Chemical / Material Compatibility

By:

SOLUTIONS Software Corporation
Enterprise, FL 32725 USA

http://www.env-sol.com

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1-Butene, 2-Ethyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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1-Chlorol 1 Nitro Ethane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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1-Chloronaphthalene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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1-Nitropropane

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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302 STAINLESS STEEL (A-K)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetaldehyde	No Effect
Acetamide	Minor Effect
Acetate Solvents	No Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	Minor Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	Minor Effect
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	Minor Effect
Acetic Anhydride (Boiling)	No Effect
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	No Effect
Acetyl Chloride	No Effect
Acetyl Salicylic Acid	Minor Effect
Acetylene (Ethyne)	No Effect
Acrolein (Acrylaldehyde)	Minor Effect
Acrylonitrile	No Effect
Adipic Acid	No Effect
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect
Aerosafe 2300W	No Effect

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Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- No Effect
Alcohol, Butyl ---------- No Effect
Alcohol, Ethyl ---------- No Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Allyl Alcohol ---------- No Effect
Allyl Chloride ---------- Minor Effect
Alum ---------- **Severe Effect**
Aluminum (Chrome 5% Sol.) ---------- No Effect
Aluminum Acetate ---------- Minor Effect
Aluminum Chloride ---------- Moderate Effect
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitride ---------- Minor Effect
Aluminum Potassium Sulfate ---------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate, 10% Boiling ------ Minor Effect
Aluminum Potassium Sulfate, 2% Solution ------ No Effect
Aluminum Potassium Sulfate, Saturated Boiling **Severe Effect**
Aluminum Sulfate ---------- Minor Effect
AMERSEP MP-7 ---------- **Severe Effect**
Amines ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- Minor Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Acetate ---------- No Effect
Ammonium Bicarbonate ---------- No Effect

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Ammonium Bifluoride, 10% ---------- **Severe Effect**
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- Moderate Effect
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Chloride, 10% Solution Boiling ------ Minor Effect
Ammonium Chloride, 28% Solution Boiling ------ Minor Effect
Ammonium Chloride, 50% Solution Boiling ------ Minor Effect
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- Minor Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Hydroxide, 3 Molar ---------- Minor Effect
Ammonium Hydroxide, Concentrated ---------- Minor Effect
Ammonium Monophosphate ---------- Minor Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Persulfate ---------- Minor Effect
Ammonium Persulfate, 10% ---------- Minor Effect
Ammonium Persulfate, 5% ---------- Minor Effect
Ammonium Phosphate ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Sulphate 10% Boiling ---------- Minor Effect
Ammonium Sulphate Plus 5% Sulfuric Acid ------ Minor Effect
Ammonium Sulphate Saturated (Boiling) -------- Minor Effect
Ammonium Sulphite (Boiling) ---------- No Effect
Ammonium Thiocyanate ---------- Minor Effect
Ammonium Thiosulfate ---------- No Effect
Ammonium Triphosphate ---------- No Effect
Amyl Acetate ---------- Minor Effect

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Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- Minor Effect
Aniline Dyes ---------- No Effect
Aniline Hydrochloride ---------- **Severe Effect**
Aniline Sulfite ---------- Minor Effect
Animal Fats & Oils ---------- No Effect
Animal Gelatin ---------- No Effect
Anthraquinone ---------- Minor Effect
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Trichloride ---------- **Severe Effect**
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- Minor Effect
Arsenic Acid ---------- Minor Effect
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- No Effect
Ascorbic Acid ---------- No Effect
Askarel ---------- No Effect
Asphalt ---------- No Effect
Asphalt Topping ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Banana Oil ---------- No Effect
Barbecue Sauce ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Moderate Effect

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Barium Chloride Aqueous Solution (Hot) ------- Minor Effect
Barium Chloride, 5% ------------------------- No Effect
Barium Cyanide ------------------------------ No Effect
Barium Hydrate ------------------------------ No Effect
Barium Hydroxide ---------------------------- Minor Effect
Barium Nitrate ------------------------------ No Effect
Barium Sulfate ------------------------------ Minor Effect
Barium Sulfate Aqueous Solution (Hot) -------- No Effect
Barium Sulfide ------------------------------ Minor Effect
Beef Extract -------------------------------- No Effect
Beer -- No Effect
Beer (Alcohol Ind.) ------------------------- No Effect
Beer (Beverage Ind.) ------------------------ No Effect
Beet Sugar Liquids -------------------------- No Effect
Beet Sugar Liquors -------------------------- No Effect
Benzaldehyde -------------------------------- No Effect
Benzene ------------------------------------- Minor Effect
Benzene Sulfonic Acid ----------------------- No Effect
Benzine (Gasoline) -------------------------- No Effect
Benzoic Acid -------------------------------- Minor Effect
Benzol -------------------------------------- Minor Effect
Benzophenone -------------------------------- Minor Effect
Benzyl Acetate ------------------------------ No Effect
Benzyl Alcohol ------------------------------ Minor Effect
Benzyl Benzoate ----------------------------- Minor Effect
Benzyl Chloride ----------------------------- Minor Effect
Benzyl Dichloride --------------------------- No Effect
Bismuth Subcarbonate ------------------------ Minor Effect
Black Sulfate Liquor ------------------------ No Effect
Blast Furnace Gas --------------------------- No Effect
Bleaching Powder (Wet) ---------------------- No Effect
Blood (Meat Juices-Cold) -------------------- Minor Effect
Borax --------------------------------------- No Effect
Bordeaux Mixture ---------------------------- No Effect
Boric Acid ---------------------------------- Minor Effect
Brake Fluid (Non-Petroleum) ----------------- No Effect

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Brewery Slop ---------- No Effect
Brine ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- No Effect
Bromochloromethane ---------- Minor Effect
Bromotoluene ---------- No Effect
Bronzing Liquid ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Cellosolve ---------- No Effect
Butyl Chloride ---------- Minor Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyric Acid ---------- Minor Effect
Butyric Anhydride ---------- No Effect
Cadmium Sulfate (25% Concentration) ---------- No Effect
Calcium Acetate ---------- Minor Effect
Calcium Bisulfate ---------- Moderate Effect
Calcium Bisulfide ---------- Minor Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- Minor Effect

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Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- Moderate Effect
Calcium Hydroxide ---------- Minor Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hydroxide, 20% (Boiling) ---------- No Effect
Calcium Hydroxide, 50% (Boiling) ---------- **Severe Effect**
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Nitrate ---------- Minor Effect
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- Minor Effect
Calcium Sulfate - Saturated ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Calgon ---------- No Effect
Camphor ---------- Minor Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Capryl Alcohol ---------- No Effect
Caprylic Acid (Caprillic Acid) ---------- No Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- No Effect
Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- No Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- Minor Effect
Carbon Tetrachloride-Aqueous Solution 5%-10% - **Severe Effect**
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonated Water ---------- Minor Effect
Carbonic Acid ---------- Minor Effect
Castor Oil ---------- No Effect
Catsup ---------- Minor Effect
Caustic ---------- No Effect

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Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorbenzol (Conc. Pure) ---------- No Effect
Chloric Acid ---------- **Severe Effect**
Chlorinated Lime, 35% (Bleach) ---------- No Effect
Chlorinated Water, Saturate ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - 100 Degrees C ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine Water ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- Minor Effect
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobromomethane ---------- Minor Effect
Chlorobutadiene ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorotoluene ---------- Minor Effect
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chrome Plating Solutions ---------- No Effect
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- Minor Effect
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**

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Chromium Plating Bath ---------- No Effect
Chromium Sulfate (Basic) ---------- Minor Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Acid, 15% Solution ---------- No Effect
Citric Acid, 15% Solution (Boiling) ---------- Minor Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- No Effect
Citrus Pectin Liquor ---------- No Effect
Clove Oil ---------- No Effect
Coca Cola Syrup ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copal Varnish ---------- No Effect
Copper Acetate ---------- No Effect
Copper Acetate, Saturated Solution ---------- No Effect
Copper Chloride ---------- Moderate Effect
Copper Chloride, 1% ---------- Minor Effect
Copper Chloride, 5% Solution ---------- **Severe Effect**
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate ---------- Minor Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Sulfate ---------- Minor Effect
Copper Sulfate, 10% ---------- Minor Effect
Copper Sulfate, 5% ---------- Minor Effect
Copper Sulfate, 50% ---------- Minor Effect
Copper Sulphate, Saturated Solution (Boiling) No Effect
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- Minor Effect
Cream ---------- No Effect

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Creosols ---------- No Effect
Cresylic Acid ---------- No Effect
Crotonaldehyde ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
D.D.T. ---------- No Effect
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- **Severe Effect**
Dextrose ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Dimethyl Formamide ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisobutylene ---------- Minor Effect
Diisopropyl Ketone ---------- No Effect
Dioctyl Phthalate ---------- No Effect

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Dioctyl Sebecate ---------- No Effect
Dioxane ---------- No Effect
Dipentene ---------- No Effect
Diphenyl ---------- Minor Effect
Diphenyl Oxide ---------- No Effect
Dispersing Oil #10 ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- Minor Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Amine ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellulose ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Mercaptan ---------- Minor Effect
Ethyl Propionate ---------- No Effect

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Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- Minor Effect
Ethylene ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- Minor Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Oxide ---------- No Effect
Ethylene Trichloride ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- No Effect
Fatty Acids ---------- Minor Effect
Ferric Chloride, 1% ---------- Minor Effect
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Hydroxide ---------- No Effect
Ferric Nitrate ---------- Minor Effect
Ferric Sulfate ---------- Minor Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- Minor Effect
Ferrous Sulfate (Copperas) ---------- Minor Effect
Ferrous Sulfate (Saturated) ---------- Minor Effect
Ferrous Sulfate, 10% Solution ---------- Minor Effect
Fish Liver Oils ---------- No Effect
Fluoride (Dry) ---------- **Severe Effect**
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- Minor Effect

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Formamide ---------- Minor Effect
Formic Acid ---------- Moderate Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- Minor Effect
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fumaric Acid ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- Minor Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- No Effect

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Gelatin ---------- No Effect
Ginger Oil ---------- **Severe Effect**
Glucose ---------- No Effect
Glue ---------- Minor Effect
Glutamic Acid ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Gold Monocyanide ---------- No Effect
Grape Juice ---------- No Effect
Grapefruit Oil ---------- No Effect
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- No Effect
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexane ---------- No Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Dry Gas) ---------- **Severe Effect**
Hydrochloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**

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Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Fluoride ---------- No Effect
Hydrogen Gas ---------- No Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide Dry, Cold ---------- **Severe Effect**
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- Minor Effect
Hydroquinone ---------- Minor Effect
Hydroxyacetic Acid, 10% ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Illuminating Gas ---------- No Effect
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodoform ---------- Minor Effect
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isobutyl Chloride ---------- Minor Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isophorone ---------- No Effect
Isopropanol ---------- Minor Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- No Effect
Isopropyl Chloride ---------- No Effect
Isopropyl Ether ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect

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JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid ---------- No Effect
Lactic Acid 10% Solution (Boiling) ---------- Minor Effect
Lactic Acid, 5% Solution ---------- Minor Effect
Lactol ---------- No Effect
Lard ---------- Minor Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Latex ---------- No Effect
Lauryl Alcohol ---------- No Effect
Lead Acetate ---------- Minor Effect
Lead Chloride ---------- Minor Effect
Lead Nitrate ---------- Minor Effect
Lemon Oil ---------- No Effect
Light Grease ---------- No Effect
Lignin Liquor ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- No Effect
Lime Slurries ---------- No Effect
Lime Sulfur ---------- No Effect
Lindol ---------- No Effect
Linoleic Acid ---------- Minor Effect
Linseed Oil ---------- No Effect
Lithium Chloride ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect

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302 STAINLESS STEEL (L-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Magnesium Bilsulfite	No Effect
Magnesium Carbonate	Minor Effect
Magnesium Chloride	Minor Effect
Magnesium Hydroxide	No Effect
Magnesium Hydroxide	No Effect
Magnesium Hydroxide (Hot)	No Effect
Magnesium Nitrate	Minor Effect
Magnesium Oxide	No Effect
Magnesium Sulfate	Minor Effect
Maleic Acid	Moderate Effect
Maleic Anhydride	No Effect
Malic Acid	Minor Effect
Malt Beverages	No Effect
Manganese Chloride	Minor Effect
Maple Sugar Liquors	No Effect
Mayonnaise	Minor Effect
Mercaptan	No Effect
Mercuric Chloride	**Severe Effect**
Mercuric Chloride (Dilute Solution)	**Severe Effect**
Mercuric Cyanide	No Effect
Mercury	No Effect
Mesityl Oxide	No Effect
Methane	No Effect
Methanol (See Alcohol Methyl)	No Effect
Methyl Acetate	No Effect
Methyl Acetone	No Effect
Methyl Acrylate	No Effect
Methyl Alcohol	No Effect
Methyl Alcohol, 10%	No Effect
Methyl Amine	No Effect
Methyl Amyl Alcohol	No Effect
Methyl Benzoate	No Effect

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Methyl Bromide ---------- No Effect
Methyl Butyl Ketone ---------- No Effect
Methyl Butyrate ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- No Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- Minor Effect
Methylamine ---------- No Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
Mustard ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect
N-Pentane ---------- Minor Effect
Naptha ---------- No Effect
Naptha-Coal Tar (Benzol) ---------- No Effect
Napthalene ---------- Minor Effect

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Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Neosol ---------- No Effect
Nickel Acetate ---------- Minor Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- Minor Effect
Nickel Sulfate ---------- Minor Effect
Niter Coke ---------- Minor Effect
Nitrana ---------- No Effect
Nitric Acid ---------- No Effect
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- No Effect
Nitric Acid (Red Fuming) ---------- No Effect
Nitric Acid 3 Molar ---------- No Effect
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- Minor Effect
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect
Nitroethane ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- Minor Effect
Nitrous Gases ---------- No Effect
Nitrous Oxide ---------- Minor Effect
O-Chloronaphthalene ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
Octyl Acetate ---------- No Effect
Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect

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Oils, Crude ---------- No Effect
Oleic Acid ---------- Minor Effect
Olein ---------- No Effect
Oleum ---------- Minor Effect
Oleum (Fuming Sulfuric Acid) ---------- No Effect
Oleum Spirits ---------- No Effect
Olive Oil ---------- No Effect
Oxalic Acid ---------- Moderate Effect
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Cold ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- Minor Effect
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Paints & Solvents ---------- No Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Pentachloroethane ---------- No Effect
Pentachlorophenol ---------- No Effect
Penthane ---------- No Effect
Peppermint Oil ---------- No Effect
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- Minor Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petrolatum ---------- No Effect
Petroleum Ether ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- No Effect
Phenethyl Alcohol ---------- No Effect

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Phenol ---------- No Effect
Phenol (Carbolic Acid) ---------- Minor Effect
Phenol Sulfonic Acid ---------- Minor Effect
Phenol, 10% ---------- Minor Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphorous ---------- No Effect
Phosphorus Oxychloride ---------- **Severe Effect**
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- No Effect
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- Minor Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid ---------- Minor Effect
Picric Acid, H2O Solution ---------- No Effect
Pine Oil ---------- No Effect
Pneumatic Service ---------- No Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bromide ---------- **Severe Effect**
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Moderate Effect
Potassium Chloride, Boiling ---------- Minor Effect
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- Minor Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Minor Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanide ---------- Minor Effect

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Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Iodide ---------- Minor Effect
Potassium Nitrate ---------- Minor Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Oxalate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- Minor Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propionaldehyde ---------- No Effect
Propyl Alcohol ---------- No Effect
Propyl Nitrate ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- Minor Effect
Propylene Glycol ---------- Minor Effect
Propylene Oxide ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Minor Effect
Quaternary Ammonium Salts ---------- No Effect

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Quench Oil ---------- No Effect
Quinine Bisulphate (Dry) ---------- Minor Effect
Quinine Sulphate (Dry) ---------- No Effect
Rape-Seed Oil ---------- No Effect
Resins and Rosins ---------- No Effect
Rose Oil ---------- No Effect
Rosin ---------- Minor Effect
Rosin Emulsion ---------- No Effect
Rubber Latex Emulsions ---------- No Effect
Rubber Solvents ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Sal Ammoniac ---------- No Effect
Sal Soda ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- Minor Effect
Silver Chloride ---------- **Severe Effect**
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- Minor Effect
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Minor Effect

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Sodium Acid Sulfate ---------- **Severe Effect**
Sodium Aluminate ---------- Minor Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- Minor Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect
Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chloride, 5% @ 150 F ---------- Minor Effect
Sodium Chloride, 5% Solution ---------- Minor Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chloride, Saturated Solution (Boiling) Minor Effect
Sodium Chromate ---------- Minor Effect
Sodium Citrate ---------- Minor Effect
Sodium Cyanide ---------- Minor Effect
Sodium Ferrocyanide ---------- Minor Effect
Sodium Fluoride ---------- Minor Effect
Sodium Fluoride, 5% ---------- Minor Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) --------- No Effect
Sodium Hydroxide, 50% Solution (Cold) -------- No Effect
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Hyposulfate ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate ---------- No Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- Minor Effect

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Sodium Nitrate - Fused ---------- **Severe Effect**
Sodium Perborate ---------- Minor Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- Minor Effect
Sodium Resinate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate ---------- Minor Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- Minor Effect
Sodium Sulfite ---------- No Effect
Sodium Sulfite, 10% Solution @ 150 F ---------- Minor Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- **Severe Effect**
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- Minor Effect
Sodium Triphosphate ---------- No Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- **Severe Effect**
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Stannous Chloride, 15% ---------- **Severe Effect**
Starch ---------- Minor Effect
Steam, Above 350 F ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- Minor Effect

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Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- Minor Effect
Sulfate Green Liquor ---------- Minor Effect
Sulfite Liquors ---------- Minor Effect
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- Minor Effect
Sulfur Containing Oil (1.5%S) ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- Minor Effect
Sulfur Trioxide ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid (Aerated) No Velocity ---------- Minor Effect
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Conc) ---------- No Effect
Sulfuric Acid (Fuming) ---------- No Effect
Sulfuric Acid, 85% ---------- Minor Effect
Sulfurous Acid ---------- Moderate Effect
Sulphuric Acid, 10% Solution ---------- Minor Effect
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- Minor Effect
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- No Effect
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------- Minor Effect
Sulphurous Acid - Saturated ---------- No Effect
Sulphurous Spray ---------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Talc Oil ---------- No Effect
Tall Oil (Liquid Rosin) ---------- Minor Effect
Tallow, Molten ---------- No Effect

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Tannic Acid ---------- Minor Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- Minor Effect
Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- Minor Effect
THIO-RED ---------- **Severe Effect**
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- No Effect
Transformer Oil ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triaryl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- Minor Effect
Trichloroethylene ---------- Minor Effect
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresolphosphate ---------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Trimethylene Glycol ---------- No Effect
Triphenyl Phosphite ---------- No Effect
Trisodium Phosphate ---------- Minor Effect
Tung Oil ---------- No Effect

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Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- Minor Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Urea ---------- Minor Effect
Uric Acid ---------- Minor Effect
Urine ---------- No Effect
Vanadium Ashes ---------- No Effect
Vanadium Pentoxide ---------- No Effect
Vanilla Extract ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- No Effect
Vinyl Acetate ---------- Minor Effect
Vinyl Chloride ---------- Minor Effect
Water ---------- No Effect
Water, Acid Mine ---------- Minor Effect
Water, Brine, Process, Beverage ---------- Minor Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- Minor Effect
Waxes ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Sulfate Liquor ---------- No Effect
Wood Alcohol ---------- No Effect

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Wood Oil ---------- No Effect
Wort, Distillery ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- Minor Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Chloride, 5% Solution ---------- Minor Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Nitrate ---------- No Effect
Zinc Sulfate ---------- Minor Effect
Zinc Sulfate, 25% Solution (Boiling) ---------- Minor Effect
Zinc Sulfate, 5% Solution ---------- Minor Effect
Zinc Sulfate, Saturated Solution ---------- Minor Effect

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304 STAINLESS STEEL (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetaldehyde	No Effect
Acetamide	Minor Effect
Acetate Solvents	Minor Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	Minor Effect
Acetic Acid, 5%	Minor Effect
Acetic Acid, 50%	Minor Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	Minor Effect
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	Minor Effect
Acetic Anhydride (Boiling)	No Effect
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	No Effect
Acetyl Chloride	No Effect
Acetyl Salicylic Acid	Minor Effect
Acetylene (Ethyne)	No Effect
Acrolein (Acrylaldehyde)	Minor Effect
Acrylonitrile	No Effect
Adipic Acid	No Effect
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect

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Aerosafe 2300W ---------- No Effect
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- No Effect
Alcohol, Benzyl ---------- No Effect
Alcohol, Butyl ---------- No Effect
Alcohol, Diacetone ---------- No Effect
Alcohol, Ethyl ---------- No Effect
Alcohol, Hexyl ---------- No Effect
Alcohol, Isobutyl ---------- No Effect
Alcohol, Isopropyl ---------- No Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Allyl Alcohol ---------- No Effect
Allyl Chloride ---------- Minor Effect
Alum ---------- **Severe Effect**
Aluminum (Chrome 5% Sol.) ---------- No Effect
Aluminum Acetate ---------- Minor Effect
Aluminum Chloride ---------- **Severe Effect**
Aluminum Chloride, 20% ---------- **Severe Effect**
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitride ---------- Minor Effect
Aluminum Potassium Sulfate ---------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ **Severe Effect**
Aluminum Potassium Sulfate, 10% Boiling ------ Minor Effect
Aluminum Potassium Sulfate, 2% Solution ------ No Effect
Aluminum Potassium Sulfate, Saturated Boiling **Severe Effect**

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Aluminum Sulfate ---------- Moderate Effect
AMERSEP MP-7 ---------- **Severe Effect**
Amines ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- Minor Effect
Ammonia, Liquids ---------- Minor Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Acetate ---------- No Effect
Ammonium Bicarbonate ---------- No Effect
Ammonium Bifluoride, 10% ---------- Moderate Effect
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- No Effect
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Chloride, 10% Solution Boiling ------ Minor Effect
Ammonium Chloride, 28% Solution Boiling ------ Minor Effect
Ammonium Chloride, 50% Solution Boiling ------ Minor Effect
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- Minor Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Hydroxide, 3 Molar ---------- Minor Effect
Ammonium Hydroxide, Concentrated ---------- Minor Effect
Ammonium Monophosphate ---------- Minor Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Persulfate ---------- Minor Effect
Ammonium Persulfate, 10% ---------- Minor Effect
Ammonium Persulfate, 5% ---------- Minor Effect
Ammonium Phosphate ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**

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Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Sulphate 10% Boiling ---------- Minor Effect
Ammonium Sulphate Plus 5% Sulfuric Acid ------ Minor Effect
Ammonium Sulphate Saturated (Boiling) -------- Minor Effect
Ammonium Sulphite (Boiling) ---------- No Effect
Ammonium Thiocyanate ---------- Minor Effect
Ammonium Thiosulfate ---------- No Effect
Ammonium Triphosphate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- Moderate Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- No Effect
Aniline Dyes ---------- No Effect
Aniline Hydrochloride ---------- **Severe Effect**
Aniline Oil ---------- No Effect
Aniline Sulfite ---------- Minor Effect
Animal Fats & Oils ---------- No Effect
Animal Gelatin ---------- No Effect
Anise Oil ---------- No Effect
Anthraquinone ---------- Minor Effect
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Trichloride ---------- **Severe Effect**
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- Minor Effect
Arsenic Acid ---------- Minor Effect
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- No Effect
Ascorbic Acid ---------- No Effect
Askarel ---------- No Effect
Asphalt ---------- No Effect
Asphalt Topping ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect

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ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Banana Oil ---------- No Effect
Barbecue Sauce ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- Minor Effect
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- No Effect
Barium Hydrate ---------- No Effect
Barium Hydroxide ---------- Moderate Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfate Aqueous Solution (Hot) -------- No Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- No Effect
Beef Extract ---------- No Effect
Beer ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzene Sulfonic Acid ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- No Effect
Benzol ---------- Minor Effect
Benzophenone ---------- Minor Effect
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- Minor Effect

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Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- Minor Effect
Benzyl Dichloride ---------- No Effect
Bismuth Subcarbonate ---------- Minor Effect
Black Sulfate Liquor ---------- No Effect
Blast Furnace Gas ---------- No Effect
Bleaching Powder (Wet) ---------- No Effect
Blood (Meat Juices-Cold) ---------- Minor Effect
Bone Oil ---------- No Effect
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- Minor Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- No Effect
Bromochloromethane ---------- Minor Effect
Bromotoluene ---------- No Effect
Bronzing Liquid ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butanol ---------- No Effect
Butter ---------- Minor Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect

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Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Cellosolve ---------- No Effect
Butyl Chloride ---------- Minor Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyric Acid ---------- Minor Effect
Butyric Anhydride ---------- No Effect
Cadmium Sulfate (25% Concentration) ---------- No Effect
Calcium Acetate ---------- Minor Effect
Calcium Bisulfate ---------- **Severe Effect**
Calcium Bisulfide ---------- Minor Effect
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- Moderate Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hydroxide, 20% (Boiling) ---------- No Effect
Calcium Hydroxide, 50% (Boiling) ---------- **Severe Effect**
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- Minor Effect
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfate - Saturated ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Calgon ---------- No Effect
Camphor ---------- Minor Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Capryl Alcohol ---------- No Effect
Caprylic Acid (Caprillic Acid) ---------- No Effect

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Carbitol ---------- Minor Effect
Carbolic Acid ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbon Tetrachloride-Aqueous Solution 5%-10% - **Severe Effect**
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Casein ---------- Minor Effect
Castor Oil ---------- No Effect
Catsup ---------- Minor Effect
Caustic ---------- No Effect
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorbenzol (Conc. Pure) ---------- No Effect
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- No Effect
Chlorinated Lime, 35% (Bleach) ---------- No Effect
Chlorinated Water, Saturate ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - 100 Degrees C ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect

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Chlorobromomethane ---------- Minor Effect
Chlorobutadiene ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorotoluene ---------- Minor Effect
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chrome Plating Solutions ---------- No Effect
Chromic Acid, 10% ---------- Minor Effect
Chromic Acid, 30% ---------- Minor Effect
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- Minor Effect
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromium Plating Bath ---------- No Effect
Chromium Sulfate (Basic) ---------- Minor Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, 15% Solution ---------- No Effect
Citric Acid, 15% Solution (Boiling) ---------- Minor Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- No Effect
Citrus Pectin Liquor ---------- No Effect
Clove Oil ---------- No Effect
Coca Cola Syrup ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copal Varnish ---------- No Effect
Copper Acetate ---------- No Effect

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Copper Acetate, Saturated Solution ---------- No Effect
Copper Chloride ---------- **Severe Effect**
Copper Chloride, 1% ---------- Minor Effect
Copper Chloride, 5% Solution ---------- **Severe Effect**
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Sulfate ---------- Minor Effect
Copper Sulfate, 10% ---------- Minor Effect
Copper Sulfate, 5% ---------- Minor Effect
Copper Sulfate, 50% ---------- Minor Effect
Copper Sulphate, Saturated Solution (Boiling) No Effect
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Creosols ---------- No Effect
Cresol ---------- No Effect
Cresylic Acid ---------- No Effect
Crotonaldehyde ---------- No Effect
Crude Oil ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyanic Acid ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
D.D.T. ---------- No Effect
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- **Severe Effect**
Dextrose ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- No Effect

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Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichlorethane ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Dimethyl Formamide ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisobutylene ---------- Minor Effect
Diisopropyl Ketone ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dioxane ---------- No Effect
Dipentene ---------- No Effect
Diphenyl ---------- Minor Effect
Diphenyl Oxide ---------- No Effect
Dispersing Oil #10 ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect

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Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Amine ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellulose ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Mercaptan ---------- Minor Effect
Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- **Severe Effect**
Ethylene ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect

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Ethylene Oxide ---------- No Effect
Ethylene Trichloride ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- No Effect
Fatty Acids ---------- Minor Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- Minor Effect
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Hydroxide ---------- No Effect
Ferric Nitrate ---------- Minor Effect
Ferric Sulfate ---------- Minor Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- No Effect
Ferrous Sulfate (Copperas) ---------- Minor Effect
Ferrous Sulfate (Saturated) ---------- Minor Effect
Ferrous Sulfate, 10% Solution ---------- Minor Effect
Fish Liver Oils ---------- No Effect
Fluoboric Acid ---------- **Severe Effect**
Fluoride (Dry) ---------- **Severe Effect**
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- Minor Effect
Formamide ---------- Minor Effect
Formic Acid ---------- No Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- Minor Effect
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect

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Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Fumaric Acid ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- No Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- No Effect
Gelatin ---------- No Effect
Ginger Oil ---------- **Severe Effect**
Glucose ---------- No Effect
Glue ---------- Minor Effect
Glutamic Acid ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Gold Monocyanide ---------- No Effect

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Grape Juice ---------- No Effect
Grapefruit Oil ---------- No Effect
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- No Effect
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexane ---------- No Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Dry Gas) ---------- Moderate Effect
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrochloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- No Effect
Hydrocyanic Acid (Gas 10%) ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**

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Hydrofluoric Acid, 75% ---------- Moderate Effect
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Fluoride ---------- No Effect
Hydrogen Gas ---------- No Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 10% ---------- Moderate Effect
Hydrogen Sulfide (Dry) ---------- Moderate Effect
Hydrogen Sulfide Dry, Cold ---------- **Severe Effect**
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- Minor Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroquinone ---------- Minor Effect
Hydroxyacetic Acid, 10% ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Illuminating Gas ---------- No Effect
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodoform ---------- **Severe Effect**
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isobutyl Chloride ---------- Minor Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isophorone ---------- No Effect
Isopropanol ---------- Minor Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- No Effect
Isopropyl Chloride ---------- No Effect
Isopropyl Ether ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect

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JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect

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304 STAINLESS STEEL (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kerosene	No Effect
Ketones	No Effect
Keystone #87HX-Grease	No Effect
Lacquer Solvents	No Effect
Lacquers	No Effect
Lacquers	No Effect
Lactic Acid	No Effect
Lactic Acid 10% Solution (Boiling)	Minor Effect
Lactic Acid, 5% Solution	Minor Effect
Lactol	No Effect
Lard	No Effect
Lard Oil (Cold)	No Effect
Lard Oil (Hot)	No Effect
Latex	No Effect
Lauryl Alcohol	No Effect
Lead Acetate	Minor Effect
Lead Chloride	Minor Effect
Lead Nitrate	Minor Effect
Lemon Oil	No Effect
Light Grease	No Effect
Lignin Liquor	No Effect
Ligroin	No Effect
Lime	No Effect
Lime Slurries	No Effect
Lime Sulfur	No Effect
Lindol	No Effect
Linoleic Acid	Minor Effect
Linseed Oil	No Effect
Lithium Chloride	No Effect
Lubricants	No Effect
Lubricating Oil Di-Ester	No Effect
Lubricating Oil Petroleum Base	No Effect

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Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Bilsulfite ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- Minor Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- No Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- Minor Effect
Maple Sugar Liquors ---------- No Effect
Mash ---------- No Effect
Mayonnaise ---------- Minor Effect
Melamine ---------- **Severe Effect**
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercuric Cyanide ---------- No Effect
Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Amine ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Butyl Ketone ---------- No Effect

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Methyl Butyrate ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- No Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- Minor Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
Mustard ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect
N-Pentane ---------- Minor Effect
Naptha ---------- No Effect
Naptha-Coal Tar (Benzol) ---------- No Effect
Napthalene ---------- No Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect

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Neosol ---------- No Effect
Nickel Acetate ---------- Minor Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- Minor Effect
Nickel Sulfate ---------- Minor Effect
Niter Coke ---------- Minor Effect
Nitrana ---------- No Effect
Nitric Acid ---------- No Effect
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- No Effect
Nitric Acid 3 Molar ---------- No Effect
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- Minor Effect
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- No Effect
Nitroethane ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- Minor Effect
Nitrous Gases ---------- No Effect
Nitrous Oxide ---------- Minor Effect
O-Chloronaphthalene ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
Octyl Acetate ---------- No Effect
Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect
Oils, Crude ---------- No Effect
Oleic Acid ---------- No Effect
Olein ---------- No Effect

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Oleum (Fuming Sulfuric Acid) ---------- No Effect
Oleum Spirits ---------- No Effect
Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oxalic Acid ---------- No Effect
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Cold ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- Minor Effect
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Paints & Solvents ---------- No Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Pentachloroethane ---------- No Effect
Pentachlorophenol ---------- No Effect
Penthane ---------- Moderate Effect
Peppermint Oil ---------- No Effect
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- No Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petrolatum ---------- No Effect
Petroleum Ether ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- No Effect
Phenethyl Alcohol ---------- No Effect
Phenol ---------- No Effect
Phenol (Carbolic Acid) ---------- No Effect
Phenol Sulfonic Acid ---------- Minor Effect

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Phenol, 10% ---------- No Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphoric Anhydride (Dry or Moist) ---------- No Effect
Phosphoric Anhydride (Molten) ---------- No Effect
Phosphorous ---------- No Effect
Phosphorus Oxychloride ---------- **Severe Effect**
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- No Effect
Photographic Solutions ---------- Moderate Effect
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- No Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid ---------- No Effect
Picric Acid, H2O Solution ---------- No Effect
Pine Oil ---------- No Effect
Pneumatic Service ---------- No Effect
Potash ---------- No Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- **Severe Effect**
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- No Effect
Potassium Chloride, Boiling ---------- Minor Effect
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Minor Effect

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Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% ---------- Minor Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Iodide ---------- Minor Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Oxalate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- Minor Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propionaldehyde ---------- No Effect
Propyl Alcohol ---------- No Effect
Propyl Nitrate ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- Minor Effect
Propylene Glycol ---------- Minor Effect
Propylene Oxide ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- Moderate Effect
Pyrogallic Acid ---------- No Effect

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Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Minor Effect
Quaternary Ammonium Salts ---------- No Effect
Quench Oil ---------- No Effect
Quinine Bisulphate (Dry) ---------- Minor Effect
Quinine Sulphate (Dry) ---------- No Effect
Rape-Seed Oil ---------- No Effect
Resins and Rosins ---------- No Effect
Rose Oil ---------- No Effect
Rosin ---------- Minor Effect
Rosin Emulsion ---------- No Effect
Rubber Latex Emulsions ---------- No Effect
Rubber Solvents ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Sal Ammoniac ---------- No Effect
Sal Soda ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- Moderate Effect
Silver Chloride ---------- **Severe Effect**
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- Minor Effect

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Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Acid Sulfate ---------- **Severe Effect**
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- Minor Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect
Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chloride, 5% @ 150 F ---------- Minor Effect
Sodium Chloride, 5% Solution ---------- Minor Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chloride, Saturated Solution (Boiling) Minor Effect
Sodium Chromate ---------- Minor Effect
Sodium Citrate ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- Minor Effect
Sodium Fluoride ---------- Moderate Effect
Sodium Fluoride, 5% ---------- Minor Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) --------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) -------- No Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- Moderate Effect
Sodium Hypochlorite, 20% ---------- **Severe Effect**

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Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Hyposulfate ---------- No Effect
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Nitrate - Fused ---------- **Severe Effect**
Sodium Perborate ---------- Minor Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- Minor Effect
Sodium Resinate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- Minor Effect
Sodium Sulfite ---------- Moderate Effect
Sodium Sulfite, 10% Solution @ 150 F --------- Minor Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- **Severe Effect**
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- Minor Effect
Sodium Triphosphate ---------- No Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- **Severe Effect**
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- **Severe Effect**

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Stannic Chloride, 50% ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Stannous Chloride, 15% ---------- **Severe Effect**
Starch ---------- No Effect
Steam, Above 350 F ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- Minor Effect
Sulfate Green Liquor ---------- Minor Effect
Sulfate Liquors ---------- Moderate Effect
Sulfite Liquors ---------- Minor Effect
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Containing Oil (1.5%S) ---------- Minor Effect
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- Minor Effect
Sulfur Trioxide ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid (Aerated) No Velocity ---------- Minor Effect
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Conc) ---------- No Effect
Sulfuric Acid (Fuming) ---------- No Effect
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfuric Acid, 85% ---------- Minor Effect
Sulfurous Acid ---------- Moderate Effect
Sulphuric Acid, 10% Solution ---------- Minor Effect
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- Minor Effect
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- No Effect
Sulphuric Acid,

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Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------- Minor Effect
Sulphurous Acid - Saturated ---------- No Effect
Sulphurous Spray ---------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Talc Oil ---------- No Effect
Tall Oil (Liquid Rosin) ---------- Minor Effect
Tallow ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tanning Oil ---------- No Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- No Effect
Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- Minor Effect
THIO-RED ---------- **Severe Effect**
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- No Effect
Transformer Oil ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triaryl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- Moderate Effect

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Trichloroethylene ---------- Minor Effect
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresolphosphate ---------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Trimethylene Glycol ---------- No Effect
Triphenyl Phosphite ---------- No Effect
Trisodium Phosphate ---------- Minor Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- No Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Urea ---------- Minor Effect
Uric Acid ---------- Minor Effect
Urine ---------- No Effect
Vanadium Ashes ---------- No Effect
Vanadium Pentoxide ---------- No Effect
Vanilla Extract ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- No Effect
Vinyl Acetate ---------- Minor Effect

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Vinyl Chloride ---------- Minor Effect
Water ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Acid Mine ---------- Minor Effect
Water, Brine, Process, Beverage ---------- Minor Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Sulfate Liquor ---------- No Effect
White Water (Paper Mill) ---------- No Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Wort, Distillery ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- Minor Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- No Effect
Zinc Chloride, 5% Solution ---------- Minor Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Nitrate ---------- No Effect
Zinc Sulfate ---------- No Effect
Zinc Sulfate, 25% Solution (Boiling) ---------- Minor Effect
Zinc Sulfate, 5% Solution ---------- Minor Effect
Zinc Sulfate, Saturated Solution ---------- Minor Effect

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316 STAINLESS STEEL (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
1-Chloronaphthalene	Minor Effect
1-Nitropropane	No Effect
Acetaldehyde	No Effect
Acetamide	**Severe Effect**
Acetate Solvents	No Effect
Acetic Acid	No Effect
Acetic Acid 100% Boiling	Minor Effect
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	Minor Effect
Acetic Acid, 100% Solution	Minor Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 50% Boiling	Minor Effect
Acetic Acid, 80%	Minor Effect
Acetic Acid, 80% Boiling	Minor Effect
Acetic Acid, 95%	**Severe Effect**
Acetic Acid, Crude	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetic Anhydride (Boiling)	No Effect
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	Minor Effect
Acetyl Chloride	Minor Effect
Acetyl Salicylic Acid	Minor Effect
Acetylene (Ethyne)	No Effect

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Acetylene Tetrabromide ---------- No Effect
Acrolein (Acrylaldehyde) ---------- Minor Effect
Acrylonitrile ---------- No Effect
Adipic Acid ---------- Minor Effect
Aero Lubriplate ---------- No Effect
Aerosafe 2300 ---------- No Effect
Aerosafe 2300W ---------- No Effect
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- No Effect
Alcohol, Benzyl ---------- No Effect
Alcohol, Butyl ---------- No Effect
Alcohol, Diacetone ---------- No Effect
Alcohol, Ethyl ---------- No Effect
Alcohol, Hexyl ---------- No Effect
Alcohol, Isobutyl ---------- No Effect
Alcohol, Isopropyl ---------- No Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Allyl Alcohol ---------- No Effect
Allyl Chloride ---------- Minor Effect
Alum ---------- Minor Effect
Aluminum (Chrome 5% Sol.) ---------- No Effect
Aluminum Acetate ---------- Minor Effect
Aluminum Chloride ---------- **Severe Effect**
Aluminum Chloride, 20% ---------- Moderate Effect
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitrate ---------- No Effect

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Aluminum Nitride ---------- Minor Effect
Aluminum Phosphate ---------- No Effect
Aluminum Potassium Sulfate ---------- Minor Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ No Effect
Aluminum Potassium Sulfate, 10% Boiling ------ Minor Effect
Aluminum Potassium Sulfate, 2% Solution ------ No Effect
Aluminum Potassium Sulfate, Saturated Boiling **Severe Effect**
Aluminum Sulfate ---------- Minor Effect
Alums ---------- **Severe Effect**
AMERSEP MP-7 ---------- No Effect
Amines ---------- No Effect
Ammonia Liquors ---------- No Effect
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Aqueous 30% ---------- No Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Acetate ---------- No Effect
Ammonium Bicarbonate ---------- Minor Effect
Ammonium Bifluoride, 10% ---------- Minor Effect
Ammonium Carbonate ---------- Moderate Effect
Ammonium Casenite ---------- No Effect
Ammonium Chloride ---------- **Severe Effect**
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Chloride, 10% Solution Boiling ------ Minor Effect
Ammonium Chloride, 50% Solution Boiling ------ Minor Effect
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- Minor Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Hydroxide, 3 Molar ---------- Minor Effect
Ammonium Hydroxide, Concentrated ---------- Minor Effect
Ammonium Metaphosphate ---------- Minor Effect
Ammonium Monophosphate ---------- Minor Effect
Ammonium Nitrate ---------- No Effect

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Ammonium Nitrite ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Persulfate ---------- Minor Effect
Ammonium Persulfate, 10% ---------- Minor Effect
Ammonium Persulfate, 5% ---------- Minor Effect
Ammonium Phosphate ---------- Moderate Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- Minor Effect
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- Minor Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Sulphate 10% Boiling ---------- No Effect
Ammonium Sulphate Saturated (Boiling) -------- No Effect
Ammonium Sulphite (Boiling) ---------- No Effect
Ammonium Thiocyanate ---------- Minor Effect
Ammonium Thiosulfate ---------- No Effect
Ammonium Triphosphate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- Minor Effect
Amyl Phenol ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- Minor Effect
Aniline Dyes ---------- Minor Effect
Aniline Hydrochloride ---------- **Severe Effect**
Aniline Oil ---------- No Effect
Aniline Sulfite ---------- Minor Effect
Animal Fats & Oils ---------- No Effect
Animal Gelatin ---------- No Effect
Anise Oil ---------- No Effect
Anisole ---------- Minor Effect
Anthraquinone ---------- Minor Effect
Anti-Freeze (Alcohol Base) ---------- No Effect

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Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Pentachloride ---------- No Effect
Antimony Trichloride ---------- **Severe Effect**
Aqua Ammonia ---------- Minor Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- Minor Effect
Aroclor ---------- No Effect
Aromatic Hydrocarbons ---------- Minor Effect
Aromatic Solvents ---------- No Effect
Arsenic Acid ---------- **Severe Effect**
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- No Effect
Ascorbic Acid ---------- No Effect
Askarel ---------- No Effect
Asphalt ---------- No Effect
Asphalt Topping ---------- No Effect
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- No Effect
ASTM, Red Motor Fuel C ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Banana Oil ---------- No Effect
Barbecue Sauce ---------- No Effect
Barium Carbonate ---------- Minor Effect
Barium Chloride ---------- Moderate Effect
Barium Chloride Aqueous Solution (Hot) ------- Minor Effect
Barium Chloride Dihydrate ---------- Minor Effect
Barium Chloride, 5% ---------- No Effect

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Barium Cyanide ---------- No Effect
Barium Hydrate ---------- No Effect
Barium Hydroxide ---------- Moderate Effect
Barium Nitrate ---------- Minor Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfate Aqueous Solution (Hot) -------- No Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- No Effect
Beef Extract ---------- No Effect
Beer ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzene Sulfonic Acid ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- Moderate Effect
Benzol ---------- No Effect
Benzoyl Chloride ---------- Minor Effect
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- Minor Effect
Benzyl Dichloride ---------- No Effect
Bismuth Subcarbonate ---------- Minor Effect
Black Sulfate Liquor ---------- No Effect
Blast Furnace Gas ---------- No Effect
Bleach, 12.5% Active Chlorine ---------- **Severe Effect**
Bleaching Powder (Wet) ---------- **Severe Effect**
Blood (Meat Juices-Cold) ---------- No Effect
Bone Oil ---------- No Effect
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- Minor Effect
Brake Fluid ---------- No Effect

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Brake Fluid (Non-Petroleum) ---------- No Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Brewery Shop ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Trifluoride ---------- Minor Effect
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- No Effect
Bromochloromethane ---------- Minor Effect
Bromotoluene ---------- No Effect
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Bronzing Liquid ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Amine ---------- No Effect
Butyl Benzoate ---------- Minor Effect
Butyl Butyrate ---------- No Effect
Butyl Cellosolve ---------- No Effect

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Butyl Chloride ---------- Minor Effect
Butyl Ether ---------- No Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyraldehyde ---------- No Effect
Butyric Acid ---------- Moderate Effect
Butyric Anhydride ---------- No Effect
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- No Effect
Cadmium Sulfate (25% Concentration) ---------- No Effect
Calcium Acetate ---------- Minor Effect
Calcium Acetate Hydrate ---------- Minor Effect
Calcium Bisulfate ---------- No Effect
Calcium Bisulfide ---------- Minor Effect
Calcium Bisulfite ---------- Moderate Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hydroxide, 20% (Boiling) ---------- No Effect
Calcium Hydroxide, 30% Boiling ---------- Moderate Effect
Calcium Hydroxide, 50% (Boiling) ---------- Minor Effect
Calcium Hypochlorite ---------- Moderate Effect
Calcium Hypochlorite, 5% 70 F ---------- Minor Effect
Calcium Nitrate ---------- Minor Effect
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfate - Saturated ---------- No Effect
Calcium Sulfide ---------- Minor Effect
Calcium Sulfite ---------- No Effect
Calgon ---------- No Effect
Camphor ---------- Minor Effect
Cane Juice ---------- No Effect

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Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Capryl Alcohol ---------- No Effect
Caprylic Acid ---------- No Effect
Caprylic Acid (Caprillic Acid) ---------- No Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- Minor Effect
Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- Moderate Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- Minor Effect
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonated Beverages ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Casein ---------- Minor Effect
Castor Oil ---------- No Effect
Catsup ---------- Minor Effect
Caustic ---------- No Effect
Caustic Soda ---------- No Effect
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
Cellulose Acetate ---------- No Effect
Cellulube Hydraulic Fluids ---------- No Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorbenzol (Conc. Pure) ---------- No Effect
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- No Effect
Chlorinated Lime ---------- No Effect
Chlorinated Lime, 35% (Bleach) ---------- No Effect
Chlorinated Water, Saturate ---------- Moderate Effect

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Chlorine ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - 100 Degrees C ---------- **Severe Effect**
Chlorine Gas - Dry ---------- Minor Effect
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine Water ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- Minor Effect
Chlorine, Liquid, Anhydrous ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobromomethane ---------- Minor Effect
Chlorobutadiene ---------- Minor Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorothene ---------- No Effect
Chlorotoluene ---------- Minor Effect
Chlorotrifluoroethylene ---------- Minor Effect
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chrome Plating Solutions ---------- No Effect
Chromic Acid ---------- Moderate Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- Moderate Effect
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromium Plating Bath ---------- No Effect
Chromium Plating, Barrel Chrome Bath 95 F ---- **Severe Effect**
Chromium Plating, Black Chrome Bath 115 F ---- Moderate Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F Moderate Effect

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Chromium Plating, Fluoride Bath 130 F -------- **Severe Effect**
Chromium Plating, Fluosilicate Bath 95 F ----- Moderate Effect
Chromium Sulfate (Basic) ---------- Minor Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, 15% Solution ---------- No Effect
Citric Acid, 15% Solution (Boiling) ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Citric Acid, Concentrated (Boiling) ---------- Minor Effect
Citric Acid, Hot Conc. ---------- **Severe Effect**
Citric Oils ---------- No Effect
Citrus Pectin Liquor ---------- No Effect
Clove Oil ---------- No Effect
Coca Cola Syrup ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copal Varnish ---------- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Acetate ---------- Minor Effect
Copper Acetate, Saturated Solution ---------- No Effect
Copper Chloride ---------- Moderate Effect
Copper Chloride, 1% ---------- Minor Effect
Copper Chloride, 5% Solution ---------- Minor Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- **Severe Effect**
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate ---------- No Effect
Copper Nitrate Hexahydrate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- **Severe Effect**

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Copper Plating (Acid),Copper Sulfate Bath R.T. **Severe Effect**
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- Minor Effect
Copper Sulfate, 5% ---------- No Effect
Copper Sulfate, 50% ---------- Minor Effect
Copper Sulphate, Saturated Solution (Boiling) No Effect
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Creosols ---------- No Effect
Creosote, Coal-Tar ---------- Minor Effect
Creosote, Wood-Tar ---------- Minor Effect
Cresol ---------- No Effect
Cresylic Acid ---------- No Effect
Crotonaldehyde ---------- No Effect
Crude Oil ---------- Minor Effect
Cumeme ---------- Minor Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyanic Acid ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
Cyclopentane ---------- Minor Effect
D.D.T. ---------- No Effect
Denatured Alcohol ---------- No Effect
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- Minor Effect
Dextrose ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- No Effect

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Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- Minor Effect
Dibutyl Amine ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichlorethane ---------- No Effect
Dichlorobutane ---------- Minor Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Dimethyl Formamide ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diester Synthetic Oils ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisobutylene ---------- Minor Effect
Diisooctyl Adipate ---------- No Effect
Diisopropyl Ketone ---------- No Effect
Dimethyl Ether ---------- Minor Effect
Dimethyl Phthalate ---------- Minor Effect
Dimethyl Sulfide ---------- No Effect
Dinitrotoluene ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dioxane ---------- No Effect
Dipentene ---------- No Effect

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Diphenyl ---------- Minor Effect
Diphenyl Oxide ---------- No Effect
Dipropylene Glycol ---------- No Effect
Dispersing Oil #10 ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dowtherm (Biphenyl & Phenyl Ether) ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- Minor Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Amine ---------- No Effect
Ethyl Benzene ---------- Minor Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellulose ---------- No Effect
Ethyl Cellulose ---------- Minor Effect
Ethyl Chloride ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- Minor Effect

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Ethyl Mercaptan ---------- Minor Effect
Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- **Severe Effect**
Ethylene ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- Minor Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monobutyl ---------- No Effect
Ethylene Glycol Monoethyl ---------- No Effect
Ethylene Glycol Monomethyl ---------- No Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Oxide ---------- No Effect
Ethylene Trichloride ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- Minor Effect
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Hydroxide ---------- No Effect
Ferric Nitrate ---------- Minor Effect
Ferric Sulfate ---------- Moderate Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Ferrous Chloride ---------- **Severe Effect**
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- Moderate Effect
Ferrous Sulfate (Copperas) ---------- Minor Effect
Ferrous Sulfate (Saturated) ---------- Minor Effect

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Ferrous Sulfate, 10% Solution ---------- Minor Effect
Fish Liver Oils ---------- No Effect
Fluoboric Acid ---------- Minor Effect
Fluoboric Acid ---------- Moderate Effect
Fluoboric Acid ---------- Moderate Effect
Fluoride (Dry) ---------- **Severe Effect**
Fluorine ---------- **Severe Effect**
Fluorine (Liquid) ---------- No Effect
Fluorine Gas (wet) ---------- **Severe Effect**
Fluorolube ---------- No Effect
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- Moderate Effect
Formaldehyde (Hot) ---------- No Effect
Formaldehyde, 40% ---------- Minor Effect
Formamide ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- No Effect
Formic Acid (Dilute Hot) ---------- No Effect
Freon ---------- No Effect
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- **Severe Effect**
Freon 12,13,22,114,115 ---------- **Severe Effect**
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect

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Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- **Severe Effect**
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- Minor Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Petrol) ---------- Minor Effect
Gasoline (Sour) ---------- No Effect
Gasoline (Unleaded) ---------- No Effect
Gasoline, Refined ---------- No Effect
Gelatin ---------- No Effect
Ginger Oil ---------- **Severe Effect**
Gluconic Acid ---------- No Effect
Glucose ---------- No Effect
Glue ---------- Minor Effect
Glutamic Acid ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Glycols ---------- Minor Effect
Gold Monocyanide ---------- **Severe Effect**
Gold Plating, Acid 75 F ---------- Moderate Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- Moderate Effect
Grape Juice ---------- No Effect
Grapefruit Oil ---------- No Effect
Grease ---------- No Effect

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Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- No Effect
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexanal ---------- No Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrobomic Acid, 20% ---------- **Severe Effect**
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrobromic Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- **Severe Effect**
Hydrochloric Acid (Dilute) ---------- **Severe Effect**
Hydrochloric Acid (Dry Gas) ---------- No Effect
Hydrochloric Acid 20% ---------- **Severe Effect**
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrochloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- Moderate Effect
Hydrocyanic Acid (Gas 10%) ---------- **Severe Effect**
Hydrofluoric Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**

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Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid, (Conc) ---------- No Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 50% ---------- **Severe Effect**
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Cyanide Gas ---------- No Effect
Hydrogen Fluoride ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- **Severe Effect**
Hydrogen Gas ---------- No Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 30% ---------- Minor Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- Moderate Effect
Hydrogen Sulfide ---------- Minor Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide Dry, Cold ---------- Minor Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- Moderate Effect
Hydroquinone ---------- Minor Effect
Hydroxyacetic Acid, 10% ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Illuminating Gas ---------- No Effect
Indium Sulfamate Plating R.T. ---------- Moderate Effect
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- Minor Effect

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Iodoform ---------- No Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - Moderate Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- **Severe Effect**
Iron Plating, Ferrous Sulfate Bath 150 F ----- Moderate Effect
Iron Plating, Fluoborate Bath 145 F ---------- **Severe Effect**
Iron Plating, Sulfamate 140 F ---------- **Severe Effect**
Iron Plating, Sulfate-Chloride Bath 160 F ---- **Severe Effect**
Iso Butane ---------- No Effect
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isobutyl Acetate ---------- No Effect
Isobutyl Chloride ---------- Minor Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isophorone ---------- Minor Effect
Isopropanol ---------- Minor Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- Minor Effect
Isopropyl Amine ---------- No Effect
Isopropyl Chloride ---------- No Effect
Isopropyl Ether ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Jet Fuels (JP1 to JP6) ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect

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316 STAINLESS STEEL (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kerosene	No Effect
Ketones	No Effect
Keystone #87HX-Grease	No Effect
Lacquer Solvents	No Effect
Lacquer Thinners	No Effect
Lacquers	No Effect
Lactic Acid	Minor Effect
Lactic Acid 10% Solution (Boiling)	No Effect
Lactic Acid, 25%	Moderate Effect
Lactic Acid, 5% Solution	No Effect
Lactol	No Effect
Lard	No Effect
Lard Oil	No Effect
Lard Oil (Cold)	No Effect
Lard Oil (Hot)	No Effect
Latex	No Effect
Lauryl Alcohol	No Effect
Lead Acetate	Minor Effect
Lead Chloride	Minor Effect
Lead Fluoborate Plating	Moderate Effect
Lead Nitrate	Minor Effect
Lemon Oil	No Effect
Light Grease	No Effect
Lignin Liquor	No Effect
Ligroin	No Effect
Lime	No Effect
Lime Bleach	No Effect
Lime Slurries	Minor Effect
Lime Sulfur	No Effect
Lime, 30%	No Effect
Lindol	No Effect
Linoleic Acid	No Effect

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Linseed Oil ---------- No Effect
Liquor, White ---------- No Effect
Lithium Chloride ---------- No Effect
Lubricants ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Lubricating Oils ---------- No Effect
Lye ---------- No Effect
Magnesium Bilsulfite ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- Moderate Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- No Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- **Severe Effect**
Maple Sugar Liquors ---------- No Effect
Mash ---------- No Effect
Mayonnaise ---------- No Effect
Melamine ---------- **Severe Effect**
Melamine Resins ---------- **Severe Effect**
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercuric Cyanide ---------- Minor Effect
Mercurous Nitrate ---------- Minor Effect
Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect

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Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetoacetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Alcohol, 10% ---------- No Effect
Methyl Amine ---------- No Effect
Methyl Amyl Acetate ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Butyl Ketone ---------- No Effect
Methyl Butyrate ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- No Effect
Methyl Cyclopentane ---------- No Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- Minor Effect
Methylamine ---------- No Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Mine Water ---------- Minor Effect
Mineral Oils ---------- No Effect
Mixed Acids ---------- Minor Effect
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- No Effect

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Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochlorobenzene ---------- No Effect
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
Mustard ---------- No Effect
N,N-Dimethyl Formamide ---------- No Effect
n-Butyl Acetate ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect
n-Hexane ---------- No Effect
N-Pentane ---------- Minor Effect
n-Propyl Acetate ---------- No Effect
Naphtha Coal Tar (Benzol) ---------- No Effect
Naphtha, Petroleum ---------- No Effect
Naphthalene ---------- No Effect
Naphthoic Acid ---------- No Effect
Naptha ---------- No Effect
Naptha-Coal Tar (Benzol) ---------- No Effect
Napthalene ---------- Minor Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Neosol ---------- No Effect
Nickel Acetate ---------- Minor Effect
Nickel Ammonium Sulfate ---------- No Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- No Effect
Nickel Plating, Fluoborate 100-170 F --------- Moderate Effect
Nickel Plating, High Chloride 130-160 F ------ Moderate Effect
Nickel Plating, Sulfamate 100-140 F ---------- Moderate Effect
Nickel Plating, Watts Type 115-160 F --------- Moderate Effect
Nickel Sulfate ---------- Moderate Effect

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Niter Coke ---------- No Effect
Nitrana ---------- No Effect
Nitric Acid ---------- Minor Effect
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- Minor Effect
Nitric Acid (Red Fuming) ---------- No Effect
Nitric Acid 3 Molar ---------- No Effect
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- No Effect
Nitric Acid, 10% ---------- Moderate Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 25% ---------- No Effect
Nitric Acid, 35% ---------- No Effect
Nitric Acid, 50% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 68% ---------- Moderate Effect
Nitric Acid, 70% ---------- No Effect
Nitric Acid, Anhydrous ---------- Moderate Effect
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect
Nitroethane ---------- No Effect
Nitrogen Tetroxide ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- Minor Effect
Nitrous Gases ---------- No Effect
Nitrous Oxide ---------- Minor Effect
O-Chloronaphthalene ---------- Minor Effect
o-Chlorophenol ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
o-Dichlorobenzene ---------- Minor Effect
Octyl Acetate ---------- No Effect
Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect

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Oils and Fats ---------- No Effect
Oils, Crude ---------- No Effect
Oleic Acid ---------- No Effect
Olein ---------- No Effect
Oleum ---------- No Effect
Oleum (Fuming Sulfuric Acid) ---------- No Effect
Oleum Spirits ---------- No Effect
Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oxalic Acid ---------- Moderate Effect
Oxalic Acid, 10% Solution ---------- No Effect
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- No Effect
Oxygen, Cold ---------- No Effect
Ozone ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- No Effect
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- No Effect
Paints & Solvents ---------- No Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- No Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Pentachloroethane ---------- No Effect
Pentachlorophenol ---------- No Effect
Penthane ---------- Moderate Effect
Peppermint Oil ---------- No Effect
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- No Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petrolatum ---------- No Effect
Petroleum Ether ---------- No Effect

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Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- Moderate Effect
Phenethyl Alcohol ---------- No Effect
Phenol ---------- No Effect
Phenol (Carbolic Acid) ---------- No Effect
Phenol Sulfonic Acid ---------- Minor Effect
Phenol, 10% ---------- No Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phosphoric Acid ---------- Minor Effect
Phosphoric Acid (Aerated) ---------- Minor Effect
Phosphoric Acid (Conc) ---------- No Effect
Phosphoric Acid (Crude) ---------- Moderate Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- Minor Effect
Phosphoric Acid, 10% Solution (Hot) ---------- No Effect
Phosphoric Acid, 20% ---------- No Effect
Phosphoric Acid, 25% ---------- **Severe Effect**
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- Minor Effect
Phosphoric Acid, 85% Solution ---------- Minor Effect
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphoric Anhydride (Dry or Moist) ---------- No Effect
Phosphoric Anhydride (Molten) ---------- No Effect
Phosphorous ---------- No Effect
Phosphorus Oxychloride ---------- **Severe Effect**
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- No Effect
Photographic Fixer ---------- Minor Effect
Photographic Solutions ---------- No Effect
Phthalic Acid ---------- No Effect
Phthalic Anhydride ---------- Minor Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid ---------- No Effect
Picric Acid, H2O Solution ---------- No Effect

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Pine Oil ---------- No Effect
Plating Solution, Cadmium ---------- No Effect
Plating Solution, Chrome ---------- No Effect
Plating Solution, Others ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Pneumatic Service ---------- No Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- Moderate Effect
Potassium Bisulfate ---------- No Effect
Potassium Bisulfite ---------- Minor Effect
Potassium Bromide ---------- **Severe Effect**
Potassium Carbonate ---------- Moderate Effect
Potassium Chlorate ---------- Moderate Effect
Potassium Chloride ---------- Moderate Effect
Potassium Chloride, Boiling ---------- Minor Effect
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- Minor Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Minor Effect
Potassium Dichromate 40% ---------- No Effect
Potassium Diphosphate ---------- Minor Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- Moderate Effect
Potassium Hydroxide, 27% Solution (Boiling) -- No Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% ---------- Minor Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Hypochlorite ---------- Minor Effect
Potassium Iodide ---------- Minor Effect
Potassium Monophosphates ---------- Minor Effect
Potassium Nitrate ---------- Moderate Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- Minor Effect

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Potassium Oxalate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate 10% ---------- Moderate Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- Minor Effect
Potassium Silicate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulfite ---------- Minor Effect
Potassium Sulphate ---------- Minor Effect
Potassium Triphosphate ---------- Minor Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propionaldehyde ---------- No Effect
Propionic Acid ---------- Minor Effect
Propyl Alcohol ---------- No Effect
Propyl Nitrate ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- Minor Effect
Propylene Oxide ---------- No Effect
Pydraul ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Minor Effect
Quaternary Ammonium Salts ---------- No Effect
Quench Oil ---------- No Effect
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Rape-Seed Oil ---------- No Effect
Rayon Spin Bath ---------- **Severe Effect**
Resins and Rosins ---------- No Effect

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Rhodium Plating 120 F ---------- **Severe Effect**
Rose Oil ---------- No Effect
Rosin ---------- Minor Effect
Rosin Emulsion ---------- No Effect
Rubber Latex Emulsions ---------- No Effect
Rubber Solvents ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Sal Ammoniac ---------- No Effect
Sal Soda ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- Minor Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- Moderate Effect
Sesame Seed Oil ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- No Effect
Silicone ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- Moderate Effect
Silver Chloride ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- Minor Effect
Silver Plating 80-120 F ---------- No Effect
Silver Plating Solutions ---------- No Effect
Skydrol Hydraulic Fluid ---------- No Effect
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Minor Effect

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Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- Minor Effect
Sodium Bromide ---------- Minor Effect
Sodium Carbonate ---------- Moderate Effect
Sodium Chlorate ---------- Moderate Effect
Sodium Chloride ---------- Moderate Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chloride, Saturated Solution (Boiling) No Effect
Sodium Chromate ---------- Minor Effect
Sodium Citrate ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- Minor Effect
Sodium Fluoride ---------- **Severe Effect**
Sodium Fluoride, 5% ---------- Minor Effect
Sodium Hexametaphosphate ---------- Minor Effect
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) ---------- No Effect
Sodium Hydroxide, 50% ---------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- No Effect
Sodium Hydroxide, 70% (Cold) ---------- Minor Effect
Sodium Hydroxide, 80% ---------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) ---------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- Moderate Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hyposulfate ---------- No Effect
Sodium Metaphosphate ---------- Minor Effect

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Sodium Metasilicate ---------- No Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- Moderate Effect
Sodium Nitrate - Fused ---------- Minor Effect
Sodium Nitrite ---------- No Effect
Sodium Perborate ---------- Moderate Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- Minor Effect
Sodium Resinate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate ---------- Minor Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- Moderate Effect
Sodium Sulfide ---------- Minor Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- Moderate Effect
Sodium Sulfite, 10% Solution @ 150 F --------- Minor Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- Minor Effect
Sodium Triphosphate ---------- No Effect
Sorghum ---------- No Effect
Sorgum ---------- No Effect
Sour Crude Oil ---------- Moderate Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- **Severe Effect**

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Stannic Chloride, 50% ---------- **Severe Effect**
Stannic Fluoborate ---------- No Effect
Stannous Chloride ---------- **Severe Effect**
Starch ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- No Effect
Steric Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfamic Acid ---------- **Severe Effect**
Sulfate Black Liquor ---------- Minor Effect
Sulfate Green Liquor ---------- Minor Effect
Sulfate Liquors ---------- Moderate Effect
Sulfite Liquors ---------- Minor Effect
Sulfur ---------- Moderate Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Containing Oil (1.5%S) ---------- Minor Effect
Sulfur Dioxide ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- Moderate Effect
Sulfur Trioxide ---------- Moderate Effect
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid ---------- Minor Effect
Sulfuric Acid (Aerated) No Velocity ---------- Minor Effect
Sulfuric Acid (Air Free) No Velocity --------- Minor Effect
Sulfuric Acid (Conc) ---------- Minor Effect
Sulfuric Acid (Fuming) ---------- Minor Effect
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfuric Acid, 25% ---------- **Severe Effect**
Sulfuric Acid, 50% ---------- **Severe Effect**
Sulfuric Acid, 60% ---------- **Severe Effect**
Sulfuric Acid, 75% ---------- **Severe Effect**
Sulfuric Acid, 85% ---------- No Effect
Sulfuric Acid, 95% ---------- **Severe Effect**

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Sulfuric Acid, 98.5% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- No Effect
Sulphuric Acid, 5% ---------- No Effect
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- No Effect
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------- Minor Effect
Sulphurous Acid - Saturated ---------- No Effect
Sulphurous Spray ---------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Talc Oil ---------- No Effect
Tall Oil (Liquid Rosin) ---------- Minor Effect
Tallow ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- Moderate Effect
Tanning Liquors ---------- No Effect
Tanning Oil ---------- No Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- Minor Effect
Terpineol ---------- No Effect
Tertiary Butyl Catechol ---------- Minor Effect
Tetrachloroethane ---------- Moderate Effect
Tetrachloroethylene ---------- No Effect
Tetraethyl Lead ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tetrahydronaphthalene ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- Minor Effect
THIO-RED ---------- No Effect
Thionyl Chloride ---------- No Effect
Tin-Fluoborate Plating 100 F ---------- Moderate Effect

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Tin-Lead Plating 100 F ---------- Moderate Effect
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- No Effect
Transformer Oil ---------- No Effect
Transmission Fluid ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributyl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- Moderate Effect
Trichloroethylene ---------- Minor Effect
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresolphosphate ---------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Trimethylene Glycol ---------- No Effect
Triphenyl Phosphsite ---------- No Effect
Trisodium Phosphate ---------- Minor Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- No Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect

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Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Urea ---------- Minor Effect
Uric Acid ---------- Minor Effect
Urine ---------- No Effect
Vanadium Ashes ---------- No Effect
Vanadium Pentoxide ---------- No Effect
Vanilla Extract ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- Moderate Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- Minor Effect
Vinyl Acetate ---------- No Effect
Vinyl Chloride ---------- No Effect
Water ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Acid Mine ---------- Minor Effect
Water, Brine, Process, Beverage ---------- Minor Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- Moderate Effect
Waxes ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Oil ---------- No Effect
White Sulfate Liquor ---------- No Effect
White Water (Paper Mill) ---------- No Effect
Wines ---------- No Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Wort, Distillery ---------- No Effect
Xenon ---------- No Effect

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Xylene	Minor Effect
Zeolite	No Effect
Zinc Acetate	No Effect
Zinc Carbonate	Minor Effect
Zinc Chloride	**Severe Effect**
Zinc Chloride, 5% Solution	Minor Effect
Zinc Hydrosulfite	No Effect
Zinc Nitrate	No Effect
Zinc Plating, Acid Chloride 140 F	**Severe Effect**
Zinc Plating, Acid Sulfate Bath 150 F	Moderate Effect
Zinc Sulfate	Moderate Effect
Zinc Sulfate, 25% Solution (Boiling)	No Effect
Zinc Sulfate, 5% Solution	No Effect
Zinc Sulfate, Saturated Solution	No Effect

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400 SERIES STAINLESS STEEL HARDENED

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetaldehyde	Minor Effect
Acetate Solvents	Minor Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	No Effect
Acetyl Chloride	No Effect
Acetylene (Ethyne)	No Effect
Adipic Acid	No Effect
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect
Aerosafe 2300W	No Effect
Aeroshell 17 Grease	No Effect
Aeroshell 1AC	No Effect
Aeroshell 750	No Effect

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Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Ethyl ---------- Minor Effect
Alcohol, Methyl ---------- Minor Effect
Alcohol, Propyl ---------- No Effect
Allyl Alcohol ---------- No Effect
Allyl Chloride ---------- Minor Effect
Alum ---------- **Severe Effect**
Aluminum Acetate ---------- No Effect
Aluminum Chloride ---------- Minor Effect
Aluminum Fluoride ---------- No Effect
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitride ---------- Minor Effect
Aluminum Potassium Sulfate ---------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 10% ------- **Severe Effect**
Aluminum Potassium Sulfate, 2% Solution ------ **Severe Effect**
Aluminum Sulfate ---------- **Severe Effect**
AMERSEP MP-7 ---------- **Severe Effect**
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- Minor Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Bicarbonate ---------- Minor Effect
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Chloride, 10% Solution Boiling ------ Minor Effect
Ammonium Chloride, 28% Solution Boiling ------ Minor Effect
Ammonium Chloride, 50% Solution Boiling ------ Minor Effect
Ammonium Diphosphate ---------- Minor Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Hydroxide, 3 Molar ---------- Minor Effect
Ammonium Hydroxide, Concentrated ---------- Minor Effect
Ammonium Monophosphate ---------- Minor Effect
Ammonium Nitrate ---------- No Effect

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Ammonium Nitrite ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- **Severe Effect**
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- Minor Effect
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- Minor Effect
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Plus 5% Sulfuric Acid ------ **Severe Effect**
Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Ammonium Thiosulfate ---------- Minor Effect
Ammonium Triphosphate ---------- No Effect
Amyl Alcohol ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- No Effect
Aniline Dyes ---------- No Effect
Aniline Hydrochloride ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Anthraquinone ---------- Minor Effect
Antimony Trichloride ---------- **Severe Effect**
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arsenic Acid ---------- Minor Effect
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- **Severe Effect**
Asphalt ---------- Minor Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect

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Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- **Severe Effect**
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- Minor Effect
Barium Sulfate ---------- No Effect
Barium Sulfate Aqueous Solution (Hot) -------- Minor Effect
Barium Sulfide ---------- Minor Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- Minor Effect
Beet Sugar Liquors ---------- Minor Effect
Benzaldehyde ---------- Minor Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- No Effect
Benzophenone ---------- Minor Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- Minor Effect
Black Sulfate Liquor ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- **Severe Effect**
Brake Fluid (Non-Petroleum) ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect

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Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- Minor Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Cellosolve ---------- No Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Calcium Acetate ---------- Minor Effect
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- **Severe Effect**
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate - Saturated ---------- Minor Effect
Calcium Sulfide ---------- Minor Effect
Calcium Sulfite ---------- Minor Effect
Calgon ---------- No Effect
Camphor ---------- Minor Effect
Cane Sugar Liquors ---------- Minor Effect
Caproic Aldehyde ---------- Minor Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- No Effect
Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride-Aqueous Solution 5%-10% - **Severe Effect**
Carbon Tetrachloride-Pure ---------- No Effect

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Catsup ---------- No Effect
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chloric Acid ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobromomethane ---------- Minor Effect
Chloroform ---------- No Effect
Chrome Alum ---------- No Effect
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid, 15% Solution ---------- **Severe Effect**
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- **Severe Effect**
Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Copal Varnish ---------- No Effect
Copper Acetate ---------- No Effect
Copper Acetate, Saturated Solution ---------- No Effect
Copper Chloride, 1% ---------- Minor Effect
Copper Chloride, 5% Solution ---------- Minor Effect
Copper Cyanide ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect

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Copper Sulfate ---------- Minor Effect
Copper Sulfate, 10% ---------- Minor Effect
Copper Sulfate, 5% ---------- No Effect
Copper Sulphate, Saturated Solution (Boiling) **Severe Effect**
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
D.D.T. ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diisopropyl Ketone ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioxane ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- No Effect

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Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethylene ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Ethylene Trichloride ---------- No Effect
Fatty Acids ---------- Minor Effect
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Hydroxide ---------- No Effect
Ferric Nitrate ---------- Minor Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Ferrous Sulfate (Copperas) ---------- Minor Effect
Ferrous Sulfate, 10% Solution ---------- Minor Effect
Fluoride (Dry) ---------- No Effect
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect

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Formaldehyde (Hot) ---------- No Effect
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- No Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- **Severe Effect**
Gelatin ---------- **Severe Effect**
Glucose ---------- No Effect

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Glutamic Acid ---------- Minor Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Gold Monocyanide ---------- No Effect
Grape Juice ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexane ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine (Diamine) ---------- Minor Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Fluoride ---------- Minor Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Sulfide Dry, Cold ---------- **Severe Effect**
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- **Severe Effect**
Hypochlorous Acid ---------- **Severe Effect**
Iodine ---------- **Severe Effect**
Isododecane ---------- Minor Effect
Isophorone ---------- Minor Effect

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Isopropanol ---------- Minor Effect
Isopropyl Chloride ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- **Severe Effect**
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Lead Acetate ---------- Minor Effect
Light Grease ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- **Severe Effect**
Lime Bleach ---------- **Severe Effect**
Lime Slurries ---------- **Severe Effect**
Lime Sulfur ---------- Minor Effect
Lindol ---------- No Effect
Linoleic Acid ---------- Minor Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- No Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- Minor Effect

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Mash ---------- No Effect
Mayonnaise ---------- Minor Effect
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- Minor Effect
Methyl Acetate ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- Minor Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- Minor Effect
Methyl Butyl Ketone ---------- Minor Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- Minor Effect
Methyl Dichloride ---------- No Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- Minor Effect
Methyl Formate ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methylamine ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- Minor Effect
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- No Effect
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- Minor Effect
Monobromobenzene ---------- No Effect
Monochloracetic Acid ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect

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Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neon ---------- No Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- Minor Effect
Nickel Sulfate ---------- No Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- No Effect
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect
Nitroethane ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- Minor Effect
Nitrous Oxide ---------- No Effect
O-Chloronaphthalene ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
Octyl Alcohol ---------- No Effect
Oleic Acid ---------- Minor Effect
Oxalic Acid, 10% Solution ---------- Minor Effect

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Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Cold ---------- No Effect
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Perchloroethylene ---------- No Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petroleum Ether ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- **Severe Effect**
Phenol ---------- Minor Effect
Phosphoric Acid Air Free ---------- **Severe Effect**
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphorus Oxychloride ---------- **Severe Effect**
Photographic Developers ---------- Minor Effect
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- No Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid, H2O Solution ---------- Minor Effect
Pneumatic Service ---------- No Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bromide ---------- Minor Effect
Potassium Carbonate ---------- Minor Effect

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Potassium Chlorate ---------- Minor Effect
Potassium Chromate ---------- Minor Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Minor Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Nitrate ---------- Minor Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Oxalate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulphate ---------- Minor Effect
Potassium Sulphite or Nitrate ---------- Minor Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propyl Alcohol ---------- No Effect
Propyl Nitrate ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Resins and Rosins ---------- No Effect
Rosin ---------- Minor Effect
Salicylic Acid ---------- No Effect

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Salt Water ---------- **Severe Effect**
Santo Safe 300 ---------- No Effect
Sea Water ---------- **Severe Effect**
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- **Severe Effect**
Silver Chloride ---------- **Severe Effect**
Silver Nitrate ---------- Minor Effect
Soap Solutions ---------- No Effect
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- **Severe Effect**
Sodium Borate ---------- Minor Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect
Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chloride, 5% Solution ---------- Minor Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chloride, Saturated Solution (Boiling) No Effect
Sodium Chromate ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) --------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- **Severe Effect**

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Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- **Severe Effect**
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfite ---------- **Severe Effect**
Sodium Sulfite, 10% Solution @ 150 F ---------- **Severe Effect**
Sodium Sulfite, 5% Solution ---------- **Severe Effect**
Sodium Sulphate ---------- **Severe Effect**
Sodium Thiosulfate ---------- **Severe Effect**
Soybean Oil ---------- No Effect
SP-90X ---------- **Severe Effect**
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Steam, Above 350 F ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- Minor Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfite Liquors ---------- Minor Effect
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- Minor Effect

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Sulfur Containing Oil (1.5%S) ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfuric Acid (Aerated) No Velocity ---------- **Severe Effect**
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Conc) ---------- No Effect
Sulfuric Acid (Fuming) ---------- No Effect
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- **Severe Effect**
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- No Effect
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphurous Acid - Saturated ---------- Minor Effect
Sulphurous Spray ---------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- Minor Effect
Tar and Tar Oil ---------- Minor Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- Minor Effect
Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Toluene ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- Minor Effect

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Transformer Oil ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichloroethylene ---------- Minor Effect
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresolphosphate ---------- No Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- Minor Effect
Triphenyl Phosphsite ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- Minor Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Uric Acid ---------- Minor Effect
Vanadium Ashes ---------- No Effect
Vanadium Pentoxide ---------- No Effect
Varnish ---------- No Effect
Vegetable Oil (Hot) ---------- No Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- Minor Effect
Vinyl Chloride ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- **Severe Effect**
Water, Brine, Process, Beverage ---------- **Severe Effect**
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect

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Water, Salt ---------- **Severe Effect**
Waxes ---------- No Effect
Whiskey ---------- **Severe Effect**
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- Minor Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Chloride, 5% Solution ---------- Minor Effect
Zinc Sulfate ---------- **Severe Effect**
Zinc Sulfate, 25% Solution (Boiling) ---------- **Severe Effect**
Zinc Sulfate, 5% Solution ---------- **Severe Effect**
Zinc Sulfate, Saturated Solution ---------- **Severe Effect**

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440 STAINLESS STEEL

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetate Solvents	Minor Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 5%	Minor Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	Minor Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	No Effect
Acetylene (Ethyne)	No Effect
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect
Aerosafe 2300W	No Effect
Aeroshell 17 Grease	No Effect
Aeroshell 1AC	No Effect
Aeroshell 750	No Effect
Aeroshell 7A Grease	No Effect
Air	No Effect
Alcohol	No Effect
Alcohol, Ethyl	No Effect

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Alcohol, Methyl ---------- Minor Effect
Alcohol, Propyl ---------- No Effect
Allyl Alcohol ---------- No Effect
Allyl Chloride ---------- Minor Effect
Alum ---------- **Severe Effect**
Aluminum Acetate ---------- Minor Effect
Aluminum Chloride ---------- Minor Effect
Aluminum Chloride, 20% ---------- **Severe Effect**
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitride ---------- Minor Effect
Aluminum Potassium Sulfate ---------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 10% ------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 100% ------ Minor Effect
Aluminum Potassium Sulfate, 2% Solution ------ **Severe Effect**
Aluminum Potassium Sulfate, Saturated Boiling Minor Effect
Aluminum Sulfate ---------- **Severe Effect**
AMERSEP MP-7 ---------- **Severe Effect**
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Bicarbonate ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Chloride, 10% Solution Boiling ------ Minor Effect
Ammonium Chloride, 28% Solution Boiling ------ Minor Effect
Ammonium Chloride, 50% Solution Boiling ------ Minor Effect
Ammonium Diphosphate ---------- Minor Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Hydroxide, 3 Molar ---------- Minor Effect
Ammonium Hydroxide, Concentrated ---------- Minor Effect
Ammonium Monophosphate ---------- Minor Effect
Ammonium Nitrate ---------- No Effect

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Ammonium Nitrite ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Persulfate ---------- Minor Effect
Ammonium Persulfate, 10% ---------- Minor Effect
Ammonium Persulfate, 5% ---------- Minor Effect
Ammonium Phosphate ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- Minor Effect
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Plus 5% Sulfuric Acid ------ **Severe Effect**
Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Ammonium Thiosulfate ---------- Minor Effect
Ammonium Triphosphate ---------- No Effect
Amyl Acetate ---------- Moderate Effect
Amyl Alcohol ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- No Effect
Aniline Dyes ---------- No Effect
Aniline Hydrochloride ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Anthraquinone ---------- Minor Effect
Antimony Trichloride ---------- **Severe Effect**
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arsenic Acid ---------- Minor Effect
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- No Effect
Asphalt ---------- Minor Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect

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ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- **Severe Effect**
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- Minor Effect
Barium Hydroxide ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfate Aqueous Solution (Hot) -------- Minor Effect
Barium Sulfide ---------- Minor Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- Minor Effect
Beet Sugar Liquors ---------- Minor Effect
Benzaldehyde ---------- Minor Effect
Benzene ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- No Effect
Benzophenone ---------- Minor Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- Minor Effect
Black Sulfate Liquor ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**

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Bromine, Liquid ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- Minor Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Cellosolve ---------- No Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Calcium Acetate ---------- Minor Effect
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- **Severe Effect**
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfate - Saturated ---------- Minor Effect
Calcium Sulfide ---------- Minor Effect
Calcium Sulfite ---------- Minor Effect
Calgon ---------- No Effect
Camphor ---------- Minor Effect
Cane Sugar Liquors ---------- Minor Effect
Caproic Aldehyde ---------- Minor Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- No Effect

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Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- No Effect
Carbon Tetrachloride-Aqueous Solution 5%-10% - **Severe Effect**
Carbon Tetrachloride-Pure ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Catsup ---------- No Effect
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chloric Acid ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobromomethane ---------- Minor Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chrome Alum ---------- No Effect
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Cider (Apple Juice) ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, 15% Solution ---------- **Severe Effect**

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Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- **Severe Effect**
Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Coffee ---------- No Effect
Copal Varnish ---------- No Effect
Copper Acetate ---------- No Effect
Copper Acetate, Saturated Solution ---------- No Effect
Copper Chloride ---------- Minor Effect
Copper Chloride, 1% ---------- Minor Effect
Copper Chloride, 5% Solution ---------- Minor Effect
Copper Cyanide ---------- No Effect
Copper Nitrate ---------- Minor Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Sulfate ---------- Minor Effect
Copper Sulfate, 10% ---------- Minor Effect
Copper Sulfate, 5% ---------- No Effect
Copper Sulphate, Saturated Solution (Boiling) **Severe Effect**
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
D.D.T. ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect

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Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diisopropyl Ketone ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioxane ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethylene ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Glycol ---------- No Effect

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Ethylene Oxide ---------- No Effect
Ethylene Trichloride ---------- No Effect
Fatty Acids ---------- Minor Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Hydroxide ---------- No Effect
Ferric Nitrate ---------- Minor Effect
Ferric Sulfate ---------- No Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Ferrous Sulfate (Copperas) ---------- Minor Effect
Ferrous Sulfate, 10% Solution ---------- Minor Effect
Fluoride (Dry) ---------- No Effect
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- No Effect
Formic Acid ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect

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Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- No Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- **Severe Effect**
Gelatin ---------- **Severe Effect**
Glucose ---------- No Effect
Glutamic Acid ---------- Minor Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Gold Monocyanide ---------- No Effect
Grape Juice ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexane ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine (Diamine) ---------- Minor Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**

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Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Fluoride ---------- Minor Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Sulfide Dry, Cold ---------- **Severe Effect**
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- Moderate Effect
Hypochlorous Acid ---------- **Severe Effect**
Iodine ---------- **Severe Effect**
Isododecane ---------- Minor Effect
Isophorone ---------- Minor Effect
Isopropanol ---------- Minor Effect
Isopropyl Chloride ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- No Effect

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Lacquers ---------- No Effect
Lactic Acid ---------- Moderate Effect
Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- **Severe Effect**
Lard ---------- No Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Lead Acetate ---------- Minor Effect
Light Grease ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- **Severe Effect**
Lime Bleach ---------- **Severe Effect**
Lime Slurries ---------- **Severe Effect**
Lime Sulfur ---------- Minor Effect
Lindol ---------- No Effect
Linoleic Acid ---------- Minor Effect
Linseed Oil ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- No Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- Minor Effect
Mash ---------- No Effect
Mayonnaise ---------- Minor Effect
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect

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Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- Minor Effect
Methyl Acetate ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- Minor Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- Minor Effect
Methyl Butyl Ketone ---------- Minor Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- Minor Effect
Methyl Dichloride ---------- No Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methylamine ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Milk ---------- Minor Effect
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- No Effect
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- Minor Effect
Monobromobenzene ---------- No Effect
Monochloracetic Acid ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
Mustard ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect

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Naptha ---------- No Effect
Napthalene ---------- No Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neon ---------- No Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- Minor Effect
Nickel Sulfate ---------- No Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- No Effect
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect
Nitroethane ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- Minor Effect
Nitrous Oxide ---------- No Effect
O-Chloronaphthalene ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
Octyl Alcohol ---------- No Effect
Oleic Acid ---------- Minor Effect
Oxalic Acid ---------- No Effect
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Cold ---------- No Effect

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P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Perchloroethylene ---------- No Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petroleum Ether ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- **Severe Effect**
Phenol ---------- Minor Effect
Phenol (Carbolic Acid) ---------- No Effect
Phosphoric Acid (Crude) ---------- Moderate Effect
Phosphoric Acid Air Free ---------- **Severe Effect**
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphorus Oxychloride ---------- **Severe Effect**
Photographic Developers ---------- Minor Effect
Photographic Solutions ---------- Moderate Effect
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- No Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid, H2O Solution ---------- Minor Effect
Pneumatic Service ---------- No Effect
Potash ---------- No Effect
Potassium Bicarbonate ---------- Minor Effect

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Potassium Bromide ---------- Minor Effect
Potassium Bromide ---------- Minor Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Minor Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% ---------- Minor Effect
Potassium Nitrate ---------- Minor Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Oxalate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulphate ---------- Minor Effect
Potassium Sulphite or Nitrate ---------- Minor Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propyl Alcohol ---------- No Effect
Propyl Nitrate ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- No Effect

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Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Resins and Rosins ---------- No Effect
Rosin ---------- Minor Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- **Severe Effect**
Santo Safe 300 ---------- No Effect
Sea Water ---------- **Severe Effect**
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- **Severe Effect**
Silver Chloride ---------- **Severe Effect**
Silver Nitrate ---------- Minor Effect
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- **Severe Effect**
Sodium Borate ---------- Minor Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect

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Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chloride, 5% Solution ---------- Minor Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chloride, Saturated Solution (Boiling) No Effect
Sodium Chromate ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Fluoride ---------- Moderate Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) --------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- Moderate Effect
Sodium Hypochlorite, 20% ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Perborate ---------- Minor Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- Moderate Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfite ---------- **Severe Effect**
Sodium Sulfite, 10% Solution @ 150 F --------- **Severe Effect**

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Sodium Sulfite, 5% Solution ---------- **Severe Effect**
Sodium Sulphate ---------- **Severe Effect**
Sodium Thiosulfate ---------- **Severe Effect**
Soybean Oil ---------- No Effect
SP-90X ---------- **Severe Effect**
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Steam, Above 350 F ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- Minor Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfite Liquors ---------- Minor Effect
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Containing Oil (1.5%S) ---------- Minor Effect
Sulfur Dioxide ---------- Moderate Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfuric Acid (Aerated) No Velocity ---------- **Severe Effect**
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Conc) ---------- No Effect
Sulfuric Acid (Fuming) ---------- No Effect
Sulfuric Acid, 10% ---------- Moderate Effect
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfurous Acid ---------- Moderate Effect
Sulphuric Acid, 10% Solution ---------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- **Severe Effect**
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- No Effect
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**

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Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphurous Acid - Saturated ---------- Minor Effect
Sulphurous Spray ---------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- No Effect
Tar and Tar Oil ---------- Minor Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- Minor Effect
Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Toluene ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- Minor Effect
Transformer Oil ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichloroethylene ---------- Minor Effect
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresolphosphate ---------- No Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- Minor Effect
Triphenyl Phosphsite ---------- No Effect
Trisodium Phosphate ---------- Minor Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect

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Turpentine ---------- Minor Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Uric Acid ---------- Minor Effect
Vanadium Ashes ---------- No Effect
Vanadium Pentoxide ---------- No Effect
Varnish ---------- No Effect
Vegetable Oil (Hot) ---------- No Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- No Effect
Vinyl Chloride ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- **Severe Effect**
Water, Brine, Process, Beverage ---------- **Severe Effect**
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- **Severe Effect**
Waxes ---------- No Effect
Whiskey ---------- **Severe Effect**
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- Minor Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- Minor Effect
Zinc Chloride, 5% Solution ---------- Minor Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ Moderate Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Sulfate ---------- **Severe Effect**
Zinc Sulfate, 25% Solution (Boiling) --------- **Severe Effect**
Zinc Sulfate, 5% Solution ---------- **Severe Effect**
Zinc Sulfate, Saturated Solution ---------- **Severe Effect**

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Acetal

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect

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ACETAL (DELRIN, CELCON)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetaldehyde	No Effect
Acetamide	Minor Effect
Acetate Solvents	No Effect
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 80%	Minor Effect
Acetic Acid, Crude	No Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	Minor Effect
Acetyl Chloride	**Severe Effect**
Acetylene (Ethyne)	No Effect
Acid Mine Water	Minor Effect
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect
Aerosafe 2300W	No Effect
Aeroshell 17 Grease	No Effect
Aeroshell 1AC	No Effect
Aeroshell 750	No Effect
Aeroshell 7A Grease	No Effect
Air	No Effect
Alcohol	No Effect
Alcohol, Butyl	No Effect
Alcohol, Ethyl	Minor Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Alkaline Solutions	No Effect
Alkazene	No Effect
Alum	No Effect
Aluminum Chloride	Minor Effect

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Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- Minor Effect
Aluminum Potassium Sulfate, Saturated Boiling **Severe Effect**
Aluminum Sulfate ---------- **Severe Effect**
AMERSEP MP-7 ---------- No Effect
Ammonia, Liquids ---------- **Severe Effect**
Ammonia, Nitrate ---------- **Severe Effect**
Ammonium Bicarbonate ---------- **Severe Effect**
Ammonium Bifluoride, 10% ---------- **Severe Effect**
Ammonium Carbonate ---------- No Effect
Ammonium Chloride, 1% ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Hydroxide, 3 Molar ---------- No Effect
Ammonium Hydroxide, Concentrated ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Phosphate ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- Minor Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Triphosphate ---------- Minor Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Arsenic Acid ---------- No Effect
Asphalt ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect

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Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Banana Oil ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- Minor Effect
Beet Sugar Liquors ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzol ---------- No Effect
Benzyl Chloride ---------- No Effect
Blast Furnace Gas ---------- No Effect
Borax ---------- Minor Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Pentafluoride ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect

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Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Cellosolve ---------- No Effect
Butyl Stearate ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- No Effect
Calcium Bisulfide ---------- **Severe Effect**
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- **Severe Effect**
Calgon ---------- No Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Dioxide, Wet ---------- No Effect
Carbon Disulfide ---------- No Effect
Carbon Tetrachloride-Aqueous Solution 5%-10% - No Effect
Carbon Tetrachloride-Pure ---------- No Effect
Carbonate of Soda ---------- **Severe Effect**
Castor Oil ---------- No Effect
Catsup ---------- Minor Effect
Catsup ---------- No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorate of Lime ---------- **Severe Effect**
Chlorinated Glue ---------- **Severe Effect**
Chlorinated Solvents, Dry ---------- No Effect
Chlorinated Solvents, Wet ---------- No Effect
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- No Effect
Chlorine, Wet ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- No Effect

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Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Cider (Apple Juice) ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Oils ---------- Minor Effect
Coconut Oil ---------- No Effect
Coffee ---------- No Effect
Coke Oven Gas ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- Minor Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Creosols ---------- **Severe Effect**
Creosote, Coal-Tar ---------- No Effect
Creosote, Wood-Tar ---------- No Effect
Cresylic Acid ---------- **Severe Effect**
Crude Oil ---------- No Effect
Cumeme ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- No Effect
D.D.T. ---------- No Effect
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- No Effect
Diacetone Alcohol ---------- No Effect

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Dibutyl Phthalate ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethylene Glycol ---------- No Effect
Drinking Water ---------- No Effect
DTE Light Oil ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferrous Sulfate (Saturated) ---------- No Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fish Liver Oils ---------- No Effect
Formaldehyde ---------- **Severe Effect**
Fruit Juices ---------- **Severe Effect**
Fuel Oil ---------- No Effect
Fumaric Acid ---------- **Severe Effect**
Furfural ---------- No Effect
Gallic Acid ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gelatin ---------- No Effect
Glauber's Salt ---------- **Severe Effect**
Glucose ---------- No Effect

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Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Gold Monocyanide ---------- No Effect
Grape Juice ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Hexyl Alcohol ---------- No Effect
Honey ---------- No Effect
Hydrochloric Acid ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydroxyacetic Acid, 10% ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine Pentafluoride ---------- **Severe Effect**
Isophorone ---------- No Effect
Isopropyl Alcohol ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- **Severe Effect**
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Latex ---------- Minor Effect

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Lavender Oil ---------- No Effect
Lead Acetate ---------- No Effect
Light Grease ---------- No Effect
Ligroin ---------- Minor Effect
Lime ---------- **Severe Effect**
Lime Slurries ---------- No Effect
Lime Sulfur ---------- No Effect
Linoleic Acid ---------- Minor Effect
Linseed Oil ---------- No Effect
Lithium Chloride ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Oxide ---------- No Effect
Malic Acid ---------- No Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- No Effect
Mash ---------- No Effect
Mayonnaise ---------- No Effect
Melamine Resins ---------- No Effect
Mercury ---------- Minor Effect
Mesityl Oxide ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- No Effect
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Cyclopentane ---------- No Effect
Methyl Dichloride ---------- **Severe Effect**
Methyl Ether ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect

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Methyl Isobutyl Ketone ---------- No Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- **Severe Effect**
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Mine Water ---------- Minor Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monomethylaniline ---------- No Effect
Mustard ---------- No Effect
N-Hexaldehyde ---------- No Effect
N-Pentane ---------- No Effect
Naptha ---------- No Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Sulfate ---------- No Effect
Niter Coke ---------- **Severe Effect**
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitroethane ---------- No Effect
Nitrogen ---------- No Effect
Nitrogen Tetroxide ---------- **Severe Effect**
Nitromethane ---------- No Effect

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Nitropropane ---------- No Effect
Oils (Animal) ---------- No Effect
Oils, Crude ---------- No Effect
Oleic Acid ---------- No Effect
Oleum Spirits ---------- No Effect
Olive Oil ---------- No Effect
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Cold ---------- No Effect
P-Cymene ---------- No Effect
Paint Thinner, DUCO ---------- No Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Peanut Oil ---------- No Effect
Pentane, 2 Methyl ---------- No Effect
Pentane, 2-4, Dimethyl ---------- No Effect
Pentane, 3-Methyl ---------- No Effect
Perchloric Acid ---------- No Effect
Perchloroethylene ---------- No Effect
Petroleum Ether ---------- No Effect
Phenol ---------- **Severe Effect**
Phenol, 70%/30% H2O ---------- **Severe Effect**
Phenol, 85%/15% H2O ---------- **Severe Effect**
Phorone ---------- No Effect
Phosphoric Acid ---------- **Severe Effect**
Phosphoric Acid (Conc) ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 3 Molar ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Photographic Developers ---------- No Effect
Pine Oil ---------- No Effect
Pinene ---------- No Effect

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Plating Solution, Chrome ---------- No Effect
Pneumatic Service ---------- No Effect
Potassium Acetate ---------- No Effect
Potassium Alum ---------- No Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- Minor Effect
Potassium Diphosphate ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Monophosphates ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane Propionitrile ---------- No Effect
Propylene ---------- No Effect
Propylene Glycol ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- **Severe Effect**
Pyroligneous Acid ---------- **Severe Effect**

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Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- No Effect
Rape-Seed Oil ---------- No Effect
Rayon Spin Bath ---------- No Effect
Resins and Rosins ---------- No Effect
RJ-1 (Mil-F-25558) ---------- No Effect
Rosin ---------- No Effect
Rosin Emulsion ---------- No Effect
RP-1 (Mil-R-25576) ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Sal Ammoniac ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- **Severe Effect**
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- **Severe Effect**
Silver Nitrate ---------- No Effect
Soap Solutions ---------- No Effect
Soda Ash ---------- **Severe Effect**
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- **Severe Effect**
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- **Severe Effect**
Sodium Chlorate ---------- No Effect

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Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Nitrate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Resinate ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Sulfite, 10% Solution @ 150 F ---------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Tetraphosphate ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Sodium Triphosphate ---------- No Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Spry ---------- No Effect
SR-10 Fuel ---------- No Effect
SR-6 Fuel ---------- No Effect
Stannic Chloride ---------- Minor Effect
Stannic Fluoborate ---------- Minor Effect
Starch ---------- No Effect

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Steam, Above 350 F ---------- **Severe Effect**
Steam, Below 350 F ---------- **Severe Effect**
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfite Liquors ---------- No Effect
Sulfur ---------- No Effect
Sulfur (Molten) ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Liquefied Under Pressure ----- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Hexafluoride ---------- No Effect
Sulfur Trioxide (Dry) ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Syrup ---------- No Effect
Tallow, Molten ---------- **Severe Effect**
Tannic Acid ---------- **Severe Effect**
Tannin ---------- No Effect
Tar and Tar Oil ---------- No Effect
Tartaric Acid ---------- No Effect
Tetraethyl Lead ---------- No Effect
THIO-RED ---------- No Effect
Titanium Tetrachloride ---------- No Effect
Toluene ---------- Minor Effect
Toluol ---------- Minor Effect
Tomato Pulp & Juice ---------- Minor Effect
Triacetin ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributoxyl Ethyl Phosphate ---------- No Effect
Tributyl Mercaptan ---------- No Effect
Tributyl Phosphate ---------- Minor Effect

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Trichloroethane ---------- No Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- No Effect
Trisodium Phosphate ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turpentine ---------- Minor Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Univolt #35 (Mineral Oil) ---------- No Effect
Urine ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- Minor Effect
Water ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Oil ---------- No Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- No Effect
Xylidenes, Mixed, Aromatic ---------- No Effect
Zeolite ---------- No Effect
Zinc Acetate ---------- No Effect

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Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Salts ---------- No Effect
Zinc Sulfate ---------- Minor Effect
Zinc Sulfate, 5% Solution ---------- Minor Effect
Zinc Sulfate, Saturated Solution ---------- Minor Effect

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Acetaldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	Minor Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	Minor Effect

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POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- Minor Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Acetamide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Acetate Solvents

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
FLOURAZ	**Severe Effect**
HYPALON	**Severe Effect**
MONEL	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Acetic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	Moderate Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
MONEL	Minor Effect
NORYL	No Effect
PHENOLIC	No Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Acetic Acid 100% Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Acetic Acid Air Free

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**

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Acetic Acid Aerated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**

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Acetic Acid Vapors - 100% (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Acetic Acid, 100% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Acetic Acid, 20%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	Moderate Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVC	Minor Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	Moderate Effect

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Acetic Acid, 30%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Acetic Acid, 5%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	Moderate Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NEOPRENE	Moderate Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICONE	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect

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VINYL ---------- **Severe Effect**
VITON ---------- Moderate Effect

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Acetic Acid, 50%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Acetic Acid, 50% Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Acetic Acid, 80%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	Minor Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
TITANIUM	No Effect

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VITON ---------- **Severe Effect**

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Acetic Acid, 80% Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Acetic Acid, 95%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
CARBON	**Severe Effect**
ECTFE	No Effect
HASTELLOY C	No Effect
MONEL	Minor Effect
NORYL	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect

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Acetic Acid, Crude

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Acetic Acid, Glacial

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	No Effect

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POLYSULFONE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- Minor Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Acetic Anhydride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect

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POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	**Severe Effect**
VINYL	**Severe Effect**
VITON	**Severe Effect**

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Acetic Anhydride (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Acetone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	Minor Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	No Effect

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NEOPRENE ---------- **Severe Effect**
NORYL ---------- **Severe Effect**
NYLON (Polyamide) ---------- No Effect
PHENOLIC ---------- Minor Effect
POLYACETAL ---------- Minor Effect
POLYCARBONATE (LEXAN) ---------- **Severe Effect**
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Acetone Cyanohydrin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Acetonitrile (Methyl Cyanide)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Acetophenone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Acetyl Acetone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Acetyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	Minor Effect

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Acetyl Salicylic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
CARBON STEEL	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Acetylene (Ethyne)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	Minor Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	Moderate Effect

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TEFLON ---------- No Effect
VITON ---------- No Effect

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Acetylene Tetrabromide

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Acid (Mild)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
TEFLON	No Effect
VITON	No Effect

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Acid Mine Water

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	Minor Effect
E.P.D.M.	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Acids (Concentrated)

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Acrolein (Acrylaldehyde)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	No Effect

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ACRYLIC

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	**Severe Effect**
Acetic Acid, 5%	Moderate Effect
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Alcohol, Amyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Ethyl	**Severe Effect**
Alcohol, Methyl	**Severe Effect**
Aluminum Ammonium Sulfate	No Effect
Aluminum Chloride	No Effect
Aluminum Hydroxide	No Effect
Aluminum Sulfate	No Effect
Alums	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonium Carbonate	No Effect
Ammonium Chloride	No Effect
Ammonium Hydroxide	No Effect
Ammonium Nitrate	No Effect
Ammonium Persulfate	No Effect
Ammonium Sulfate	No Effect
Amyl Acetate	**Severe Effect**
Aniline	**Severe Effect**
Aqua Ammonia	No Effect
Barium Carbonate	No Effect
Barium Chloride	No Effect
Barium Hydroxide	No Effect
Barium Sulfate	No Effect
Beer	Moderate Effect
Benzene	**Severe Effect**
Benzoic Acid	Moderate Effect
Bleach, 12.5% Active Chlorine	No Effect

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Borax ---------- No Effect
Boric Acid ---------- No Effect
Bromine, Liquid ---------- **Severe Effect**
Butyl Acetate ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Sulfate ---------- No Effect
Carbon Disulfide ---------- No Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Caustic Soda ---------- No Effect
Chlorine Water ---------- No Effect
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chromic Acid, 10% ---------- **Severe Effect**
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Citric Acid ---------- No Effect
Copper Chloride ---------- No Effect
Copper Sulfate ---------- Moderate Effect
Cottonseed Oil ---------- No Effect
Cresol ---------- Moderate Effect
Dextrose ---------- No Effect
Disodium Phosphate ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Chloride ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Fatty Acids ---------- No Effect

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Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- No Effect
Formic Acid ---------- Moderate Effect
Fruit Juice Pulp ---------- No Effect
Gasoline, Refined ---------- No Effect
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Hydrazine ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrofluoric Acid, 50% ---------- **Severe Effect**
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Iodine ---------- Moderate Effect
Kerosene ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Sulfate ---------- No Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Naphtha, Petroleum ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- **Severe Effect**
Oils and Fats ---------- No Effect
Oleum ---------- **Severe Effect**

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Oxalic Acid ---------- No Effect
Phenol ---------- Moderate Effect
Phosgene, Gas ---------- Moderate Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphorus Trichloride ---------- Moderate Effect
Photographic Solutions ---------- No Effect
Picric Acid ---------- No Effect
Plating Solutions ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Sulfate ---------- No Effect
Propylene Dichloride ---------- Moderate Effect
Sea Water ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating Solutions ---------- No Effect
Soaps ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- No Effect

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Sodium Hydroxide ---------- No Effect
Sodium Hypochlorite ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Phosphate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Stannous Chloride ---------- No Effect
Sulfur ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- No Effect
Sulfurous Acid ---------- No Effect
Tannic Acid ---------- No Effect
Toluene ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Trichloropropane ---------- Moderate Effect
Triethanolamine ---------- No Effect
Turpentine ---------- No Effect
Urea ---------- No Effect
Vinegar ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- **Severe Effect**
Wines ---------- **Severe Effect**
Zinc Chloride ---------- No Effect
Zinc Sulfate ---------- No Effect

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Acrylonitrile

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Adipic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Aero Lubriplate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aerosafe 2300

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Aerosafe 2300W

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Aeroshell 17 Grease

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aeroshell 1AC

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aeroshell 750

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Aeroshell 7A Grease

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Air

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
HYPALON	Minor Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	No Effect
NORYL	Minor Effect
PHENOLIC	No Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Alcohol, Amyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	No Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NEOPRENE	Minor Effect
NORPRENE	Moderate Effect
NORYL	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Minor Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	**Severe Effect**
SILICONE	**Severe Effect**
TEFLON	No Effect

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TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- Moderate Effect

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Alcohol, Benzyl

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NEOPRENE	Minor Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
SILICONE	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Alcohol, Butyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	Minor Effect
POLYSULFONE	Minor Effect
PVC	Moderate Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	**Severe Effect**
SILICONE	Moderate Effect

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TEFLON ---------- No Effect
TITANIUM ---------- Minor Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- Minor Effect
VITON ---------- No Effect

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Alcohol, Diacetone

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	**Severe Effect**

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Alcohol, Ethyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	**Severe Effect**

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POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Alcohol, Hexyl

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Alcohol, Isobutyl

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
RUBBER (Natural)	No Effect
SILICON	Minor Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Alcohol, Isopropyl

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	Minor Effect
NORPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
RUBBER (Natural)	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Alcohol, Methyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect

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POLYCARBONATE (LEXAN) ---------- Minor Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Alcohol, Octyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
RUBBER (Natural)	Moderate Effect
TEFLON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Alcohol, Propyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Minor Effect

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TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Alkaline Solutions

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Alkazene

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Allyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Allyl Bromide

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Allyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	Moderate Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Almond Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Alum

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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ALUMINUM (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
1-Chlorol 1 Nitro Ethane	**Severe Effect**
1-Chloronaphthalene	**Severe Effect**
1-Nitropropane	No Effect
Acetaldehyde	Minor Effect
Acetamide	No Effect
Acetate Solvents	No Effect
Acetic Acid Vapors - 100% (Hot)	Minor Effect
Acetic Acid, 100% Solution	Minor Effect
Acetic Acid, 20%	Minor Effect
Acetic Acid, 30%	Minor Effect
Acetic Acid, 5%	Minor Effect
Acetic Acid, 50%	Minor Effect
Acetic Acid, 80%	Minor Effect
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	Minor Effect
Acetone	Minor Effect
Acetone Cyanohydrin	No Effect
Acetonitrile (Methyl Cyanide)	Minor Effect
Acetophenone	Minor Effect
Acetyl Acetone	Minor Effect
Acetyl Chloride	**Severe Effect**
Acetyl Salicylic Acid	No Effect
Acetylene (Ethyne)	No Effect
Acetylene Tetrabromide	**Severe Effect**
Acrolein (Acrylaldehyde)	No Effect
Acrylonitrile	No Effect
Adipic Acid	Minor Effect
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect

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Aerosafe 2300W ---------- No Effect
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- Minor Effect
Alcohol, Benzyl ---------- Minor Effect
Alcohol, Butyl ---------- Minor Effect
Alcohol, Diacetone ---------- No Effect
Alcohol, Ethyl ---------- Minor Effect
Alcohol, Hexyl ---------- No Effect
Alcohol, Isobutyl ---------- Minor Effect
Alcohol, Isopropyl ---------- Minor Effect
Alcohol, Methyl ---------- Minor Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- No Effect
Allyl Alcohol ---------- Minor Effect
Allyl Bromide ---------- **Severe Effect**
Allyl Chloride ---------- **Severe Effect**
Alum ---------- **Severe Effect**
Aluminum Acetate ---------- Minor Effect
Aluminum Chloride ---------- **Severe Effect**
Aluminum Chloride, 20% ---------- Minor Effect
Aluminum Fluoride ---------- No Effect
Aluminum Hydroxide ---------- Minor Effect
Aluminum Nitrate ---------- **Severe Effect**
Aluminum Potassium Sulfate ---------- Minor Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ Minor Effect
Aluminum Potassium Sulfate, 2% Solution ------ No Effect
Aluminum Sulfate ---------- Minor Effect
AMERSEP MP-7 ---------- **Severe Effect**
Amines ---------- No Effect
Ammonia Liquors ---------- No Effect

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Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- **Severe Effect**
Ammonia, Nitrate ---------- **Severe Effect**
Ammonium Acetate ---------- No Effect
Ammonium Bicarbonate ---------- Minor Effect
Ammonium Bifluoride, 10% ---------- Moderate Effect
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- **Severe Effect**
Ammonium Chloride, 1% ---------- **Severe Effect**
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- **Severe Effect**
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Metaphosphate ---------- Minor Effect
Ammonium Monophosphate ---------- Minor Effect
Ammonium Nitrate ---------- Minor Effect
Ammonium Nitrite ---------- Minor Effect
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- **Severe Effect**
Ammonium Phosphate, Di-Basic ---------- **Severe Effect**
Ammonium Phosphate, Monobasic ---------- **Severe Effect**
Ammonium Phosphate, Tri-Basic ---------- **Severe Effect**
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- Minor Effect
Ammonium Thiocyanate ---------- **Severe Effect**
Ammonium Thiosulfate ---------- Minor Effect

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Ammonium Triphosphate ---------- **Severe Effect**
Amyl Acetate ---------- Minor Effect
Amyl Alcohol ---------- Minor Effect
Amyl Chloride ---------- **Severe Effect**
Amyl Phenol ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- **Severe Effect**
Aniline Hydrochloride ---------- **Severe Effect**
Aniline Oil ---------- Moderate Effect
Aniline Sulfite ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Anisole ---------- Minor Effect
Anthraquinone ---------- Minor Effect
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Pentachloride ---------- No Effect
Antimony Trichloride ---------- Minor Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- No Effect
Aroclor ---------- No Effect
Aromatic Hydrocarbons ---------- No Effect
Aromatic Solvents ---------- No Effect
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- Minor Effect
Arsenious Acid ---------- No Effect
Ascorbic Acid ---------- No Effect
Asphalt ---------- No Effect
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- No Effect
ASTM, Red Motor Fuel C ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect

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Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Barium Carbonate ---------- **Severe Effect**
Barium Chloride ---------- **Severe Effect**
Barium Chloride Aqueous Solution (Hot) ------- **Severe Effect**
Barium Chloride Dihydrate ---------- Minor Effect
Barium Chloride, 5% ---------- **Severe Effect**
Barium Cyanide ---------- **Severe Effect**
Barium Hydroxide ---------- **Severe Effect**
Barium Nitrate ---------- Minor Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfate Aqueous Solution (Hot) -------- Minor Effect
Barium Sulfide ---------- **Severe Effect**
Beer ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- Minor Effect
Benzene Sulfonic Acid ---------- Moderate Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- Minor Effect
Benzol ---------- Minor Effect
Benzophenone ---------- Minor Effect
Benzoyl Chloride ---------- **Severe Effect**
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- No Effect
Benzyl Chloride ---------- **Severe Effect**
Benzyl Dichloride ---------- **Severe Effect**
Biphenyl ---------- No Effect
Black Sulfate Liquor ---------- **Severe Effect**

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Blast Furnace Gas ---------- Minor Effect
Bleach, 12.5% Active Chlorine ---------- **Severe Effect**
Borax ---------- **Severe Effect**
Bordeaux Mixture ---------- **Severe Effect**
Boric Acid ---------- No Effect
Brake Fluid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bromochloro Trifluoroethane ---------- **Severe Effect**
Bromochloromethane ---------- **Severe Effect**
Bromotoluene ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- Minor Effect
Butyl Alcohol ---------- No Effect
Butyl Amine ---------- No Effect
Butyl Benzoate ---------- Minor Effect
Butyl Butyrate ---------- No Effect
Butyl Chloride ---------- **Severe Effect**
Butyl Ether ---------- No Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect

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Butyraldehyde ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Butyric Anhydride ---------- No Effect
Calcium Acetate ---------- **Severe Effect**
Calcium Acetate Hydrate ---------- Moderate Effect
Calcium Bisulfate ---------- **Severe Effect**
Calcium Bisulfide ---------- Moderate Effect
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- Moderate Effect
Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- **Severe Effect**
Calcium Hydroxide ---------- **Severe Effect**
Calcium Hydroxide, 10% (Boiling) ---------- **Severe Effect**
Calcium Hydroxide, 20% (Boiling) ---------- **Severe Effect**
Calcium Hydroxide, 50% (Boiling) ---------- **Severe Effect**
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Nitrate ---------- **Severe Effect**
Calcium Oxide ---------- No Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- Moderate Effect
Calcium Sulfate - Saturated ---------- Minor Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- Minor Effect
Camphor ---------- Minor Effect
Cane Juice ---------- Minor Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- No Effect
Capryl Alcohol ---------- No Effect
Caprylic Acid ---------- No Effect
Caprylic Acid (Caprillic Acid) ---------- No Effect
Carbitol ---------- No Effect
Carbolic Acid ---------- Minor Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- No Effect

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Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Carbonated Beverages ---------- Moderate Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Casein ---------- Minor Effect
Castor Oil ---------- No Effect
Catsup ---------- **Severe Effect**
Caustic ---------- **Severe Effect**
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- No Effect
Cellosolve Butyl ---------- Minor Effect
Cellulose Acetate ---------- Minor Effect
Cellulube Hydraulic Fluids ---------- No Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- **Severe Effect**
Chlorinated Solvents, Dry ---------- **Severe Effect**
Chlorinated Solvents, Wet ---------- **Severe Effect**
Chlorine Dioxide ---------- Minor Effect
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine Water ---------- Moderate Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chlorobromomethane ---------- **Severe Effect**
Chlorobutadiene ---------- **Severe Effect**
Chlorodane ---------- **Severe Effect**

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Chlorododecane ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chloropicrin ---------- **Severe Effect**
Chlorosulfonic Acid ---------- Minor Effect
Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorothene ---------- **Severe Effect**
Chlorotoluene ---------- **Severe Effect**
Chlorotrifluoroethylene ---------- Minor Effect
Chlorox ---------- **Severe Effect**
Chocolate Syrup ---------- No Effect
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Cider (Apple Juice) ---------- Minor Effect
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- Minor Effect
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- Minor Effect
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- **Severe Effect**
Cobalt Chloride ---------- **Severe Effect**
Coconut Oil ---------- Minor Effect
Cod Liver Oil ---------- Minor Effect
Coffee ---------- No Effect
Copper Acetate ---------- **Severe Effect**
Copper Acetate, Saturated Solution ---------- **Severe Effect**
Copper Chloride ---------- **Severe Effect**
Copper Cyanide ---------- **Severe Effect**
Copper Fluoborate ---------- **Severe Effect**
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate ---------- **Severe Effect**
Copper Nitrate Hexahydrate ---------- **Severe Effect**
Copper Nitrate, 1% & 5% ---------- **Severe Effect**
Copper Nitrate, 50% Aqueous Solution (Hot) --- **Severe Effect**

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Copper Plating (Cyanide),
Copper Strike Bath 120 F ---------- No Effect
Copper Sulfate ---------- **Severe Effect**
Copper Sulfate, 10% ---------- **Severe Effect**
Copper Sulfate, 5% ---------- **Severe Effect**
Copper Sulphate, Saturated Solution (Boiling) **Severe Effect**
Core Oil ---------- No Effect
Corn Oil ---------- Minor Effect
Cottonseed Oil ---------- Minor Effect
Cream ---------- No Effect
Creosols ---------- Minor Effect
Creosote, Coal-Tar ---------- Minor Effect
Cresol ---------- Minor Effect
Cresylic Acid ---------- Minor Effect
Crotonaldehyde ---------- No Effect
Crude Oil ---------- No Effect
Cumeme ---------- Minor Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Moderate Effect
Cyclohexanone ---------- Minor Effect
Cyclopentane ---------- Minor Effect
D.D.T. ---------- Minor Effect
Denatured Alcohol ---------- Minor Effect
Detergent Solutions ---------- Minor Effect
Dextrose ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- Minor Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dichloro Isopropyl Ether ---------- **Severe Effect**
Dichloro-Butane ---------- **Severe Effect**

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Dichlorobutane ---------- **Severe Effect**
Dichloroethane ---------- **Severe Effect**
Dichloroethyl Ether ---------- **Severe Effect**
Dichloropenthane ---------- **Severe Effect**
Dichlorophenol ---------- **Severe Effect**
Dicyclohexylamine ---------- **Severe Effect**
Diemethyl Formamide ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diester Synthetic Oils ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- Minor Effect
Diethyl Ether ---------- Minor Effect
Diethyl Phthalate ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Difluorodibromomethane ---------- **Severe Effect**
Diisobutyl Ketone ---------- No Effect
Diisobutylene ---------- Minor Effect
Diisooctyl Adipate ---------- No Effect
Diisopropyl Ketone ---------- No Effect
Dimethyl Ether ---------- Minor Effect
Dimethyl Sulfide ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dioxane ---------- Minor Effect
Dipentene ---------- No Effect
Diphenyl ---------- No Effect
Diphenyl Oxide ---------- Minor Effect
Dipsersing Oil #10 ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dow Corning (Silicones) ---------- No Effect

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Dowtherm (Biphenyl & Phenyl Ether) ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- Minor Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- Minor Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- Minor Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- Minor Effect
Ethyl Amine ---------- Minor Effect
Ethyl Benzene ---------- Minor Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- **Severe Effect**
Ethyl Butyrate ---------- Minor Effect
Ethyl Cellose ---------- No Effect
Ethyl Cellulose ---------- Minor Effect
Ethyl Chloride ---------- **Severe Effect**
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- Minor Effect
Ethyl Mercaptan ---------- Minor Effect
Ethyl Pentachlorobenzene ---------- **Severe Effect**
Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- Minor Effect
Ethylene ---------- No Effect

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Ethylene Chloride ---------- Moderate Effect
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Diamine ---------- Moderate Effect
Ethylene Dibromide ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monobutyl ---------- No Effect
Ethylene Glycol Monoethyl ---------- No Effect
Ethylene Glycol Monomethyl ---------- Minor Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Oxide ---------- No Effect
Ethylene Trichloride ---------- **Severe Effect**
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- **Severe Effect**
Fatty Acids ---------- No Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- **Severe Effect**
Ferric Sulphate 1% to 5% ---------- **Severe Effect**
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- No Effect
Ferrous Sulfate (Copperas) ---------- No Effect
Ferrous Sulfate (Saturated) ---------- **Severe Effect**
Ferrous Sulfate, 10% Solution ---------- **Severe Effect**
Fish Liver Oils ---------- No Effect
Fluoboric Acid ---------- **Severe Effect**
Fluorboric Acid ---------- **Severe Effect**
Fluoride (Dry) ---------- **Severe Effect**
Fluorinated Cyclic Ether ---------- **Severe Effect**
Fluorine ---------- **Severe Effect**

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Fluorine (Liquid) ---------- No Effect
Fluorobenzene ---------- **Severe Effect**
Fluorolube ---------- No Effect
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- Minor Effect
Formamide ---------- No Effect
Formic Acid ---------- **Severe Effect**
Formic Acid (Dilute Cold) ---------- No Effect
Formic Acid (Dilute Hot) ---------- Minor Effect
Freon 11 ---------- **Severe Effect**
Freon 112 ---------- **Severe Effect**
Freon 113 ---------- **Severe Effect**
Freon 114 ---------- **Severe Effect**
Freon 114B2 ---------- **Severe Effect**
Freon 115 ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Freon 13 ---------- **Severe Effect**
Freon 13B1 ---------- **Severe Effect**
Freon 14 ---------- **Severe Effect**
Freon 142b ---------- **Severe Effect**
Freon 152a ---------- **Severe Effect**
Freon 21 ---------- **Severe Effect**
Freon 218 ---------- **Severe Effect**
Freon 22 ---------- **Severe Effect**
Freon 31 ---------- **Severe Effect**
Freon 32 ---------- **Severe Effect**
Freon 502 ---------- **Severe Effect**
Freon C316 ---------- **Severe Effect**
Freon T-P35 ---------- **Severe Effect**
Freon T-WD602 ---------- **Severe Effect**
Freon T.F. ---------- **Severe Effect**
Freon TA ---------- **Severe Effect**
Freon TC ---------- **Severe Effect**
Freon TMC ---------- **Severe Effect**
Freon, BF ---------- **Severe Effect**

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Freon, C318 ---------- **Severe Effect**
Freon, K-142B ---------- **Severe Effect**
Freon, K-152A ---------- **Severe Effect**
Freon, MF ---------- **Severe Effect**
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- **Severe Effect**
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Gasoline (Sour) ---------- **Severe Effect**
Gasoline (Unleaded) ---------- No Effect
Gelatin ---------- No Effect
Gluconic Acid ---------- Minor Effect
Glucose ---------- No Effect
Glue ---------- Minor Effect
Glutamic Acid ---------- **Severe Effect**
Glycerine or Glycerol ---------- No Effect
Glycols ---------- Minor Effect
Grape Juice ---------- Minor Effect
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- Minor Effect
Halowax Oil ---------- **Severe Effect**
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexanal ---------- No Effect

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Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- **Severe Effect**
Hydrochloric Acid (Dilute) ---------- **Severe Effect**
Hydrochloric Acid (Dry Gas) ---------- **Severe Effect**
Hydrochloric Acid 20% ---------- **Severe Effect**
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid, (Conc) ---------- Moderate Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Cyanide Gas ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- **Severe Effect**
Hydrogen Gas ---------- No Effect

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Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- **Severe Effect**
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 3% ---------- No Effect
Hydrogen Peroxide, 30% ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Hydrogen Sulfide (Dry) ---------- **Severe Effect**
Hydrogen Sulfide Dry, Cold ---------- Minor Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- Minor Effect
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hydroquinone ---------- Minor Effect
Hydroxyacetic Acid, 10% ---------- Minor Effect
Hydroxyacetic Acid, 70% ---------- **Severe Effect**
Hypochlorous Acid ---------- **Severe Effect**
Illuminating Gas ---------- No Effect
Ink ---------- Moderate Effect
Iodine ---------- **Severe Effect**
Iodoform ---------- No Effect
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isoamyl Chloride ---------- **Severe Effect**
Isobutyl Acetate ---------- No Effect
Isobutyl Alcohol ---------- No Effect
Isobutyl Chloride ---------- Minor Effect
Isobutyric Acid ---------- No Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isophorone ---------- No Effect
Isopropanol ---------- Minor Effect
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- No Effect
Isopropyl Chloride ---------- **Severe Effect**
Isopropyl Ether ---------- Minor Effect
Isotane ---------- No Effect

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Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Jet Fuels (JP1 to JP6) ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect

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ALUMINUM (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kerosene	No Effect
Ketones	Minor Effect
Keystone #87HX-Grease	No Effect
Lacquer Solvents	**Severe Effect**
Lacquers	**Severe Effect**
Lactic Acid	Moderate Effect
Lactic Acid 10% Solution (Boiling)	**Severe Effect**
Lactic Acid, 5% Solution	No Effect
Lactol	No Effect
Lard	No Effect
Lard Oil	No Effect
Lard Oil (Cold)	No Effect
Lard Oil (Hot)	No Effect
Latex	No Effect
Lauryl Alcohol	No Effect
Lead Acetate	**Severe Effect**
Lead Chloride	**Severe Effect**
Lead Nitrate	**Severe Effect**
Lemon Oil	No Effect
Light Grease	No Effect
Ligroin	**Severe Effect**
Lime	Moderate Effect
Lime Bleach	**Severe Effect**
Lime Slurries	Minor Effect
Lime Sulfur	**Severe Effect**
Lindol	No Effect
Linoleic Acid	No Effect
Linseed Oil	Minor Effect
Lithium Hydroxide	**Severe Effect**
Lubricants	No Effect
Lubricating Oil Di-Ester	No Effect
Lubricating Oil Petroleum Base	No Effect

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Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Lubricating Oils ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- **Severe Effect**
Magnesium Hydorxide ---------- **Severe Effect**
Magnesium Hydroxide ---------- **Severe Effect**
Magnesium Hydroxide (Hot) ---------- **Severe Effect**
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- Minor Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- Minor Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- Moderate Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- **Severe Effect**
Mash ---------- No Effect
Mayonnaise ---------- **Severe Effect**
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercuric Cyanide ---------- **Severe Effect**
Mercurous Nitrate ---------- **Severe Effect**
Mercury ---------- **Severe Effect**
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- Minor Effect
Methyl Acetone ---------- No Effect
Methyl Alcohol ---------- Minor Effect
Methyl Alcohol, 10% ---------- Moderate Effect
Methyl Amine ---------- Minor Effect
Methyl Amyl Acetate ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Butyrate ---------- No Effect

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Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Chloroformate ---------- **Severe Effect**
Methyl D-Bromide ---------- **Severe Effect**
Methyl Dichloride ---------- **Severe Effect**
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- Minor Effect
Methyl Formate ---------- No Effect
Methyl Iodide ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- Minor Effect
Methyl Salicylate ---------- No Effect
Methylamine ---------- Minor Effect
Methylene Bromide ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Methylene Dichloride ---------- **Severe Effect**
Milk ---------- No Effect
Mine Water ---------- Minor Effect
Mineral Oils ---------- No Effect
Mixed Acids ---------- **Severe Effect**
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- No Effect
Monochloracetic Acid ---------- **Severe Effect**
Monochlorobenzene ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- **Severe Effect**
Monoethanolamine ---------- Minor Effect
Monomethylaniline ---------- Minor Effect
Mustard ---------- Minor Effect
N,N-Dimethyl Formamide ---------- No Effect
N,N-Dimethylaniline ---------- Minor Effect
n-Butyl Acetate ---------- No Effect

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N-Hexaldehyde ---------- No Effect
n-Hexane ---------- No Effect
N-Pentane ---------- Minor Effect
n-Propyl Acetate ---------- No Effect
n-Propyl Nitrate ---------- No Effect
Naphtha Coal Tar (Benzol) ---------- No Effect
Naphtha, Petroleum ---------- No Effect
Naphthalene ---------- Minor Effect
Naphthoic Acid ---------- Minor Effect
Naptha ---------- No Effect
Naptha-Coal Tar (Benzol) ---------- No Effect
Napthalene ---------- Minor Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Neosol ---------- Minor Effect
Nickel Acetate ---------- Minor Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- **Severe Effect**
Nickel Sulfate ---------- **Severe Effect**
Nicotine ---------- Minor Effect
Nicotinic Acid ---------- Minor Effect
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- Minor Effect
Nitric Acid (Red Fuming) ---------- No Effect
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- No Effect
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 25% ---------- **Severe Effect**
Nitric Acid, 35% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitriding Gases ---------- No Effect

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Nitrobenzene ---------- Moderate Effect
Nitroethane ---------- No Effect
Nitrogen Tetroxide ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- **Severe Effect**
Nitrous Gases ---------- Minor Effect
Nitrous Oxide ---------- Minor Effect
O-Chloronaphthalene ---------- **Severe Effect**
o-Chlorophenol ---------- Minor Effect
O-Chlorphenol ---------- **Severe Effect**
o-Dichlorobenzene ---------- **Severe Effect**
o-Dichlorobenzene ---------- **Severe Effect**
Octachlorotoluene ---------- No Effect
Octyl Acetate ---------- No Effect
Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect
Oleic Acid ---------- Minor Effect
Olein ---------- Minor Effect
Oleum ---------- Minor Effect
Oleum (Fuming Sulfuric Acid) ---------- Minor Effect
Oleum Spirits ---------- **Severe Effect**
Olive Oil ---------- No Effect
Oxalic Acid ---------- Moderate Effect
Oxalic Acid, 10% Solution ---------- No Effect
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- No Effect
Oxygen, Cold ---------- No Effect
Ozone ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- Minor Effect
P-Dichlorobenzene ---------- **Severe Effect**
Paint Thinner, DUCO ---------- **Severe Effect**
Paints & Solvents ---------- **Severe Effect**
Palm Oil ---------- No Effect

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Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Pentachloroethane ---------- **Severe Effect**
Pentachlorophenol ---------- No Effect
Penthane ---------- No Effect
Perchloric Acid ---------- **Severe Effect**
Perchloroethylene ---------- **Severe Effect**
Permachlor (Degreasing Fluid) ---------- No Effect
Petrolatum ---------- Minor Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- Minor Effect
Phenethyl Alcohol ---------- No Effect
Phenol ---------- Minor Effect
Phenol (Carbolic Acid) ---------- Minor Effect
Phenol Sulfonic Acid ---------- Minor Effect
Phenol, 10% ---------- No Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phenyl Hydrazine ---------- No Effect
Phosphoric Acid (Conc) ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid Air Free ---------- **Severe Effect**
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 20% ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphoric Anhydride (Molten) ---------- **Severe Effect**
Phosphorous ---------- Minor Effect
Phosphorus Oxychloride ---------- Minor Effect

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Phosphorus Oxychloride ---------- Minor Effect
Phosphorus Trichloride ---------- Moderate Effect
Photographic Solutions ---------- Moderate Effect
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- Minor Effect
Picric Acid ---------- Moderate Effect
Picric Acid, H2O Solution ---------- **Severe Effect**
Pine Oil ---------- No Effect
Pneumatic Service ---------- No Effect
Potash ---------- Moderate Effect
Potassium Acetate ---------- **Severe Effect**
Potassium Bicarbonate ---------- Moderate Effect
Potassium Bisulfate ---------- No Effect
Potassium Bisulfite ---------- Minor Effect
Potassium Bromide ---------- **Severe Effect**
Potassium Carbonate ---------- **Severe Effect**
Potassium Chlorate ---------- **Severe Effect**
Potassium Chloride ---------- **Severe Effect**
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- **Severe Effect**
Potassium Cyanide ---------- Moderate Effect
Potassium Dichromate ---------- Minor Effect
Potassium Diphosphate ---------- **Severe Effect**
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanide ---------- Moderate Effect
Potassium Ferrocyanine ---------- Minor Effect
Potassium Hydroxide ---------- **Severe Effect**
Potassium Hydroxide, 27% Solution (Boiling) -- **Severe Effect**
Potassium Hydroxide, 5% Solution ---------- **Severe Effect**
Potassium Hydroxide, 50% ---------- **Severe Effect**
Potassium Hydroxide, 50% Solution (Boiling) -- **Severe Effect**
Potassium Hydroxide, 70% Solution ---------- **Severe Effect**
Potassium Hydroxide, 70% Solution (Hot) ------ **Severe Effect**
Potassium Iodide ---------- Minor Effect
Potassium Monophosphates ---------- **Severe Effect**
Potassium Nitrate ---------- Minor Effect

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Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Peroxide ---------- Minor Effect
Potassium Phosphate ---------- **Severe Effect**
Potassium Silicate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- **Severe Effect**
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- Minor Effect
Potassium Triphosphate ---------- **Severe Effect**
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propionaldehyde ---------- No Effect
Propionic Acid ---------- Minor Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- **Severe Effect**
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- Minor Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Minor Effect
Quench Oil ---------- No Effect
Resins and Rosins ---------- No Effect
Rosin ---------- Minor Effect
Rubber Latex Emulsions ---------- No Effect
Rubber Solvents ---------- No Effect
Sal Ammoniac ---------- **Severe Effect**

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Sal Soda ---------- **Severe Effect**
Salad Dressing ---------- Minor Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- **Severe Effect**
Santo Safe 300 ---------- No Effect
Sea Water ---------- **Severe Effect**
Sesame Seed Oil ---------- No Effect
Sewage ---------- **Severe Effect**
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone ---------- Minor Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- Minor Effect
Silver Bromide ---------- **Severe Effect**
Silver Chloride ---------- No Effect
Silver Cyanide ---------- **Severe Effect**
Silver Nitrate ---------- **Severe Effect**
Soap Solutions ---------- **Severe Effect**
Soaps ---------- Moderate Effect
Soda Ash ---------- **Severe Effect**
Sodium Acetate ---------- Minor Effect
Sodium Aluminate ---------- Moderate Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- Moderate Effect
Sodium Bromide ---------- Moderate Effect
Sodium Carbonate ---------- **Severe Effect**
Sodium Chlorate ---------- **Severe Effect**
Sodium Chloride ---------- **Severe Effect**
Sodium Chloride, 2% Solution ---------- **Severe Effect**
Sodium Chloride, 5% Solution ---------- **Severe Effect**
Sodium Chloride, Saturated Solution ---------- **Severe Effect**

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Sodium Chloride, Saturated Solution (Boiling) **Severe Effect**
Sodium Chromate ---------- **Severe Effect**
Sodium Citrate ---------- **Severe Effect**
Sodium Cyanide ---------- **Severe Effect**
Sodium Fluoride ---------- Moderate Effect
Sodium Hexametaphosphate ---------- Moderate Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- **Severe Effect**
Sodium Hydroxide, 20% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 20% Solution (Hot) ---------- **Severe Effect**
Sodium Hydroxide, 50% ---------- **Severe Effect**
Sodium Hydroxide, 50% Solution (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 70% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 80% ---------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) ---------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- Moderate Effect
Sodium Hypochlorite, 20% ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Hyposulfate ---------- **Severe Effect**
Sodium Metaphosphate ---------- **Severe Effect**
Sodium Metasilicate ---------- Minor Effect
Sodium Metasilicate (Cold) ---------- Minor Effect
Sodium Monophosphate ---------- Minor Effect
Sodium Nitrate ---------- Minor Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Nitrite ---------- No Effect
Sodium Perborate ---------- **Severe Effect**
Sodium Peroxide ---------- Moderate Effect
Sodium Phosphate ---------- **Severe Effect**
Sodium Polyphosphate ---------- **Severe Effect**
Sodium Silicate ---------- Moderate Effect
Sodium Silicate (Hot) ---------- **Severe Effect**
Sodium Silicate (Water Glass) ---------- **Severe Effect**

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Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- **Severe Effect**
Sodium Sulfite ---------- Moderate Effect
Sodium Sulfite, 10% Solution @ 150 F --------- Minor Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphide ---------- **Severe Effect**
Sodium Thiosulfate ---------- **Severe Effect**
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- **Severe Effect**
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Stanous Chloride, 15% ---------- **Severe Effect**
Starch ---------- No Effect
Steam, Above 350 F ---------- Minor Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- Minor Effect
Steric Acid ---------- Moderate Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfamic Acid ---------- No Effect
Sulfate Black Liquor ---------- **Severe Effect**
Sulfate Green Liquor ---------- **Severe Effect**
Sulfate Liquors ---------- Minor Effect
Sulfite Liquors ---------- **Severe Effect**
Sulfur ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- No Effect

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Sulfuric Acid (Aerated) No Velocity ---------- **Severe Effect**
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Conc) ------------------------- **Severe Effect**
Sulfuric Acid (Fuming) ----------------------- Moderate Effect
Sulfuric Acid, 10% --------------------------- **Severe Effect**
Sulfuric Acid, 25% --------------------------- **Severe Effect**
Sulfuric Acid, 50% --------------------------- **Severe Effect**
Sulfuric Acid, 60% --------------------------- **Severe Effect**
Sulfuric Acid, 75% --------------------------- **Severe Effect**
Sulfuric Acid, 85% --------------------------- **Severe Effect**
Sulfuric Acid, 95% --------------------------- **Severe Effect**
Sulfurous Acid ------------------------------- Moderate Effect
Sulphuric Acid, 10% Solution ----------------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% --------------------------- **Severe Effect**
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ----------------------- **Severe Effect**
Sulphurous Acid - Saturated ------------------ **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ----------- No Effect
Syrup -- No Effect
Talc Oil ------------------------------------- Minor Effect
Tall Oil (Liquid Rosin) ---------------------- **Severe Effect**
Tallow --------------------------------------- No Effect
Tannic Acid ---------------------------------- Moderate Effect
Tanning Liquors ------------------------------ Moderate Effect
Tar and Tar Oil ------------------------------ No Effect
Tar, Bituminous ------------------------------ No Effect
Tarpenes ------------------------------------- No Effect
Tartaric Acid -------------------------------- Moderate Effect
Terpineol ------------------------------------ No Effect
Tertiary Butyl Catechol ---------------------- Moderate Effect

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Tetra Bromomethane ---------- **Severe Effect**
Tetrachloroethane ---------- **Severe Effect**
Tetrachloroethylene ---------- **Severe Effect**
Tetraethyl Lead ---------- Minor Effect
Tetrahydrofuran ---------- **Severe Effect**
Tetrahydronaphthalene ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Thionyl Chloride ---------- Moderate Effect
Titanium Tetrachloride ---------- **Severe Effect**
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- Minor Effect
Transformer Oil ---------- No Effect
Transmission Fluid ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triacetin ---------- Minor Effect
Tributyl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Trichloromonofluoroethane (Freon 17) --------- **Severe Effect**
Trichloropropane ---------- **Severe Effect**
Trichlorotrifluoroethane (Freon 113) --------- **Severe Effect**
Tricresolphosphate ---------- **Severe Effect**
Triethanolamine ---------- No Effect
Trifluoroethane ---------- **Severe Effect**
Trimethylene Glycol ---------- No Effect
Trinitrotoluene ---------- **Severe Effect**
Triphenyl Phosphsite ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect

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Turbo Oil #35 ---------- No Effect
Turpentine ---------- Moderate Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Urea ---------- Minor Effect
Uric Acid ---------- **Severe Effect**
Urine ---------- Minor Effect
Valeric Acid ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- **Severe Effect**
Vegetable Oil (Hot) ---------- No Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- **Severe Effect**
Vinyl Acetate ---------- Minor Effect
Vinyl Chloride ---------- **Severe Effect**
Water ---------- No Effect
Water Acid, Mine ---------- Moderate Effect
Water, Acid Mine ---------- **Severe Effect**
Water, Distilled ---------- Minor Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- **Severe Effect**
Waxes ---------- No Effect
Weed Killers ---------- **Severe Effect**
Whey ---------- Minor Effect
Whiskey ---------- **Severe Effect**
White Sulfate Liquor ---------- Minor Effect
Wines ---------- Moderate Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Wort, Distillery ---------- No Effect
Xenon ---------- No Effect

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Xylene	No Effect
Xylidines	Minor Effect
Zinc Acetate	Moderate Effect
Zinc Carbonate	Minor Effect
Zinc Chloride	**Severe Effect**
Zinc Chloride, 5% Solution	**Severe Effect**
Zinc Hydrosulfite	**Severe Effect**
Zinc Sulfate	**Severe Effect**
Zinc Sulfate, 25% Solution (Boiling)	**Severe Effect**
Zinc Sulfate, 5% Solution	**Severe Effect**
Zinc Sulfate, Saturated Solution	**Severe Effect**

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Aluminum (Chrome 5% Sol.)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
TEFLON	No Effect

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Aluminum Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	Moderate Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Aluminum Ammonium Sulfate

Material Compatibility

MATERIAL	EFFECT
ACRYLIC	No Effect
BUNA	Minor Effect
HYPALON	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Aluminum Bromide

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Aluminum Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	**Severe Effect**
HYPALON	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide) ---------- **Severe Effect**
PHENOLIC ---------- **Severe Effect**
POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- Minor Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- Moderate Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Aluminum Chloride, 20%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Aluminum Fluoride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Aluminum Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect

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PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Aluminum Hydroxide - Saturated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Aluminum Nitrate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Nitride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Palmitate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect

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Aluminum Phosphate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Potassium Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Potassium Sulfate (Alum), 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Potassium Sulfate (Alum), 100%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	Moderate Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Aluminum Potassium Sulfate, 10% Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Potassium Sulfate, 2% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Potassium Sulfate, Saturated Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Aluminum Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
VITON	No Effect

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Aluminum Sodium Sulfate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aluminum Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Alums

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
ETHYLENE PROPYLENE	No Effect
HYPALON	No Effect
NORPRENE	No Effect
NYLON (Polyamide)	Moderate Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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AMERSEP MP-7

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NYLON (Polyamide)	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICONE	No Effect

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TEFLON ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Amines

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	Minor Effect
PVC	**Severe Effect**
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
TITANIUM	Minor Effect
TYGON (E-3606)	No Effect
VINYL	**Severe Effect**

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VITON ---------- **Severe Effect**

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Ammonia

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
HYPALON	**Severe Effect**
NORYL	No Effect
PHENOLIC	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ammonia Gas, Cold

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Ammonia Gas, Hot

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ammonia Liquors

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CAST IRON	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ammonia, 10%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CERAMIC	No Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Ammonia, Anhydrous, Liquid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	**Severe Effect**
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect

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POLYACETAL ---------- **Severe Effect**
POLYETHYLENE ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- Minor Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- **Severe Effect**

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Ammonia, Aqueous 30%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
ECTFE	No Effect
EPT	Minor Effect
HASTELLOY C	Minor Effect
MONEL	No Effect
NORYL	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect

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Ammonia, Liquids

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	Minor Effect
RUBBER (Natural)	**Severe Effect**
SILICON	Minor Effect
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VITON	**Severe Effect**

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Ammonia, Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VITON	**Severe Effect**

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Ammonium Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	Minor Effect
CAST IRON	Minor Effect
NEOPRENE	No Effect
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Bicarbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Ammonium Bifluoride, 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Moderate Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Carbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Ammonium Casenite

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
NORYL	No Effect
POLYACETAL	**Severe Effect**
SILICON	No Effect
TEFLON	No Effect

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Ammonium Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Moderate Effect
HYPALON	Minor Effect
MONEL	Minor Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect

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RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	Minor Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	Minor Effect

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Ammonium Chloride, 1%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Chloride, 10% Solution Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect

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Ammonium Chloride, 28% Solution Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect

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Ammonium Chloride, 50% Solution Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect

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Ammonium Cupric Sulfate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Dichromate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Ammonium Dihydrogen Phosphate

Material Compatibility

MATERIAL	EFFECT
ECTFE	No Effect
HYPALON	No Effect
MONEL	No Effect
NORYL	No Effect
POLYETHYLENE	No Effect

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Ammonium Diphosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Fluoride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	Moderate Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Ammonium Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	**Severe Effect**
NEOPRENE	Minor Effect
NORPRENE	No Effect

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NORYL ---------- No Effect
NYLON (Polyamide) ---------- No Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- **Severe Effect**
POLYCARBONATE (LEXAN) ---------- **Severe Effect**
POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- Minor Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- Minor Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- Moderate Effect
VITON ---------- **Severe Effect**

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Ammonium Hydroxide, 3 Molar

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ammonium Hydroxide, Concentrated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ammonium Metaphosphate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Monophosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Moderate Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Ammonium Nitrite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Oxalate

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYACETAL	Minor Effect
TEFLON	No Effect

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Ammonium Oxalate, 5% Sol.

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
KALREZ	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	No Effect
TEFLON	No Effect

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Ammonium Persulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect

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TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Ammonium Persulfate, 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
TEFLON	No Effect

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Ammonium Persulfate, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
TEFLON	No Effect

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Ammonium Phosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect

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Ammonium Phosphate, Di-Basic

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYACETAL	Minor Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Minor Effect
TEFLON	No Effect

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TITANIUM ---------- No Effect
VITON ---------- No Effect

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Ammonium Phosphate, Monobasic

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
SILICON	Minor Effect
TEFLON	No Effect
TITANIUM	No Effect

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TYGON (E-3606) ---------- No Effect

VITON ---------- No Effect

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Ammonium Phosphate, Tri-Basic

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
SILICON	Minor Effect

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TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- No Effect

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Ammonium Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect

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Ammonium Sulfamate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	No Effect

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Ammonium Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Moderate Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Minor Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	No Effect
POLYACETAL	Minor Effect

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POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- Minor Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Ammonium Sulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ammonium Sulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ammonium Sulphate 1%-5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Sulphate 10% Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
FLOURAZ	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Ammonium Sulphate Plus 5% Sulfuric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
FLOURAZ	**Severe Effect**
TEFLON	No Effect

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Ammonium Sulphate Saturated (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
FLOURAZ	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Ammonium Sulphite (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Ammonium Thiocyanate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ammonium Thiosulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYACETAL	Minor Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Ammonium Triphosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Amyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	Moderate Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	Minor Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect

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POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Amyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NORYL	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect

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RUBBER (Natural) ---------- Moderate Effect
SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- **Severe Effect**

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Amyl Borate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Amyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NORYL	Moderate Effect
POLYACETAL	No Effect
POLYACETAL	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect

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RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- No Effect

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Amyl Chloronaphthalene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Amyl Naphthalene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Amyl Phenol

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	No Effect

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AN-O-3 Grade M

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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AN-O-366

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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AN-O-6

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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AN-VV-O-366b Hydr. Fluid

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	Minor Effect

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Anderol, L-774 (Di-Ester)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Anderol, L-826 (Di-Ester)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Anderol, L-829 (Di-Ester)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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ANG-25 (Di-Ester Base) (TG749)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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ANG-25 (Glyceral Ester)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Anhydrous Ammonia

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Anhydrous Hydrazine

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Anhydrous Hydrogen Fluoride

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Aniline

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	Moderate Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYACETAL	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	**Severe Effect**

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POLYETHYLENE HIGH DENSITY ---------- Minor Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- Moderate Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Aniline Dyes

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Moderate Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Aniline Hydrochloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Aniline Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	**Severe Effect**

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Aniline Sulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
COPPER	Minor Effect

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Animal Fats & Oils

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Animal Gelatin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Anise Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect

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Anisole

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ansul Ether

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Anthraquinone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Anti-Freeze (Alcohol Base)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Anti-Freeze (Glycol Base)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Antimony Chloride

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
KALREZ	No Effect

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Antimony Pentachloride

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect

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Antimony Trichloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
TYGON (E-3606)	No Effect
VITON	No Effect

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Aqua Ammonia

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HYPALON	No Effect
POLYETHYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	**Severe Effect**

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Aqua Regia

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Moderate Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	Moderate Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	**Severe Effect**

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TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- Moderate Effect
VITON ---------- Minor Effect

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Argon

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Aristo Wax

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
NEOPRENE	No Effect

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Arochlor 1248

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Arochlor 1254

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
VITON	No Effect

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Arochlor 1260

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
NEOPRENE	No Effect
VITON	No Effect

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Aroclor

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Aromatic Fuel 30% Mil.

Material Compatibility

MATERIAL	EFFECT
FLOURAZ	No Effect
KALREZ	No Effect
VITON	No Effect

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Aromatic Fuel 50%

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Aromatic Hydrocarbons

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE	Moderate Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Aromatic Solvents

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Arsenic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect

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PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Arsenic Trichloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Arsenious Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Ascorbic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Askarel

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Asphalt

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect

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SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Asphalt Topping

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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ASTM, Red Motor Fuel A

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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ASTM, Red Motor Fuel B

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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ASTM, Red Motor Fuel C

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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ASTM, Ref #1 Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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ASTM, Ref #2 Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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ASTM, Ref #3 Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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ASTM, Ref #4 Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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ATL-857

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Atlantic Dominion F

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Aurex 903R (Mobil)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Automatic Brake Fluid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Automatic Transmission Fluid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Automotive Gasoline (Standard)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Aviation Gasoline

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	No Effect

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Baking Enamels, Synthetic

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
TEFLON	No Effect
VITON	No Effect

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Banana Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
TEFLON	No Effect

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Barbecue Sauce

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect

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Bardol B

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Barium Carbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect

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TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VITON ---------- No Effect

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Barium Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	Minor Effect
POLYACETAL	No Effect

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POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- Minor Effect

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Barium Chloride Aqueous Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Barium Chloride Dihydrate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Barium Chloride, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Barium Cyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Barium Fluoride

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
HYPALON	Moderate Effect
NORYL	No Effect
PHENOLIC	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Barium Hydrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Barium Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- Minor Effect
VITON ---------- No Effect

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Barium Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON	**Severe Effect**
CARBON STEEL	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	**Severe Effect**
NEOPRENE	No Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect

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TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- Minor Effect

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Barium Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Barium Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	Minor Effect
CERAMIC ALUMINA	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect
POLYACETAL	No Effect

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POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RYTON	No Effect
SILICON	**Severe Effect**
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VINYL	No Effect
VITON	Minor Effect

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Barium Sulfate Aqueous Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Barium Sulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Moderate Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect

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RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- Moderate Effect
VITON ---------- No Effect

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Bay Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
VITON	No Effect

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Bayol 35

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Bayol D

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Beef Extract

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CAST IRON	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Beer

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect

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VINYL ---------- No Effect
VITON ---------- No Effect

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Beer (Alcohol Ind.)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Beer (Beverage Ind.)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Beet Sugar Liquids

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CYCOLAC (ABS)	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Beet Sugar Liquors

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HYPALON	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	No Effect

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SILICONE ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Benzaldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	Moderate Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**

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PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Benzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect

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SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- No Effect

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Benzene Sulfonic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	Moderate Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Benzine (Gasoline)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	Minor Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Benzochloride

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
VITON	No Effect

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Benzoic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	Moderate Effect
CERAMIC ALUMINA	Minor Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	Minor Effect
NORPRENE	**Severe Effect**
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**

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PHENOLIC ---------- Moderate Effect
POLYACETAL ---------- Minor Effect
POLYCARBONATE (LEXAN) ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Moderate Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICONE ---------- Minor Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- Moderate Effect
VITON ---------- Moderate Effect

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Benzol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	Minor Effect

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Benzophenone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
KALREZ	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Benzoyl Chloride

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Benzyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Benzyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Benzyl Benzoate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Benzyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Benzyl Dichloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	Minor Effect
TEFLON	No Effect

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Bichloride of Mercury

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect

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Biphenyl

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Bismuth Carbonate

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect

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Bismuth Subcarbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
BUNA	No Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Black Liquor

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
ETHYLENE PROPYLENE	Minor Effect
HYPALON	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
SILICONE	Minor Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Black Point 77

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Black Sulfate Liquor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Blast Furnace Gas

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Bleach Liquor

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Bleach Solutions

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Bleach, 12.5% Active Chlorine

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	Minor Effect

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Bleaching Powder (Wet)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
COPPER	Minor Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Blood (Meat Juices-Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
BUNA	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Bone Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
VITON	No Effect

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Borax

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Bordeaux Mixture

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Boric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	Minor Effect
COPPER	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	**Severe Effect**
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**

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PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	Moderate Effect

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Boron Fuels (HEF)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Brake Fluid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	No Effect
NORYL	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Brake Fluid (Non-Petroleum)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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BRASS

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetate Solvents	Moderate Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 20%	Moderate Effect
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 5%	Moderate Effect
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	No Effect
Acetylene (Ethyne)	Minor Effect
Acrylonitrile	No Effect
Alcohol	No Effect
Alcohol, Amyl	Minor Effect
Alcohol, Benzyl	Moderate Effect
Alcohol, Butyl	Moderate Effect
Alcohol, Diacetone	Moderate Effect
Alcohol, Ethyl	Moderate Effect
Alcohol, Hexyl	Moderate Effect
Alcohol, Isobutyl	Moderate Effect
Alcohol, Isopropyl	Moderate Effect
Alcohol, Methyl	Moderate Effect
Alcohol, Octyl	Moderate Effect
Alcohol, Propyl	No Effect

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Aluminum Chloride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Sulfate ---------- Moderate Effect
Alums ---------- **Severe Effect**
AMERSEP MP-7 ---------- **Severe Effect**
Ammonia, Anhydrous, Liquid ---------- **Severe Effect**
Ammonium Chloride ---------- **Severe Effect**
Ammonium Chloride ---------- Moderate Effect
Ammonium Chloride, 1% ---------- **Severe Effect**
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Dichromate ---------- **Severe Effect**
Ammonium Diphosphate ---------- **Severe Effect**
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Monophosphate ---------- **Severe Effect**
Ammonium Nitrate ---------- **Severe Effect**
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- **Severe Effect**
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Plus 5% Sulfuric Acid ------ **Severe Effect**
Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Ammonium Triphosphate ---------- **Severe Effect**
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- **Severe Effect**
Arsenic Acid ---------- Minor Effect
Asphalt ---------- Minor Effect
Barium Cyanide ---------- **Severe Effect**

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Barium Hydroxide ---------- **Severe Effect**
Barium Sulfide ---------- **Severe Effect**
Beer ---------- Minor Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- **Severe Effect**
Beet Sugar Liquors ---------- **Severe Effect**
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzene ---------- No Effect
Benzoic Acid ---------- **Severe Effect**
Benzol ---------- No Effect
Black Sulfate Liquor ---------- **Severe Effect**
Bleaching Powder (Wet) ---------- **Severe Effect**
Borax ---------- **Severe Effect**
Boric Acid ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Butadiene ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Buttermilk ---------- **Severe Effect**
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Calcium Bisulfate ---------- **Severe Effect**
Calcium Bisulfite ---------- **Severe Effect**
Calcium Chloride ---------- **Severe Effect**
Calcium Hydroxide, 10% (Boiling) ---------- **Severe Effect**
Calcium Hydroxide, 20% (Boiling) ---------- **Severe Effect**
Calcium Hydroxide, 50% (Boiling) ---------- **Severe Effect**
Calcium Hypochlorite ---------- **Severe Effect**
Cane Juice ---------- Moderate Effect
Cane Sugar Liquors ---------- Minor Effect
Carbolic Acid ---------- **Severe Effect**
Carbon Bisulfide ---------- Minor Effect

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Carbon Dioxide ---------- Moderate Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Tetrachloride ---------- No Effect
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonated Water ---------- **Severe Effect**
Carbonic Acid ---------- **Severe Effect**
Castor Oil ---------- No Effect
Chlorine Gas - 100 Degrees C ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Water ---------- **Severe Effect**
Chlorine, Dry ---------- Minor Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chromic Acid, 10% ---------- **Severe Effect**
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Citric Acid ---------- **Severe Effect**
Citric Acid ---------- Moderate Effect
Citric Acid, 15% Solution ---------- **Severe Effect**
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- Minor Effect
Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Copper Acetate ---------- **Severe Effect**
Copper Cyanide ---------- **Severe Effect**
Copper Nitrate, 1% & 5% ---------- **Severe Effect**
Copper Nitrate, 50% Aqueous Solution (Hot) --- **Severe Effect**
Copper Sulfate ---------- **Severe Effect**
Copper Sulfate, 5% ---------- **Severe Effect**
Copper Sulphate, Saturated Solution (Boiling) **Severe Effect**
Core Oil ---------- **Severe Effect**

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Cottonseed Oil ---------- No Effect
Creosote, Coal-Tar ---------- **Severe Effect**
Creosote, Wood-Tar ---------- **Severe Effect**
Cresol ---------- Moderate Effect
Crude Oil ---------- Moderate Effect
Cyclohexane ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Ether ---------- No Effect
Dyes ---------- No Effect
Epsom Salts ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- Minor Effect
Ethyl Alcohol ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethylene Glycol ---------- Minor Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Sulfate ---------- **Severe Effect**
Ferric Sulphate 1% to 5% ---------- **Severe Effect**
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate (Copperas) ---------- **Severe Effect**
Fish Liver Oils ---------- **Severe Effect**
Fluoride (Dry) ---------- **Severe Effect**
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- **Severe Effect**
Formaldehyde (Hot) ---------- No Effect
Formic Acid ---------- Moderate Effect
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon 12 ---------- No Effect

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Freon 12,13,22,114,115 ---------- No Effect
Freon 22 ---------- No Effect
Fuel Oil ---------- Minor Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- **Severe Effect**
Gelatin ---------- Moderate Effect
Glucose ---------- No Effect
Glycerine or Glycerol ---------- Minor Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- **Severe Effect**
Hydrocloric Acid 3 Molar ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrofluoric Acid, 50% ---------- **Severe Effect**
Hydrogen Gas (Cold) ---------- Minor Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- **Severe Effect**
Hydrogen Peroxide, 30% ---------- **Severe Effect**
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide (Dry) ---------- Moderate Effect
Hydrogen Sulfide Dry, Cold ---------- **Severe Effect**
Hydrogen Sulfide Dry, Hot ---------- **Severe Effect**
Hydrogen Sulfide Wet, Cold ---------- **Severe Effect**
Hydrogen Sulfide Wet, Hot ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Illuminating Gas ---------- No Effect

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Isooctane ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Ether ---------- No Effect
Kerosene ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquer Thinners ---------- Moderate Effect
Lacquers ---------- Moderate Effect
Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- **Severe Effect**
Light Grease ---------- No Effect
Lime Slurries ---------- No Effect
Lime Sulfur ---------- **Severe Effect**
Linseed Oil ---------- Minor Effect
Magnesium Chloride ---------- Moderate Effect
Magnesium Chloride ---------- Moderate Effect
Magnesium Chloride ---------- **Severe Effect**
Magnesium Hydorxide ---------- Minor Effect
Magnesium Hydroxide ---------- **Severe Effect**
Magnesium Hydroxide (Hot) ---------- **Severe Effect**
Magnesium Sulfate ---------- **Severe Effect**
Malic Acid ---------- Minor Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercury ---------- **Severe Effect**
Mercury Salts ---------- **Severe Effect**
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Amine ---------- **Severe Effect**
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methylene Chloride ---------- Moderate Effect
Milk ---------- **Severe Effect**
Mineral Oils ---------- No Effect

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Molasses ---------- Minor Effect
Monochloracetic Acid ---------- Minor Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Natural Gas ---------- **Severe Effect**
Nickel Chloride ---------- **Severe Effect**
Nickel Sulfate ---------- Moderate Effect
Nicotinic Acid ---------- No Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- **Severe Effect**
Nitrous Acid ---------- **Severe Effect**
Nitrous Gases ---------- **Severe Effect**
Oils (Animal) ---------- No Effect
Oleic Acid ---------- **Severe Effect**
Oleum ---------- Moderate Effect
Oleum Spirits ---------- **Severe Effect**
Oxalic Acid ---------- Moderate Effect
Oxalic Acid, 10% Solution ---------- **Severe Effect**
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- **Severe Effect**
Oxygen, Cold ---------- No Effect
Paint Thinner, DUCO ---------- **Severe Effect**
Palmitic Acid ---------- **Severe Effect**
Paraffins (Paraffin Oil) ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- **Severe Effect**
Phenol ---------- **Severe Effect**

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Phenol (Carbolic Acid) ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid, 1% Solution ---------- **Severe Effect**
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 5% Solution ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphoric Anhydride (Dry or Moist) ---------- **Severe Effect**
Phosphoric Anhydride (Molten) ---------- **Severe Effect**
Picric Acid ---------- **Severe Effect**
Potassium Chloride ---------- Moderate Effect
Potassium Chloride, Boiling ---------- **Severe Effect**
Potassium Cyanide ---------- **Severe Effect**
Potassium Hydroxide ---------- **Severe Effect**
Potassium Hydroxide, 27% Solution (Boiling) -- **Severe Effect**
Potassium Hydroxide, 5% Solution ---------- **Severe Effect**
Potassium Hydroxide, 50% ---------- **Severe Effect**
Potassium Hydroxide, 50% Solution (Boiling) -- **Severe Effect**
Potassium Hydroxide, 70% Solution ---------- **Severe Effect**
Potassium Hydroxide, 70% Solution (Hot) ------ **Severe Effect**
Potassium Nitrate ---------- Minor Effect
Potassium Nitrate 1% to 5% ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- **Severe Effect**
Propane (Liquefied) ---------- No Effect
Propyl Alcohol ---------- No Effect
Resins and Rosins ---------- Minor Effect
Rosin ---------- Moderate Effect
Sea Water ---------- **Severe Effect**
Sewage ---------- **Severe Effect**
Shellac (Bleached) ---------- Minor Effect
Shellac (Orange) ---------- Moderate Effect
Silicon Tetrachloride Wet ---------- Minor Effect

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Soap Solutions ---------- Minor Effect
Sodium Acetate ---------- No Effect
Sodium Bicarbonate ---------- **Severe Effect**
Sodium Bisulfate ---------- **Severe Effect**
Sodium Carbonate ---------- Minor Effect
Sodium Chloride ---------- **Severe Effect**
Sodium Chloride, 2% Solution ---------- **Severe Effect**
Sodium Chloride, 5% @ 150 F ---------- **Severe Effect**
Sodium Chloride, 5% Solution ---------- **Severe Effect**
Sodium Cyanide ---------- **Severe Effect**
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- **Severe Effect**
Sodium Hydroxide, 20% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 20% Solution (Hot) ---------- **Severe Effect**
Sodium Hydroxide, 3 Molar ---------- **Severe Effect**
Sodium Hydroxide, 50% ---------- **Severe Effect**
Sodium Hydroxide, 50% Solution (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 70% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 80% ---------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) ---------- **Severe Effect**
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Metaphosphate ---------- **Severe Effect**
Sodium Nitrate ---------- Moderate Effect
Sodium Nitrate - Fused ---------- **Severe Effect**
Sodium Orthosilicate ---------- **Severe Effect**
Sodium Perborate ---------- Moderate Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Polyphosphate ---------- **Severe Effect**
Sodium Silicate ---------- Moderate Effect
Sodium Silicate (Hot) ---------- **Severe Effect**
Sodium Silicate (Water Glass) ---------- **Severe Effect**
Sodium Sulfate ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect

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Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- **Severe Effect**
Sodium Sulfite ---------- **Severe Effect**
Sodium Thiosulfate ---------- **Severe Effect**
SP-90X ---------- **Severe Effect**
Stearic Acid ---------- **Severe Effect**
Styrene ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- Moderate Effect
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfur Trioxide ---------- **Severe Effect**
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Sulphuric Acid, 5% ---------- **Severe Effect**
Sulphuric Acid, 5% Solution (Boiling) ---------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Sulphuric Acid, Concentrated Solution ---------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---------- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphurous Acid - Saturated ---------- **Severe Effect**
Tannic Acid ---------- Minor Effect
Tar and Tar Oil ---------- Minor Effect
Tartaric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Toluene ---------- No Effect
Toluol ---------- No Effect
Trichloroethylene ---------- No Effect
Turpentine ---------- Moderate Effect
Varnish ---------- Minor Effect
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- Minor Effect
Vinegar ---------- **Severe Effect**

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Water Acid, Mine ---------- **Severe Effect**
Water, Acid Mine ---------- **Severe Effect**
Water, Distilled ---------- No Effect
Water, Fresh ---------- **Severe Effect**
Water, Salt ---------- **Severe Effect**
Whiskey ---------- Minor Effect
Xylene ---------- No Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Chloride, 5% Solution ---------- **Severe Effect**
Zinc Sulfate ---------- Moderate Effect
Zinc Sulfate, 25% Solution (Boiling) --------- **Severe Effect**
Zinc Sulfate, 5% Solution ---------- Minor Effect
Zinc Sulfate, Saturated Solution ---------- **Severe Effect**

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Brass Plating, HiSpeed Brass Bath 110 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	**Severe Effect**
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Brass Plating, Reg Brass Bath 100 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	Moderate Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Bray GG - 130

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Brayco 719-R (VV-H-910)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Brayco 885 (Mil-L-6085A)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Brayco 910

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Bret 710

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Brewery Shop

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CAST IRON	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Brewery Slop

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	No Effect

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Brine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Brom-113

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**

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Brom-114

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
VITON	Minor Effect

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Bromic Acid

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	No Effect

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Bromine (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Bromine (Wet)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Bromine Pentafluoride

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	**Severe Effect**
VITON	**Severe Effect**

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Bromine Trifluoride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Bromine Water

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Minor Effect
NORPRENE	No Effect
POLYPROPYLENE	Moderate Effect
PVC	Moderate Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	**Severe Effect**
SILICONE	Moderate Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	Moderate Effect

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Bromine, Anhydrous

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	Moderate Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Bromine, Liquid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect

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VINYL ---------- Moderate Effect
VITON ---------- No Effect

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Bromobenzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Bromochloro Trifluoroethane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Bromochloromethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Bromotoluene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Bronze Plating, Copper-Cadmium Bronze Bath R.T.

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	Moderate Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Bronze Plating, Copper-Tin Bronze Bath 160 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	**Severe Effect**
EPOXY	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Bronze Plating, Copper-Zinc Bronze Bath 100 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	Moderate Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Bronzing Liquid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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BUNA (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
1-Chlorol 1 Nitro Ethane	**Severe Effect**
1-Chloronaphthalene	**Severe Effect**
1-Nitropropane	**Severe Effect**
Acetal	No Effect
Acetaldehyde	**Severe Effect**
Acetamide	Minor Effect
Acetate Solvents	**Severe Effect**
Acetic Acid	Moderate Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	Minor Effect
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 20%	Moderate Effect
Acetic Acid, 30%	Moderate Effect
Acetic Acid, 5%	Moderate Effect
Acetic Acid, 50%	Moderate Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	**Severe Effect**
Acetone Cyanohydrin	**Severe Effect**
Acetonitrile (Methyl Cyanide)	Moderate Effect
Acetophenone	**Severe Effect**
Acetyl Acetone	**Severe Effect**
Acetyl Chloride	**Severe Effect**
Acetylene (Ethyne)	No Effect
Acetylene Tetrabromide	**Severe Effect**
Acid (Mild)	No Effect

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Acrolein (Acrylaldehyde) ---------- Minor Effect
Acrylonitrile ---------- **Severe Effect**
Adipic Acid ---------- Minor Effect
Aero Lubriplate ---------- No Effect
Aerosafe 2300 ---------- **Severe Effect**
Aerosafe 2300W ---------- **Severe Effect**
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- Minor Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- Minor Effect
Alcohol, Amyl ---------- No Effect
Alcohol, Benzyl ---------- **Severe Effect**
Alcohol, Butyl ---------- No Effect
Alcohol, Diacetone ---------- **Severe Effect**
Alcohol, Ethyl ---------- No Effect
Alcohol, Hexyl ---------- No Effect
Alcohol, Isobutyl ---------- Moderate Effect
Alcohol, Isopropyl ---------- Moderate Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- Minor Effect
Alcohol, Propyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Alkazene ---------- **Severe Effect**
Allyl Alcohol ---------- No Effect
Allyl Bromide ---------- **Severe Effect**
Allyl Chloride ---------- **Severe Effect**
Almond Oil ---------- **Severe Effect**
Alum ---------- Moderate Effect
Aluminum Acetate ---------- Moderate Effect
Aluminum Ammonium Sulfate ---------- Minor Effect
Aluminum Bromide ---------- No Effect
Aluminum Chloride ---------- **Severe Effect**
Aluminum Chloride, 20% ---------- No Effect
Aluminum Fluoride ---------- No Effect

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Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitrate ---------- No Effect
Aluminum Nitride ---------- No Effect
Aluminum Palmitate ---------- No Effect
Aluminum Phosphate ---------- No Effect
Aluminum Potassium Sulfate ---------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ No Effect
Aluminum Salts ---------- No Effect
Aluminum Sodium Sulfate ---------- No Effect
Aluminum Sulfate ---------- No Effect
Alums ---------- No Effect
AMERSEP MP-7 ---------- No Effect
Amines ---------- **Severe Effect**
Ammonia ---------- **Severe Effect**
Ammonia Gas, Cold ---------- No Effect
Ammonia Gas, Hot ---------- **Severe Effect**
Ammonia, 10% ---------- **Severe Effect**
Ammonia, Anhydrous, Liquid ---------- Moderate Effect
Ammonia, Aqueous 30% ---------- **Severe Effect**
Ammonia, Liquids ---------- Minor Effect
Ammonia, Nitrate ---------- **Severe Effect**
Ammonium Bicarbonate ---------- No Effect
Ammonium Bifluoride, 10% ---------- Minor Effect
Ammonium Carbonate ---------- **Severe Effect**
Ammonium Chloride ---------- **Severe Effect**
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Cupric Sulfate ---------- No Effect
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- No Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**

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Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Metaphosphate ---------- No Effect
Ammonium Monophosphate ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Salts ---------- No Effect
Ammonium Sulfamate ---------- No Effect
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Thiocyanate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Ammonium Triphosphate ---------- Minor Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- Minor Effect
Amyl Borate ---------- No Effect
Amyl Chloride ---------- **Severe Effect**
Amyl Chloronaphthalene ---------- **Severe Effect**
Amyl Naphthalene ---------- **Severe Effect**
Amyl Phenol ---------- **Severe Effect**
AN-O-3 Grade M ---------- No Effect
AN-O-366 ---------- No Effect
AN-O-6 ---------- No Effect
Anderol, L-774 (Di-Ester) ---------- Minor Effect
Anderol, L-826 (Di-Ester) ---------- Minor Effect
Anderol, L-829 (Di-Ester) ---------- Minor Effect
ANG-25 (Di-Ester Base) (TG749) ---------- Minor Effect

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ANG-25 (Glyceral Ester) ---------- Minor Effect
Anhydrous Ammonia ---------- Minor Effect
Anhydrous Hydrazine ---------- **Severe Effect**
Anhydrous Hydrogen Fluoride ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- **Severe Effect**
Aniline Hydrochloride ---------- Moderate Effect
Aniline Oil ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Animal Gelatin ---------- No Effect
Ansul Ether ---------- **Severe Effect**
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Chloride ---------- No Effect
Antimony Pentachloride ---------- **Severe Effect**
Antimony Trichloride ---------- **Severe Effect**
Aqua Ammonia ---------- **Severe Effect**
Aqua Regia ---------- **Severe Effect**
Argon ---------- **Severe Effect**
Aristo Wax ---------- No Effect
Arochlor 1248 ---------- **Severe Effect**
Arochlor 1254 ---------- **Severe Effect**
Arochlor 1260 ---------- No Effect
Aroclor ---------- Moderate Effect
Aromatic Fuel 50% ---------- Minor Effect
Aromatic Hydrocarbons ---------- **Severe Effect**
Aromatic Solvents ---------- Moderate Effect
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- Moderate Effect
Arsenious Acid ---------- Minor Effect
Askarel ---------- Minor Effect
Asphalt ---------- Minor Effect
Asphalt Topping ---------- Moderate Effect
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- No Effect
ASTM, Red Motor Fuel C ---------- Minor Effect

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ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- Minor Effect
ATL-857 ---------- Minor Effect
Atlantic Dominion F ---------- No Effect
Aurex 903R (Mobil) ---------- No Effect
Automatic Brake Fluid ---------- **Severe Effect**
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Barbeque Sauce ---------- No Effect
Bardol B ---------- **Severe Effect**
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- No Effect
Barium Chloride Dihydrate ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- Moderate Effect
Barium Fluoride ---------- **Severe Effect**
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- Minor Effect
Barium Salts ---------- No Effect
Barium Sulfate ---------- **Severe Effect**
Barium Sulfide ---------- No Effect
Bayol 35 ---------- No Effect
Bayol D ---------- No Effect
Beef Extract ---------- No Effect
Beer ---------- **Severe Effect**
Beer (Alcohol Ind.) ---------- Minor Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- **Severe Effect**

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Benzene Sulfonic Acid ---------- Moderate Effect
Benzine (Gasoline) ---------- No Effect
Benzochloride ---------- **Severe Effect**
Benzoic Acid ---------- **Severe Effect**
Benzol ---------- **Severe Effect**
Benzophenone ---------- No Effect
Benzoyl Chloride ---------- **Severe Effect**
Benzyl Acetate ---------- **Severe Effect**
Benzyl Alcohol ---------- **Severe Effect**
Benzyl Benzoate ---------- **Severe Effect**
Benzyl Chloride ---------- **Severe Effect**
Benzyl Dichloride ---------- **Severe Effect**
Bichloride of Mercury ---------- No Effect
Biphenyl ---------- **Severe Effect**
Bismuth Subcarbonate ---------- No Effect
Black Liquor ---------- Minor Effect
Black Point 77 ---------- No Effect
Black Sulfate Liquor ---------- Minor Effect
Blast Furnace Gas ---------- **Severe Effect**
Bleach Liquor ---------- **Severe Effect**
Bleach Solutions ---------- Minor Effect
Bleach, 12.5% Active Chlorine ---------- **Severe Effect**
Bleaching Powder (Wet) ---------- No Effect
Blood (Meat Juices-Cold) ---------- Minor Effect
Bone Oil ---------- No Effect
Borax ---------- **Severe Effect**
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- **Severe Effect**
Boron Fuels (HEF) ---------- **Severe Effect**
Brake Fluid ---------- **Severe Effect**
Brake Fluid (Non-Petroleum) ---------- **Severe Effect**
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Bray GG - 130 ---------- Minor Effect
Brayco 719-R (VV-H-910) ---------- **Severe Effect**
Brayco 885 (Mil-L-6085A) ---------- Minor Effect

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Brayco 910 ---------- Minor Effect
Bret 710 ---------- Minor Effect
Brewery Shop ---------- No Effect
Brewery Slop ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- No Effect
Brom-113 ---------- Minor Effect
Brom-114 ---------- Minor Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Pentafluoride ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bromochloro Trifluoroethane ---------- **Severe Effect**
Bromochloromethane ---------- **Severe Effect**
Bromotoluene ---------- **Severe Effect**
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Bronzing Liquid ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- **Severe Effect**
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acetyl Ricinoleate ---------- Moderate Effect
Butyl Acrylate ---------- **Severe Effect**

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Butyl Alcohol ---------- **Severe Effect**
Butyl Amine ---------- **Severe Effect**
Butyl Bromide ---------- **Severe Effect**
Butyl Butyrate ---------- **Severe Effect**
Butyl Carbitol ---------- **Severe Effect**
Butyl Cellosolve ---------- **Severe Effect**
Butyl Cellosolve Adipate ---------- **Severe Effect**
Butyl Chloride ---------- **Severe Effect**
Butyl Ether ---------- No Effect
Butyl Oleate ---------- **Severe Effect**
Butyl Stearate ---------- No Effect
Butylamine FC75 (Fluorocarbon) ---------- No Effect
Butylene ---------- Moderate Effect
Butyraldehyde ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Butyric Anhydride ---------- Moderate Effect
Butyronitrile ---------- **Severe Effect**
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- Minor Effect
Calcine Liquirs ---------- No Effect
Calcium Acetate ---------- Minor Effect
Calcium Acetate Hydrate ---------- Minor Effect
Calcium Acid Sulphate ---------- No Effect
Calcium Bisulfate ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- Minor Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- Minor Effect
Calcium Cyanide ---------- No Effect
Calcium Hydrosulfide ---------- No Effect
Calcium Hydroxide ---------- Minor Effect
Calcium Hydroxide, 10% (Boiling) ---------- Minor Effect
Calcium Hypochloride ---------- **Severe Effect**
Calcium Hypochlorite ---------- Moderate Effect
Calcium Nitrate ---------- No Effect

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Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- No Effect
Calcium Salts ---------- No Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfate - Saturated ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Calcium Thiosulfate ---------- Minor Effect
Calgon ---------- No Effect
Caliche Liquors ---------- No Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Capryl Alcohol ---------- No Effect
Caprylic Acid ---------- Moderate Effect
Caprylic Acid (Caprillic Acid) ---------- **Severe Effect**
Carbamate ---------- Moderate Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- **Severe Effect**
Carbon Bisulfide ---------- **Severe Effect**
Carbon Dioxide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Dioxide, Wet ---------- No Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- Moderate Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonate of Soda ---------- Minor Effect
Carbonated Beverages ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- **Severe Effect**
Casein ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Caustic ---------- **Severe Effect**
Caustic Liquid ---------- Minor Effect

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Caustic Soda ---------- Moderate Effect
Cellosolve ---------- **Severe Effect**
Cellosolve Acetate ---------- **Severe Effect**
Cellosolve Butyl ---------- **Severe Effect**
Celluguard ---------- No Effect
Cellulose Acetate ---------- Minor Effect
Cellulube Hydraulic Fluids ---------- **Severe Effect**
Cellulube Hydraulic Fluids (Phosphate Esters) **Severe Effect**
Cellutherm 2505A ---------- Minor Effect
Cetane (Hexadecane) ---------- No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorextol ---------- Minor Effect
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- Moderate Effect
Chlorinated Lime ---------- Moderate Effect
Chlorinated Lime, 35% (Bleach) ---------- **Severe Effect**
Chlorinated Salt Brine ---------- **Severe Effect**
Chlorinated Solvents ---------- **Severe Effect**
Chlorinated Solvents, Dry ---------- **Severe Effect**
Chlorinated Solvents, Wet ---------- **Severe Effect**
Chlorinated Water, Saturate ---------- Moderate Effect
Chlorine ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - 100 Degrees C ---------- **Severe Effect**
Chlorine Gas - Dry ---------- Minor Effect
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine Water ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- Moderate Effect
Chlorine, Liquid, Anhydrous ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**

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Chlorobromomethane ---------- **Severe Effect**
Chlorobutadiene ---------- **Severe Effect**
Chlorodane ---------- Minor Effect
Chlorododecane ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorothene ---------- **Severe Effect**
Chlorotoluene ---------- **Severe Effect**
Chlorotrifluoroethylene ---------- **Severe Effect**
Chlorox ---------- Moderate Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chrome Plating Solutions ---------- **Severe Effect**
Chromic Acid ---------- **Severe Effect**
Chromic Acid, 10% ---------- **Severe Effect**
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromic Oxide .88 Wt. % ---------- **Severe Effect**
Chromium Plating, Barrel Chrome Bath 95 F ---- **Severe Effect**
Chromium Plating, Black Chrome Bath 115 F ---- **Severe Effect**
Chromium Plating, Chromic-Sulfuric Bath 130 F **Severe Effect**
Chromium Plating, Fluoride Bath 130 F -------- **Severe Effect**
Chromium Plating, Fluosilicate Bath 95 F ----- **Severe Effect**
Cider (Apple Juice) ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- **Severe Effect**
Citric Acid, 15% Solution ---------- Minor Effect
Citric Acid, 15% Solution (Boiling) ---------- Minor Effect
Citric Acid, 5% Solution ---------- Minor Effect
Citric Acid, 5% Solution (@ 150 F) ---------- Minor Effect
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- **Severe Effect**

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Citrus Pectin Liquor ---------- No Effect
Clove Oil ---------- No Effect
Coal Gas ---------- **Severe Effect**
Coal Tars ---------- Minor Effect
Cobalt Chloride ---------- No Effect
Coconut Oil ---------- Minor Effect
Cod Liver Oil ---------- Minor Effect
Coffee ---------- No Effect
Coke Oven Gas ---------- Moderate Effect
Coliche Liquors ---------- No Effect
Convelex 10 ---------- **Severe Effect**
Coolanol (Monsanto) ---------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- **Severe Effect**
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Acetate ---------- Minor Effect
Copper Acetate, Saturated Solution ---------- Minor Effect
Copper Chloride ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- Minor Effect
Copper Fluoride ---------- No Effect
Copper Fluoborate ---------- Minor Effect
Copper Nitrate ---------- No Effect
Copper Nitrate Hexahydrate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- Minor Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Salts ---------- No Effect
Copper Sulfate ---------- **Severe Effect**
Copper Sulfate, 10% ---------- No Effect

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Copper Sulfate, 5% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Copper Sulfide ---------- No Effect
Copper Sulphate, Saturated Solution (Boiling) No Effect
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Creosols ---------- **Severe Effect**
Creosote, Coal-Tar ---------- No Effect
Creosote, Wood-Tar ---------- Minor Effect
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Crotonaldehyde ---------- **Severe Effect**
Crude Oil ---------- **Severe Effect**
Cumeme ---------- **Severe Effect**
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- Moderate Effect
Cyanic Acid ---------- Moderate Effect
Cyclohexane ---------- Moderate Effect
Cyclohexanol ---------- Moderate Effect
Cyclohexanone ---------- **Severe Effect**
Cyclopentane ---------- Minor Effect
Cycolic Acid ---------- No Effect
Cymene ---------- Moderate Effect
D.D.T. ---------- No Effect
De-Ionized Water ---------- No Effect
Decahydronaphthalene ---------- **Severe Effect**
Decalin ---------- **Severe Effect**
Decanal ---------- **Severe Effect**
Decane ---------- Minor Effect
Decyl Alcohol ---------- No Effect
Denatured Alcohol ---------- No Effect
Detergent Solutions ---------- Moderate Effect
Developing Fluids & Solutions ---------- No Effect
Dextron ---------- No Effect

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Dextrose ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- Minor Effect
Di-Ester Synthetic Lubricants ---------- Minor Effect
Diacetone ---------- **Severe Effect**
Diacetone Alcohol ---------- **Severe Effect**
Diamylamine ---------- No Effect
Diazinon ---------- **Severe Effect**
Dibenzyl Ether ---------- **Severe Effect**
Dibenzyl Sebecate ---------- **Severe Effect**
Dibromoethyl Benzene ---------- **Severe Effect**
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Ether ---------- **Severe Effect**
Dibutyl Mercaptan ---------- **Severe Effect**
Dibutyl Phthalate ---------- **Severe Effect**
Dibutyl Sebecate ---------- **Severe Effect**
Dichloro Isopropyl Ether ---------- **Severe Effect**
Dichloro-Butane ---------- Minor Effect
Dichloroacetic Acid ---------- **Severe Effect**
Dichlorobutane ---------- **Severe Effect**
Dichloroethane ---------- **Severe Effect**
Dichloroethyl Ether ---------- **Severe Effect**
Dichloropenthane ---------- **Severe Effect**
Dicyclohexylamine ---------- **Severe Effect**
Diemethyl Formamide ---------- Minor Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diester Synthetic Oils ---------- Minor Effect
Diethanol Amine ---------- **Severe Effect**
Diethyl Amine ---------- Moderate Effect
Diethyl Benzene ---------- **Severe Effect**
Diethyl Carbonate ---------- **Severe Effect**
Diethyl Ether ---------- **Severe Effect**
Diethyl Phthalate ---------- **Severe Effect**
Diethyl Sebacate ---------- **Severe Effect**
Diethyl Sebacate ---------- **Severe Effect**

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Diethyl Sulfate ---------- **Severe Effect**
Diethylamine ---------- Moderate Effect
Diethylene Ether (Dioxane) ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- Minor Effect
Difluorodibromomethane ---------- **Severe Effect**
Diisobutyl Ketone ---------- **Severe Effect**
Diisobutylene ---------- Minor Effect
Diisodecyl Adipate ---------- **Severe Effect**
Diisodecyl Phthalate ---------- **Severe Effect**
Diisooctyl Adipate ---------- **Severe Effect**
Diisooctyl Phthalate ---------- **Severe Effect**
Diisooctyl Sebecate ---------- **Severe Effect**
Diisopropyl Amine ---------- Minor Effect
Diisopropyl Benzene ---------- **Severe Effect**
Diisopropyl Ketone ---------- **Severe Effect**
Dimethyl Aniline ---------- **Severe Effect**
Dimethyl Ether ---------- No Effect
Dimethyl Phthalate ---------- **Severe Effect**
Dimethyl Sulfate ---------- **Severe Effect**
Dimethyl Sulfide ---------- **Severe Effect**
Dinitrotoluene ---------- **Severe Effect**
Dioctyl Phthalate ---------- **Severe Effect**
Dioctyl Sebecate ---------- **Severe Effect**
Dioctylphthalate ---------- **Severe Effect**
Dioxalanes ---------- **Severe Effect**
Dioxane ---------- **Severe Effect**
Dioxolane (Dioxalans) ---------- **Severe Effect**
Dipentene ---------- Moderate Effect
Diphenyl ---------- **Severe Effect**
Diphenyl Oxide ---------- **Severe Effect**
Dipropyl Ketone ---------- **Severe Effect**
Dipropylamine ---------- Minor Effect
Dipropylene Glycol ---------- No Effect
Dipsersing Oil #10 ---------- **Severe Effect**
Divinyl Benzene ---------- **Severe Effect**

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Dodecyl Benzene ---------- **Severe Effect**
Dow Corning (Silicones) ---------- No Effect
Dowtherm (Biphenyl & Phenyl Ether) ---------- **Severe Effect**
Dowtherm A ---------- **Severe Effect**
Dowtherm E ---------- **Severe Effect**
Drilling Mud (Oil Base) ---------- No Effect
Drilling Mud (Water Base) ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- **Severe Effect**
DTE Light Oil ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- **Severe Effect**
Epsom Salts ---------- No Effect
Esstic 42, 43 ---------- No Effect
Ethane ---------- No Effect
Ethanol ---------- No Effect
Ethanolamine ---------- Minor Effect
Ether (Ethyl, Methyl, Isor) ---------- Minor Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acetoacetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Alcohol ---------- No Effect
Ethyl Aluminum Dichloride ---------- **Severe Effect**
Ethyl Amine ---------- **Severe Effect**
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzoate ---------- **Severe Effect**
Ethyl Bromide ---------- **Severe Effect**
Ethyl Butyl Acetate ---------- **Severe Effect**
Ethyl Butyl Alcohol ---------- No Effect
Ethyl Butyl Ketone ---------- **Severe Effect**
Ethyl Butyraldehyde ---------- **Severe Effect**
Ethyl Butyrate ---------- **Severe Effect**
Ethyl Caprylate ---------- **Severe Effect**
Ethyl Cellose ---------- Minor Effect
Ethyl Cellosolve ---------- **Severe Effect**

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Ethyl Cellulose ---------- Minor Effect
Ethyl Chloride ---------- **Severe Effect**
Ethyl Chloride (Dry) ---------- **Severe Effect**
Ethyl Chloride (Wet) ---------- **Severe Effect**
Ethyl Chlorocarbonate ---------- **Severe Effect**
Ethyl Chloroformate ---------- **Severe Effect**
Ethyl Cyanide ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethyl Formate ---------- **Severe Effect**
Ethyl Iodide ---------- **Severe Effect**
Ethyl Isobutyrate ---------- **Severe Effect**
Ethyl Mercaptan ---------- **Severe Effect**
Ethyl Oxalate ---------- **Severe Effect**
Ethyl Pentachlorobenzene ---------- **Severe Effect**
Ethyl Propionate ---------- **Severe Effect**
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- No Effect
Ethylacrylic Acid ---------- **Severe Effect**
Ethylcyclopentane ---------- No Effect
Ethylene ---------- Minor Effect
Ethylene Bromide ---------- **Severe Effect**
Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Diamine ---------- Minor Effect
Ethylene Dibromide ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- **Severe Effect**
Ethylene Glycol Monobutyl ---------- Minor Effect
Ethylene Glycol Monoethyl ---------- Moderate Effect
Ethylene Glycol Monomethyl ---------- Moderate Effect
Ethylene Glycol Monomethyl Ether ---------- Minor Effect
Ethylene Oxide ---------- **Severe Effect**
Ethylene Oxide (12%) & Freon 12 (80%) -------- **Severe Effect**
Ethylene Trichloride ---------- **Severe Effect**
Ethylhexyl Acetate ---------- **Severe Effect**

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Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- **Severe Effect**
Ethylmorpholene Stannous Octoate (50/50 Mix) - **Severe Effect**
Fatty Acids ---------- Moderate Effect
FC-43 Heptacosofluorotri-Butylamine FC75 ----- No Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 1% Solution (Boiling) ------- Minor Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Chloride, 5% Agitated or Aerated ------ Minor Effect
Ferric Chloride, 5% Solution (Still) --------- No Effect
Ferric Hydroxide ---------- Minor Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferric Sulphate 1% to 5% ---------- Minor Effect
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- **Severe Effect**
Ferrous Sulfate (Copperas) ---------- No Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fish Liver Oils ---------- No Effect
Fish Oil ---------- No Effect
Fluboric Acid ---------- Minor Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluoride (Dry) ---------- Minor Effect
Fluorine ---------- **Severe Effect**
Fluorine (Anhydrous) ---------- **Severe Effect**
Fluorine (Liquid) ---------- **Severe Effect**
Fluorobenzene ---------- **Severe Effect**
Fluorolube ---------- Moderate Effect
Fluorosulfonic Acid ---------- No Effect
Fluosilicic Acid ---------- Moderate Effect
Formaldehyde ---------- **Severe Effect**
Formaldehyde, 40% ---------- Minor Effect
Formamide ---------- No Effect
Formic Acid ---------- Moderate Effect

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Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon ---------- **Severe Effect**
Freon 11 ---------- Moderate Effect
Freon 112 ---------- Minor Effect
Freon 113 ---------- Minor Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- Minor Effect
Freon 115 ---------- No Effect
Freon 12 ---------- Minor Effect
Freon 12,13,22,114,115 ---------- Moderate Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- **Severe Effect**
Freon 142b ---------- No Effect
Freon 152a ---------- No Effect
Freon 21 ---------- **Severe Effect**
Freon 218 ---------- No Effect
Freon 22 ---------- **Severe Effect**
Freon 31 ---------- **Severe Effect**
Freon 32 ---------- No Effect
Freon 502 ---------- Minor Effect
Freon C316 ---------- No Effect
Freon T-P35 ---------- No Effect
Freon T-WD602 ---------- Minor Effect
Freon T.F. ---------- No Effect
Freon TA ---------- No Effect
Freon TC ---------- No Effect
Freon TMC ---------- Minor Effect
Freon, BF ---------- Minor Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- Minor Effect
Freon, PCA ---------- No Effect
Fruit Juice Pulp ---------- No Effect

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Fruit Juices ---------- **Severe Effect**
Fuel Oil ---------- Moderate Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- Minor Effect
Fumaric Acid ---------- **Severe Effect**
Fuming Sulphuric Acid (20/25% Oleum) --------- **Severe Effect**
Furan ---------- **Severe Effect**
Furan Resin ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Furfuraldehyde ---------- **Severe Effect**
Furfuryl Alcohol ---------- **Severe Effect**
Furyl Carbinol ---------- **Severe Effect**
Fusel Oil ---------- No Effect
Fyrquel 90,100,150m 220, 300,500 ---------- **Severe Effect**
Fyrquel A60 ---------- **Severe Effect**
Gallic Acid ---------- Moderate Effect
Gasoline (Aviation) ---------- Minor Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Petrol) ---------- Moderate Effect
Gasoline (Sour) ---------- **Severe Effect**
Gasoline (Unleaded) ---------- **Severe Effect**
Gasoline, Refined ---------- No Effect
Gelatin ---------- No Effect
Ginger Oil ---------- No Effect
Glacial Acetic Acid ---------- Minor Effect
Glauber's Salt ---------- **Severe Effect**
Gluconic Acid ---------- Moderate Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- **Severe Effect**
Glycolic Acid ---------- No Effect
Glycols ---------- No Effect
Gold Monocyanide ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- Moderate Effect

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Grapefruit Oil ---------- **Severe Effect**
Grease ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Green Sulfate Liquor ---------- Minor Effect
Halothane ---------- **Severe Effect**
Halowax Oil ---------- **Severe Effect**
Hannifin Lube A ---------- No Effect
Heavy Water ---------- No Effect
HEF-2 (High Energy Fuel) ---------- Minor Effect
Helium ---------- No Effect
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexalin ---------- Minor Effect
Hexanal ---------- **Severe Effect**
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
High Viscosity Lubricant, H2 ---------- No Effect
High Viscosity Lubricant, U4 ---------- No Effect
Hilo MS #1 ---------- **Severe Effect**
Honey ---------- No Effect
Houghto-Safe 1010, Phosphate Ester ---------- **Severe Effect**
Houghto-Safe 1055, Phosphate Ester ---------- **Severe Effect**
Houghto-Safe 1120, Phosphate Ester ---------- **Severe Effect**
Houghto-Safe 271 (Water & Glycol Base) ------- No Effect
Houghto-Safe 5040 (Water/Oil Emulsion) ------- No Effect
Houghto-Safe 620Water/Glycol ---------- No Effect
Hydraulic Oil ---------- Moderate Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- **Severe Effect**
Hydrazine ---------- No Effect
Hydrazine (Diamine) ---------- Minor Effect
Hydrobomic Acid, 20% ---------- **Severe Effect**
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**

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Hydrobromic Acid, 20% ---------- **Severe Effect**
Hydrocarbons (Saturated) ---------- No Effect
Hydrochloric Acid ---------- Moderate Effect
Hydrochloric Acid (Conc.) ---------- **Severe Effect**
Hydrochloric Acid (Dilute) ---------- **Severe Effect**
Hydrochloric Acid 20% ---------- Minor Effect
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- Moderate Effect
Hydrochloric Acid, 37% ---------- Moderate Effect
Hydrocloric Acid 3 Molar ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- Moderate Effect
Hydrofluoric Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid Anhydrous ---------- **Severe Effect**
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 50% ---------- **Severe Effect**
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- Minor Effect
Hydrogen ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- **Severe Effect**
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- Moderate Effect
Hydrogen Peroxide, 3% ---------- Minor Effect
Hydrogen Peroxide, 30% ---------- Moderate Effect
Hydrogen Peroxide, 50% ---------- Moderate Effect
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Phosphide ---------- **Severe Effect**
Hydrogen Sulfide ---------- Minor Effect

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Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- **Severe Effect**
Hydrogen Sulfide Wet, Cold ---------- **Severe Effect**
Hydrogen Sulfide Wet, Hot ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hydrolube-Water/Ethylene Glycol ---------- No Effect
Hydroquinone ---------- **Severe Effect**
Hydroxyacetic Acid, 10% ---------- **Severe Effect**
Hydroxyacetic Acid, 70% ---------- No Effect
Hydyne ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Hypoid Grease (Parapoid 10-C) ---------- No Effect
Hyporchlorities, Sodium ---------- No Effect
Illuminating Gas ---------- Minor Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- **Severe Effect**
Iodine Pentafluoride ---------- **Severe Effect**
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- Minor Effect
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- Minor Effect
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- Minor Effect
Iso Butane ---------- No Effect
Iso-Butyl N-Butyrate ---------- **Severe Effect**
Isoamyl Acetate ---------- **Severe Effect**
Isoamyl Alcohol ---------- No Effect
Isoamyl Butyrate ---------- **Severe Effect**
Isoamyl Chloride ---------- **Severe Effect**
Isobutyl Acetate ---------- **Severe Effect**
Isobutyl Alcohol ---------- Minor Effect
Isobutyl Amine ---------- **Severe Effect**
Isobutyl Chloride ---------- **Severe Effect**

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Isobutyric Acid ---------- **Severe Effect**
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isopentane ---------- No Effect
Isophorone ---------- **Severe Effect**
Isopropanol ---------- No Effect
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- **Severe Effect**
Isopropyl Amine ---------- **Severe Effect**
Isopropyl Chloride ---------- **Severe Effect**
Isopropyl Ether ---------- Moderate Effect
Isotane ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Jet Fuels (JP1 to JP6) ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect

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BUNA (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kel F Liquids	No Effect
Kerosene	No Effect
Ketones	**Severe Effect**
Keystone #87HX-Grease	No Effect
Lacquer Solvents	**Severe Effect**
Lacquer Thinners	**Severe Effect**
Lacquers	**Severe Effect**
Lactam-Amino Acids	**Severe Effect**
Lactic Acid	Minor Effect
Lactic Acid 10% Solution (Boiling)	**Severe Effect**
Lactic Acid, 25%	Moderate Effect
Lactic Acid, 5% Solution	No Effect
Lactol	**Severe Effect**
Lard	No Effect
Lard Oil	No Effect
Lard Oil (Cold)	No Effect
Lard Oil (Hot)	No Effect
Latex	No Effect
Lauryl Alcohol	No Effect
Lavender Oil	Minor Effect
Lead Acetate	Moderate Effect
Lead Fluoborate Plating	Minor Effect
Lead Nitrate	Minor Effect
Lead Sulfamate	Minor Effect
Lead Sulphamate	Minor Effect
Lehigh X1169	No Effect
Lehigh X1170	No Effect
Light Grease	No Effect
Lignin Liquor	No Effect
Ligroin	No Effect
Lime	No Effect
Lime Bleach	No Effect

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Lime Slurries ---------- Minor Effect
Lime Sulfur ---------- **Severe Effect**
Lime, Soda ---------- Minor Effect
Limonene ---------- **Severe Effect**
Lindol ---------- **Severe Effect**
Linoleic Acid ---------- Moderate Effect
Linseed Oil ---------- No Effect
Liquid Oxygen ---------- **Severe Effect**
Lithium Bromide ---------- No Effect
Lithium Chloride ---------- **Severe Effect**
Lubricants ---------- No Effect
Lubricating Oil Di-Ester ---------- Minor Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Lubricating Oils ---------- No Effect
Lye ---------- Moderate Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- **Severe Effect**
Magnesium Hydorxide ---------- **Severe Effect**
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- Minor Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Salts ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfide ---------- **Severe Effect**
Magnesium Sulfite ---------- No Effect
Malathion ---------- Minor Effect
Maleic Acid ---------- **Severe Effect**
Maleic Anhydride ---------- **Severe Effect**
Malic Acid ---------- **Severe Effect**
Malt Beverages ---------- No Effect
Manganese Chloride ---------- **Severe Effect**
Manganese Sulfate ---------- **Severe Effect**
Maple Sugar Liquors ---------- No Effect
Mash ---------- No Effect

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Mayonnaise ---------- No Effect
MCS 312 ---------- **Severe Effect**
MCS 352 ---------- **Severe Effect**
MCS 463 ---------- **Severe Effect**
Melamine ---------- Moderate Effect
Melamine Resins ---------- **Severe Effect**
Mercuric Chloride ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- Minor Effect
Mercuric Sulfate ---------- **Severe Effect**
Mercurous Nitrate ---------- Minor Effect
Mercury ---------- No Effect
Mesityl Oxide ---------- **Severe Effect**
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- **Severe Effect**
Methyl Acetoacetate ---------- **Severe Effect**
Methyl Acetone ---------- **Severe Effect**
Methyl Acrylate ---------- **Severe Effect**
Methyl Acrylic Acid ---------- **Severe Effect**
Methyl Alcohol ---------- No Effect
Methyl Alcohol, 10% ---------- Minor Effect
Methyl Amine ---------- Minor Effect
Methyl Amyl Acetate ---------- **Severe Effect**
Methyl Amyl Alcohol ---------- No Effect
Methyl Aniline ---------- No Effect
Methyl Benzoate ---------- **Severe Effect**
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Butyrate ---------- **Severe Effect**
Methyl Carbonate ---------- **Severe Effect**
Methyl Cellosolve ---------- **Severe Effect**
Methyl Cellulose ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Chloroformate ---------- **Severe Effect**
Methyl Cyclopentane ---------- **Severe Effect**

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Methyl D-Bromide ---------- **Severe Effect**
Methyl Dichloride ---------- **Severe Effect**
Methyl Ether ---------- No Effect
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Ethyl Ketone Peroxide ---------- **Severe Effect**
Methyl Formate ---------- **Severe Effect**
Methyl Hexane ---------- No Effect
Methyl Iodide ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methyl Methacrylate ---------- **Severe Effect**
Methyl Oleate ---------- **Severe Effect**
Methyl Propyl Ketone ---------- **Severe Effect**
Methyl Salicylate ---------- **Severe Effect**
Methylamine ---------- **Severe Effect**
Methylene Bromide ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- No Effect
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- Moderate Effect
Mixed Acids ---------- **Severe Effect**
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- **Severe Effect**
MLO-7557 ---------- **Severe Effect**
MLO-8200 Hydr. ---------- Minor Effect
MLO-8515 ---------- Minor Effect
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- **Severe Effect**
Monochloracetic Acid ---------- **Severe Effect**
Monochlorobenzene ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- **Severe Effect**
Monoethanolamine ---------- **Severe Effect**
Monomethyl Hydrazine ---------- Minor Effect
Monomethylaniline ---------- **Severe Effect**
Monomethylether ---------- No Effect

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Mononitrotoluene & Dinitrotoluene (40/60 Mix) **Severe Effect**
Monovinyl Acetylene ---------- No Effect
Mustard ---------- Moderate Effect
N,N-Dimethyl Formamide ---------- Moderate Effect
N,N-Dimethylaniline ---------- **Severe Effect**
n-Amyl Amine ---------- Moderate Effect
n-Butyl Acetate ---------- **Severe Effect**
N-Butyl Benzoate ---------- **Severe Effect**
N-Butyl Ether ---------- **Severe Effect**
N-Hexaldehyde ---------- **Severe Effect**
n-Hexane ---------- No Effect
n-Hexane 1 ---------- No Effect
N-Hexene-1 ---------- Minor Effect
N-Methyl Aniline ---------- **Severe Effect**
n-Octane ---------- No Effect
N-Pentane ---------- No Effect
n-Propyl Acetate ---------- **Severe Effect**
N-Propyl Acetone ---------- **Severe Effect**
n-Propyl Nitrate ---------- No Effect
Napalm ---------- Minor Effect
Naphtha Coal Tar (Benzol) ---------- **Severe Effect**
Naphtha, Petroleum ---------- Moderate Effect
Naphthalene ---------- **Severe Effect**
Naphthoic Acid ---------- Minor Effect
Naptha ---------- **Severe Effect**
Naptha-Coal Tar (Benzol) ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Napthenic Acid ---------- Minor Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neohexane ---------- No Effect
Neon ---------- No Effect
Neosol ---------- No Effect
Neville Acid ---------- **Severe Effect**
Nickel Acetate ---------- Minor Effect
Nickel Chloride ---------- **Severe Effect**

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Nickel Nitrate ---------- No Effect
Nickel Plating, Electroless 200 F ---------- **Severe Effect**
Nickel Plating, Fluoborate 100-170 F --------- Minor Effect
Nickel Plating, High Chloride 130-160 F ------ No Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Salts ---------- No Effect
Nickel Sulfate ---------- **Severe Effect**
Niter Coke ---------- **Severe Effect**
Nitrana ---------- Minor Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 25% ---------- **Severe Effect**
Nitric Acid, 35% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, 70% ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- **Severe Effect**
Nitric Oxide ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitroethane ---------- **Severe Effect**
Nitrogen ---------- No Effect
Nitrogen Tetroxide ---------- **Severe Effect**
Nitromethane ---------- **Severe Effect**
Nitropropane ---------- **Severe Effect**
O-Chloronaphthalene ---------- **Severe Effect**
o-Chlorophenol ---------- **Severe Effect**

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O-Chlorphenol ---------- **Severe Effect**
o-Dichlorobenzene ---------- **Severe Effect**
Octachlorotoluene ---------- **Severe Effect**
Octadecane ---------- No Effect
Octyl Acetate ---------- **Severe Effect**
Octyl Alcohol ---------- Minor Effect
Oil - No. 1 ASTM ---------- Minor Effect
Oil - No. 3 ASTM ---------- Minor Effect
Oils and Fats ---------- Moderate Effect
Oils, Crude ---------- Minor Effect
Oleic Acid ---------- **Severe Effect**
Olein ---------- **Severe Effect**
Oleum ---------- **Severe Effect**
Oleum (Fuming Sulfuric Acid) ---------- **Severe Effect**
Oleum Spirits ---------- **Severe Effect**
Oleum, 25% ---------- **Severe Effect**
Olive Oil ---------- **Severe Effect**
Orange Oil ---------- No Effect
Oronite 8200 ---------- Minor Effect
Oronite 8515 ---------- Minor Effect
Ortho-Dichlorobenzene ---------- **Severe Effect**
Orthochloro Ethyl Benzene ---------- **Severe Effect**
OS 45 Type III (OS45) ---------- Minor Effect
OS 45 Type IV (OS45-1) ---------- Minor Effect
OS 70 ---------- Minor Effect
Oxalic Acid ---------- Moderate Effect
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, 200-400 degrees F ---------- **Severe Effect**
Oxygen, Cold ---------- Minor Effect
Ozone ---------- **Severe Effect**
Ozone (Dry) ---------- **Severe Effect**
Ozone (Wet) ---------- **Severe Effect**
P-Cymene ---------- **Severe Effect**
P-Dichlorobenzene ---------- **Severe Effect**

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P-Tertiary Butyl Catechol ---------- **Severe Effect**
Paint Thinner, DUCO ---------- No Effect
Paints & Solvents ---------- **Severe Effect**
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- **Severe Effect**
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- **Severe Effect**
Paraldehyde ---------- Moderate Effect
Paralketone ---------- **Severe Effect**
Peanut Oil ---------- No Effect
Pentachloroethane ---------- **Severe Effect**
Pentachlorophenol ---------- **Severe Effect**
Pentane, 2 Methyl ---------- No Effect
Pentane, 2-4, Dimethyl ---------- No Effect
Pentane, 3-Methyl ---------- No Effect
Penthane ---------- No Effect
Peppermint Oil ---------- **Severe Effect**
Perchloric Acid ---------- **Severe Effect**
Perchloric Acid, 10% ---------- **Severe Effect**
Perchloric Acid, 70% ---------- **Severe Effect**
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- No Effect
Petroleum Ether ---------- No Effect
Petroleum Oil, Above 250 degrees F ---------- **Severe Effect**
Petroleum Oil, Below 250 degrees F ---------- No Effect
Petroleum Oil, Crude ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- **Severe Effect**
Phenethyl Alcohol ---------- **Severe Effect**
Phenol ---------- **Severe Effect**
Phenol (Carbolic Acid) ---------- **Severe Effect**
Phenol Sulfonic Acid ---------- **Severe Effect**
Phenol, 10% ---------- **Severe Effect**
Phenol, 70%/30% H2O ---------- **Severe Effect**
Phenol, 85%/15% H2O ---------- **Severe Effect**

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Phenyl Acetate ---------- **Severe Effect**
Phenyl Ethyl Ether ---------- **Severe Effect**
Phenyl Hydrazine ---------- **Severe Effect**
Phenylbenzene ---------- **Severe Effect**
Phorone ---------- **Severe Effect**
Phosphoric Acid ---------- **Severe Effect**
Phosphoric Acid (Conc) ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 20% ---------- Moderate Effect
Phosphoric Acid, 25% ---------- **Severe Effect**
Phosphoric Acid, 3 Molar ---------- **Severe Effect**
Phosphoric Acid, 5% Solution ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphoric Anhydride (Dry or Moist) ---------- **Severe Effect**
Phosphoric Anhydride (Molten) ---------- Moderate Effect
Phosphorus Trichloride ---------- **Severe Effect**
Photographic Developers ---------- **Severe Effect**
Photographic Fixer ---------- Moderate Effect
Photographic Solutions ---------- No Effect
Phthalic Anhydride ---------- Moderate Effect
Pickling Solution ---------- **Severe Effect**
Picric Acid ---------- No Effect
Picric Acid, H2O Solution ---------- Minor Effect
Picric Acid, Molten ---------- Minor Effect
Pine Oil ---------- **Severe Effect**
Pinene ---------- Minor Effect
Piperidine ---------- **Severe Effect**
Pitch ---------- No Effect
Plating Solution, Cadmium ---------- Minor Effect
Plating Solution, Chrome ---------- **Severe Effect**
Plating Solution, Lead ---------- Minor Effect

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Plating Solution, Others ---------- No Effect
Plating Solutions ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Pneumatic Service ---------- No Effect
Potash ---------- No Effect
Potassium Acetate ---------- Minor Effect
Potassium Alum ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bisulfate ---------- No Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- Moderate Effect
Potassium Chlorate ---------- **Severe Effect**
Potassium Chloride ---------- **Severe Effect**
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cupro Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Diphosphate ---------- No Effect
Potassium Ferrocyanide ---------- **Severe Effect**
Potassium Hydroxide ---------- Moderate Effect
Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 50% ---------- Minor Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Hypochlorite ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Monophosphates ---------- No Effect
Potassium Nitrate ---------- **Severe Effect**
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- No Effect
Potassium Permanganate ---------- Moderate Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Salts ---------- No Effect

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Potassium Silicate ---------- No Effect
Potassium Sulfate ---------- **Severe Effect**
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- No Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Potassium Triphosphate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propane Propionitrile ---------- No Effect
Propionaldehyde ---------- **Severe Effect**
Propionic Acid ---------- **Severe Effect**
Propyl Acetate ---------- **Severe Effect**
Propyl Alcohol ---------- Minor Effect
Propyl Nitrate ---------- **Severe Effect**
Propylene ---------- **Severe Effect**
Propylene Dichloride ---------- **Severe Effect**
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- **Severe Effect**
Pydraul ---------- **Severe Effect**
Pydraul 10E, 29 ELT ---------- **Severe Effect**
Pydraul 115E ---------- **Severe Effect**
Pydraul 230E, 312C, 540C ---------- **Severe Effect**
Pydraul 30E, 50E, 65E, 90E ---------- **Severe Effect**
Pyranol ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- **Severe Effect**
Pyridine Oil ---------- **Severe Effect**
Pyrogallic Acid ---------- **Severe Effect**
Pyroligneous Acid ---------- **Severe Effect**
Pyrolube ---------- **Severe Effect**
Pyrrole ---------- **Severe Effect**

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Quaternary Ammonium Salts ---------- No Effect
Quench Oil ---------- Minor Effect
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- **Severe Effect**
Rape-Seed Oil ---------- **Severe Effect**
Red Line 100 Oil ---------- No Effect
Red Oil (Mil-H-5606) ---------- No Effect
Resins and Rosins ---------- Minor Effect
Rhodium Plating 120 F ---------- No Effect
RJ-1 (Mil-F-25558) ---------- No Effect
Rosin ---------- No Effect
Rosin Oil ---------- No Effect
Rotenone ---------- No Effect
RP-1 (Mil-R-25576) ---------- No Effect
Rubber Solvents ---------- **Severe Effect**
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Sal Ammoniac ---------- **Severe Effect**
Sal Soda ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- Minor Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- **Severe Effect**
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- Minor Effect
Silicone ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- **Severe Effect**
Silver Nitrate ---------- Moderate Effect
Silver Plating 80-120 F ---------- No Effect

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Skelly, Solvent B,C,E ---------- No Effect
Skydrol 500 ---------- **Severe Effect**
Skydrol 7000 ---------- **Severe Effect**
Skydrol Hydraulic Fluid ---------- **Severe Effect**
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- **Severe Effect**
Sodium Acid Sulfate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- **Severe Effect**
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- **Severe Effect**
Sodium Chlorate ---------- **Severe Effect**
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- **Severe Effect**
Sodium Dichromate ---------- No Effect
Sodium Fluoride ---------- **Severe Effect**
Sodium Fluoride, 5% ---------- No Effect
Sodium Hexametaphosphate ---------- Minor Effect
Sodium Hydrosulfide ---------- **Severe Effect**
Sodium Hydrosulfite ---------- **Severe Effect**
Sodium Hydroxide ---------- Moderate Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- Minor Effect
Sodium Hydroxide, 20% Solution (Hot) --------- **Severe Effect**
Sodium Hydroxide, 3 Molar ---------- Minor Effect
Sodium Hydroxide, 50% ---------- **Severe Effect**

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Sodium Hydroxide, 50% Solution (Cold) -------- Minor Effect
Sodium Hydroxide, 70% (Cold) ---------- Minor Effect
Sodium Hydroxide, 80% ---------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- Moderate Effect
Sodium Hypochlorite, 20% ---------- Minor Effect
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Iodide ---------- Moderate Effect
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate ---------- No Effect
Sodium Nitrate ---------- **Severe Effect**
Sodium Nitrate - Fused ---------- **Severe Effect**
Sodium Nitrite ---------- No Effect
Sodium Orthosilicate ---------- No Effect
Sodium Perborate ---------- Moderate Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- **Severe Effect**
Sodium Phosphate (Dibasic) ---------- No Effect
Sodium Phosphate (Mono) ---------- No Effect
Sodium Phosphate (Tribasic) ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Pyrophosphate ---------- No Effect
Sodium Resinate ---------- No Effect
Sodium Salts ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- **Severe Effect**
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- **Severe Effect**
Sodium Sulfite, 10% Solution @ 150 F --------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect

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Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Tetraphosphate ---------- No Effect
Sodium Thiosulfate ---------- **Severe Effect**
Sodium Triphosphate ---------- No Effect
Sorghum ---------- No Effect
Sorgum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Spry ---------- No Effect
SR-10 Fuel ---------- Minor Effect
SR-6 Fuel ---------- No Effect
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- No Effect
Stannic Fluoborate ---------- No Effect
Stannous Chloride ---------- **Severe Effect**
Stanous Chloride, 15% ---------- No Effect
Starch ---------- No Effect
Steam, Above 350 F ---------- **Severe Effect**
Steam, Below 350 F ---------- **Severe Effect**
Stearic Acid ---------- Minor Effect
Steric Acid ---------- Moderate Effect
Stoddard Solvent ---------- Minor Effect
Styrene ---------- **Severe Effect**
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfamic Acid ---------- Minor Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfite Liquors ---------- No Effect
Sulfur ---------- **Severe Effect**
Sulfur (Molten) ---------- **Severe Effect**
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- **Severe Effect**

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Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Dioxide, Liquefied Under Pressure ----- **Severe Effect**
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfur Hexafluoride ---------- Minor Effect
Sulfur Trioxide ---------- **Severe Effect**
Sulfuric Acid ---------- **Severe Effect**
Sulfuric Acid (Conc) ---------- **Severe Effect**
Sulfuric Acid (Fuming) ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfuric Acid, 25% ---------- Moderate Effect
Sulfuric Acid, 3 Molar ---------- **Severe Effect**
Sulfuric Acid, 50% ---------- Moderate Effect
Sulfuric Acid, 60% ---------- **Severe Effect**
Sulfuric Acid, 75% ---------- **Severe Effect**
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfuric Acid, 95% ---------- **Severe Effect**
Sulfuric Acid, 98.5% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- Minor Effect
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- No Effect
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphurous Acid - Saturated ---------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Talc Slurry ---------- No Effect
Tall Oil (Liquid Rosin) ---------- No Effect
Tallow ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- **Severe Effect**
Tannin ---------- No Effect
Tanning Liquors ---------- Moderate Effect

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Tanning Oil ---------- No Effect
Tar, Bituminous ---------- Minor Effect
Tarpenes ---------- Moderate Effect
Tartaric Acid ---------- **Severe Effect**
Terpineol ---------- Moderate Effect
Tertiary Butyl Alcohol ---------- **Severe Effect**
Tertiary Butyl Catechol ---------- **Severe Effect**
Tertiary Butyl Mercaptan ---------- **Severe Effect**
Tetra Bromomethane ---------- **Severe Effect**
Tetrabutyl Titanate ---------- Minor Effect
Tetrachlorodifluoroethane ---------- **Severe Effect**
Tetrachloroethane ---------- **Severe Effect**
Tetrachloroethylene ---------- **Severe Effect**
Tetraethyl Lead ---------- Moderate Effect
Tetraethyl Lead "Blend" ---------- Minor Effect
Tetraethylene Glycol ---------- No Effect
Tetrahydrofuran ---------- **Severe Effect**
Tetrahydronaphthalene ---------- **Severe Effect**
Tetralin ---------- **Severe Effect**
Tetraphosphoglucosate ---------- No Effect
THIO-RED ---------- No Effect
Thiokol TP-90B ---------- **Severe Effect**
Thiokol TP-95 ---------- **Severe Effect**
Thionyl Chloride ---------- **Severe Effect**
Thiophene ---------- **Severe Effect**
Tin-Fluoborate Plating 100 F ---------- Minor Effect
Tin-Lead Plating 100 F ---------- Minor Effect
Titanium Tetrachloride ---------- Moderate Effect
Toluene ---------- **Severe Effect**
Toluene Diisocyanide ---------- **Severe Effect**
Toluidine ---------- **Severe Effect**
Toluol ---------- **Severe Effect**
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- No Effect
Transformer Oil ---------- Minor Effect
Transmission Fluid ---------- No Effect

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Transmission Fluid, Type A ---------- No Effect
Triacetin ---------- No Effect
Triallyl Phosphate ---------- **Severe Effect**
Triaryl Phosphate ---------- **Severe Effect**
Tributoxyl Ethyl Phosphate ---------- **Severe Effect**
Tributyl Mercaptan ---------- **Severe Effect**
Tributyl Phosphate ---------- **Severe Effect**
Trichloroacetic Acid ---------- Moderate Effect
Trichlorobenzenes ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresyl Phosphate ---------- **Severe Effect**
Tridecyl Alcohol ---------- No Effect
Triethanolamine ---------- **Severe Effect**
Triethyl Aluminum ---------- **Severe Effect**
Triethyl Amine ---------- No Effect
Triethyl Borane ---------- **Severe Effect**
Triethylene Glycol ---------- No Effect
Trifluoroethane ---------- **Severe Effect**
Trimethylene Glycol ---------- No Effect
Trinitrotoluene ---------- **Severe Effect**
Trioctyl Phosphate ---------- **Severe Effect**
Tripoly Phosphate ---------- No Effect
Trisodium Phosphate ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- Minor Effect
Turpentine ---------- **Severe Effect**
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- Minor Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Univolt #35 (Mineral Oil) ---------- No Effect

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Unsymmetrical Dimethyl Hydrazine ---------- Moderate Effect
Urea ---------- Minor Effect
Urine ---------- No Effect
Valeric Acid ---------- **Severe Effect**
Vanilla Extract ---------- No Effect
Varnish ---------- Minor Effect
Vegetable Juices ---------- No Effect
Vegetable Oils ---------- Minor Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- Moderate Effect
Vinyl Acetate ---------- **Severe Effect**
Vinyl Chloride ---------- **Severe Effect**
VV-H-910 ---------- **Severe Effect**
Walnut Oil ---------- No Effect
Water ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Acid Mine ---------- **Severe Effect**
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- Moderate Effect
Water, Glycol ---------- Moderate Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Weed Killers ---------- Minor Effect
Wemco C ---------- No Effect
Wetting Agents ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Oil ---------- No Effect
White Pine Oil ---------- Minor Effect
White Sulfate Liquor ---------- Minor Effect
Wines ---------- No Effect
Womar Salt ---------- No Effect
Wood Alcohol ---------- No Effect

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Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- **Severe Effect**
Xylidenes, Mixed, Aromatic ---------- **Severe Effect**
Zeolite ---------- Moderate Effect
Zinc Acetate ---------- Moderate Effect
Zinc Ammonium Chloride ---------- No Effect
Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Nitrate ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ Minor Effect
Zinc Plating, Acid Sulfate Bath 150 F -------- No Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Salts ---------- No Effect
Zinc Sulfate ---------- **Severe Effect**
Zinc Sulfate, 5% Solution ---------- No Effect
Zinc Sulfate, Saturated Solution ---------- No Effect

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Bunker Oil (Fuel) #5,#6 & C

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Butadiene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**

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PVC ---------- Moderate Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- Moderate Effect

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Butane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NORPRENE	Moderate Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**

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POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Moderate Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- No Effect

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Butane, 2,2-Dimethyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Butane, 2,3-Dimethyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Butanol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
TEFLON	No Effect
TEFLON	No Effect
VITON	No Effect

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Butter

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
NEOPRENE	Moderate Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Butter - Animal Fat

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Buttermilk

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Butyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect

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POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Butyl Acetyl Ricinoleate

Material Compatibility

MATERIAL	EFFECT
BUNA	Moderate Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Butyl Acrylate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Butyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Butyl Amine

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Butyl Benzoate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Butyl Bromide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Butyl Butyrate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Butyl Carbitol

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Butyl Cellosolve

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Butyl Cellosolve Adipate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	Minor Effect

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Butyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Butyl Ether

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Butyl Oleate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Butyl Phenol

Material Compatibility

MATERIAL	EFFECT
PVC	Moderate Effect

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Butyl Stearate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Butylamine FC75 (Fluorocarbon)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
VITON	Minor Effect

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Butylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Moderate Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Butyraldehyde

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Butyric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**

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POLYPROPYLENE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- **Severe Effect**
VITON ---------- Moderate Effect

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Butyric Anhydride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect

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Butyronitrile

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Cadmium Plating, Cyanide Bath 90 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	Moderate Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Cadmium Plating, Fluoborate Bath 100 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	Minor Effect
CERAMIC	**Severe Effect**
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Cadmium Sulfate (25% Concentration)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
COPPER	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect

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Calcine Liquors

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Calcium Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Calcium Acetate Hydrate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Moderate Effect
BUNA	Minor Effect
CAST IRON	Moderate Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Calcium Acid Sulphate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect

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Calcium Bisulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
EPOXY	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TYGON (E-3606)	No Effect
VITON	No Effect

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Calcium Bisulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Moderate Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Calcium Bisulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	**Severe Effect**
MONEL	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect

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POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Moderate Effect

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Calcium Carbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect

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RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Calcium Chlorate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect

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TEFLON ---------- No Effect
TYGON (E-3606) ---------- No Effect
VITON ---------- No Effect

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Calcium Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide) ---------- **Severe Effect**
PHENOLIC ---------- Minor Effect
POLYACETAL ---------- **Severe Effect**
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Calcium Cyanide

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Calcium Hydrosulfide

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	No Effect

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Calcium Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Moderate Effect

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SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Calcium Hydroxide, 10% (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Calcium Hydroxide, 20% (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
COPPER	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Calcium Hydroxide, 30% Boiling

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
CARBON	**Severe Effect**
ECTFE	No Effect
HASTELLOY C	No Effect
MONEL	Minor Effect
NORYL	No Effect
POLYPROPYLENE	No Effect

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Calcium Hydroxide, 50% (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
COPPER	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Calcium Hypochloride

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Calcium Hypochlorite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Calcium Hypochlorite, 5% 70 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ECTFE	No Effect
HYPALON	No Effect
NORYL	No Effect
POLYPROPYLENE	No Effect
VITON	No Effect

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Calcium Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Calcium Oxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Calcium Phosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Calcium Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Calcium Silicate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Calcium Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	No Effect
VITON	No Effect

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Calcium Sulfate - Saturated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
KALREZ	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Calcium Sulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Calcium Sulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Calcium Thiosulfate

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Calgon

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Caliche Liquors

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Camphor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
KALREZ	No Effect
TEFLON	No Effect

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Cane Juice

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
VITON	No Effect

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Cane Sugar Liquors

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Caproic Aldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
KALREZ	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Capryl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Caprylic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
HASTELLOY C	No Effect
TEFLON	No Effect

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Caprylic Acid (Caprillic Acid)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
TEFLON	No Effect

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Carbamate

Material Compatibility

MATERIAL	EFFECT
BUNA	Moderate Effect
E.P.D.M.	Moderate Effect
NEOPRENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Carbitol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Carbolic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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CARBON

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetate Solvents	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 95%	**Severe Effect**
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetone	Moderate Effect
Acetylene (Ethyne)	No Effect
Acrylonitrile	No Effect
Alcohol	Moderate Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Fluoride	No Effect
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 10%	No Effect
Aluminum Potassium Sulfate (Alum), 100%	No Effect
Aluminum Sulfate	No Effect
Amines	No Effect
Ammonia, Anhydrous, Liquid	Moderate Effect
Ammonia, Liquids	No Effect
Ammonia, Nitrate	No Effect

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Ammonium Carbonate ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Aniline ---------- No Effect
Aniline Oil ---------- No Effect
Anise Oil ---------- No Effect
Arochlor 1248 ---------- No Effect
Aromatic Hydrocarbons ---------- No Effect
Arsenic Acid ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- **Severe Effect**
Barium Cyanide ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- **Severe Effect**
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- No Effect
Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzoic Acid ---------- Moderate Effect
Benzol ---------- No Effect
Bone Oil ---------- No Effect
Borax ---------- No Effect

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Boric Acid ---------- No Effect
Brewery Slop ---------- No Effect
Bromine, Liquid ---------- **Severe Effect**
Butadiene ---------- No Effect
Butane ---------- No Effect
Butter ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 30% Boiling ---------- **Severe Effect**
Calcium Hypochlorite ---------- No Effect
Calcium Sulfate ---------- No Effect
Calgon ---------- No Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide ---------- No Effect
Carbon Disulfide ---------- Moderate Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Chloracetic Acid ---------- No Effect
Chlorinated Water, Saturate ---------- **Severe Effect**
Chlorine Water ---------- Moderate Effect
Chlorine, Anhydrous Liquid ---------- No Effect
Chlorine, Dry ---------- No Effect
Chloroacetic Acid ---------- **Severe Effect**

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Chlorobenzene ---------- No Effect
Chloroform ---------- No Effect
Chlorox ---------- No Effect
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Cider (Apple Juice) ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, Hot Conc. ---------- **Severe Effect**
Citric Oils ---------- No Effect
Clove Oil ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Cresol ---------- No Effect
Cresylic Acid ---------- No Effect
Cyclohexane ---------- No Effect
Cycolic Acid ---------- No Effect
Detergent Solutions ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Glycol ---------- No Effect
Diphenyl Oxide ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Chloride ---------- No Effect

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Ethyl Sulfate ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Dichloride ---------- Moderate Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- Moderate Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluboric Acid ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- No Effect
Formaldehyde, 40% ---------- **Severe Effect**
Formic Acid ---------- No Effect
Freon 11 ---------- No Effect
Freon 113 ---------- No Effect
Freon 12 ---------- No Effect
Freon 22 ---------- No Effect
Freon T.F. ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furfural ---------- No Effect
Gelatin ---------- No Effect
Ginger Oil ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Gold Monocyanide ---------- No Effect
Grape Juice ---------- No Effect
Grease ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect

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Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrochloric Acid (Dry Gas) ---------- No Effect
Hydrochloric Acid, 100% ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- Minor Effect
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Sulfide ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroxyacetic Acid, 70% ---------- No Effect
Ink ---------- No Effect
Iodine ---------- **Severe Effect**
Isopropyl Acetate ---------- No Effect
Isopropyl Ether ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- Moderate Effect
Lacquers ---------- No Effect
Lactic Acid ---------- No Effect
Lard ---------- No Effect
Lead Acetate ---------- No Effect
Lemon Oil ---------- No Effect
Lime ---------- No Effect
Linseed Oil ---------- No Effect
Lubricants ---------- No Effect
Magnesium Hydorxide ---------- Moderate Effect

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Magnesium Sulfate ---------- No Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Mash ---------- No Effect
Mayonnaise ---------- No Effect
Melamine ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercury ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Dichloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Isobutyl Ketone ---------- No Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- No Effect
Methylamine ---------- No Effect
Methylene Chloride ---------- No Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
Mustard ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Sulfate ---------- No Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- Moderate Effect
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitrobenzene ---------- No Effect
Oleic Acid ---------- No Effect
Olive Oil ---------- No Effect

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Orange Oil ---------- No Effect
Oxalic Acid ---------- No Effect
Palm Oil ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Peanut Oil ---------- No Effect
Penthane ---------- No Effect
Peppermint Oil ---------- No Effect
Perchloroethylene ---------- No Effect
Petrolatum ---------- No Effect
Phenol (Carbolic Acid) ---------- No Effect
Phosphoric Acid (Crude) ---------- Moderate Effect
Phosphoric Anhydride (Dry or Moist) ---------- No Effect
Photographic Solutions ---------- No Effect
Pine Oil ---------- No Effect
Potash ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- Moderate Effect
Potassium Chlorate ---------- Moderate Effect
Potassium Chloride ---------- **Severe Effect**
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- Moderate Effect
Potassium Dichromate ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propylene Glycol ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- No Effect
Rape-Seed Oil ---------- No Effect
Rosin ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Salad Dressing ---------- No Effect
Sea Water ---------- No Effect

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Sesame Seed Oil ---------- No Effect
Silicone ---------- No Effect
Silver Bromide ---------- No Effect
Silver Nitrate ---------- No Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Moderate Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Cyanide ---------- Moderate Effect
Sodium Hydroxide ---------- Moderate Effect
Sodium Hydroxide, 20% ---------- Moderate Effect
Sodium Hydroxide, 50% ---------- Moderate Effect
Sodium Hydroxide, 80% ---------- Moderate Effect
Sodium Hypochlorite (to 20%) ---------- **Severe Effect**
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate ---------- No Effect
Sodium Nitrate ---------- Moderate Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- Moderate Effect
Sodium Sulfide ---------- Moderate Effect
Sodium Sulfite ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- **Severe Effect**
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect

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Sperm Oil (Whale Oil) ---------- No Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Liquors ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfurous Acid ---------- Minor Effect
Syrup ---------- No Effect
Tallow ---------- No Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tanning Oil ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrahydrofuran ---------- No Effect
Toluene ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Trichloroethane ---------- Moderate Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- No Effect
Turbine Oil ---------- No Effect
Turpentine ---------- Moderate Effect
Urine ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oils ---------- Moderate Effect
Vinegar ---------- **Severe Effect**
Water Acid, Mine ---------- No Effect

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Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Water (Paper Mill) ---------- No Effect
Xylene ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Sulfate ---------- No Effect

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Carbon Bisulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect

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POLYACETAL ---------- No Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- Minor Effect

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Carbon Dioxide

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Carbon Dioxide, Dry

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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Carbon Dioxide, Wet

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Carbon Disulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	Minor Effect
CERAMIC ALUMINA	Minor Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	**Severe Effect**
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**

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POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- **Severe Effect**
POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VITON ---------- Minor Effect

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Carbon Monoxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
SILICON	Minor Effect
TEFLON	No Effect
VITON	Moderate Effect

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CARBON STEEL

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetaldehyde	Moderate Effect
Acetamide	**Severe Effect**
Acetate Solvents	**Severe Effect**
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 5%	Moderate Effect
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	**Severe Effect**
Acetyl Chloride	Minor Effect
Acetyl Salicylic Acid	**Severe Effect**
Acetylene (Ethyne)	No Effect
Acetylene (Ethyne)	No Effect
Acetylene Tetrabromide	**Severe Effect**
Acrolein (Acrylaldehyde)	Minor Effect
Acrylonitrile	No Effect
Adipic Acid	No Effect

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Aero Lubriplate ---------- No Effect
Aerosafe 2300 ---------- No Effect
Aerosafe 2300W ---------- No Effect
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- Moderate Effect
Alcohol, Butyl ---------- Moderate Effect
Alcohol, Diacetone ---------- No Effect
Alcohol, Ethyl ---------- No Effect
Alcohol, Hexyl ---------- No Effect
Alcohol, Isobutyl ---------- No Effect
Alcohol, Isopropyl ---------- No Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- Minor Effect
Allyl Alcohol ---------- No Effect
Allyl Bromide ---------- No Effect
Allyl Chloride ---------- **Severe Effect**
Alum ---------- **Severe Effect**
Aluminum Acetate ---------- **Severe Effect**
Aluminum Chloride ---------- Minor Effect
Aluminum Chloride, 20% ---------- No Effect
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Nitride ---------- **Severe Effect**
Aluminum Potassium Sulfate ---------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 10% ------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 100% ------ No Effect
Aluminum Potassium Sulfate, 2% Solution ------ **Severe Effect**
Aluminum Sulfate ---------- **Severe Effect**
AMERSEP MP-7 ---------- **Severe Effect**
Amines ---------- Minor Effect

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Ammonia, Anhydrous, Liquid ---------- Minor Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Acetate ---------- Minor Effect
Ammonium Bicarbonate ---------- Minor Effect
Ammonium Bifluoride, 10% ---------- **Severe Effect**
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- **Severe Effect**
Ammonium Chloride, 1% ---------- **Severe Effect**
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- **Severe Effect**
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Monophosphate ---------- **Severe Effect**
Ammonium Nitrate ---------- **Severe Effect**
Ammonium Nitrite ---------- Minor Effect
Ammonium Oxalate ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- **Severe Effect**
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- **Severe Effect**
Ammonium Phosphate, Di-Basic ---------- **Severe Effect**
Ammonium Phosphate, Monobasic ---------- **Severe Effect**
Ammonium Phosphate, Tri-Basic ---------- **Severe Effect**
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- **Severe Effect**
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Plus 5% Sulfuric Acid ------ **Severe Effect**

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Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Ammonium Thiocyanate ------------------------ **Severe Effect**
Ammonium Thiosulfate ------------------------ **Severe Effect**
Ammonium Triphosphate ----------------------- **Severe Effect**
Amyl Acetate -------------------------------- Moderate Effect
Amyl Alcohol -------------------------------- Minor Effect
Amyl Chloride ------------------------------- No Effect
Anhydrous Ammonia --------------------------- No Effect
Aniline ------------------------------------- Moderate Effect
Aniline Dyes -------------------------------- Minor Effect
Aniline Hydrochloride ----------------------- **Severe Effect**
Animal Fats & Oils -------------------------- No Effect
Anthraquinone ------------------------------- Minor Effect
Anti-Freeze (Alcohol Base) ------------------ No Effect
Anti-Freeze (Glycol Base) ------------------- No Effect
Aqua Regia ---------------------------------- **Severe Effect**
Argon --------------------------------------- No Effect
Arochlor 1248 ------------------------------- Minor Effect
Aromatic Hydrocarbons ----------------------- Minor Effect
Arsenic Acid -------------------------------- **Severe Effect**
Arsenic Trichloride ------------------------- **Severe Effect**
Arsenious Acid ------------------------------ **Severe Effect**
Ascorbic Acid ------------------------------- **Severe Effect**
Asphalt ------------------------------------- No Effect
Asphalt Topping ----------------------------- No Effect
ASTM, Ref #1 Oil ---------------------------- No Effect
ASTM, Ref #2 Oil ---------------------------- No Effect
ASTM, Ref #3 Oil ---------------------------- No Effect
ASTM, Ref #4 Oil ---------------------------- No Effect
Automatic Brake Fluid ----------------------- No Effect
Automatic Transmission Fluid ---------------- No Effect
Automotive Gasoline (Standard) -------------- No Effect
Aviation Gasoline --------------------------- No Effect
Baking Enamels, Synthetic ------------------- No Effect
Barbeque Sauce ------------------------------ **Severe Effect**
Barium Carbonate ---------------------------- No Effect

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Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- Minor Effect
Barium Chloride, 5% ---------- Minor Effect
Barium Cyanide ---------- No Effect
Barium Hydroxide ---------- **Severe Effect**
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- Moderate Effect
Barium Sulfate Aqueous Solution (Hot) -------- Minor Effect
Barium Sulfide ---------- **Severe Effect**
Beef Extract ---------- **Severe Effect**
Beer ---------- **Severe Effect**
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- **Severe Effect**
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- Minor Effect
Benzaldehyde ---------- No Effect
Benzene ---------- Moderate Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- **Severe Effect**
Benzol ---------- Minor Effect
Benzophenone ---------- Minor Effect
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- No Effect
Benzyl Dichloride ---------- Minor Effect
Biphenyl ---------- No Effect
Black Sulfate Liquor ---------- Minor Effect
Borax ---------- Moderate Effect
Bordeaux Mixture ---------- **Severe Effect**
Boric Acid ---------- **Severe Effect**
Brake Fluid (Non-Petroleum) ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- Minor Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**

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Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- Minor Effect
Bromochloromethane ---------- Minor Effect
Bromotoluene ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- Moderate Effect
Butane ---------- Moderate Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- **Severe Effect**
Buttermilk ---------- **Severe Effect**
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- Minor Effect
Butyl Alcohol ---------- Minor Effect
Butyl Chloride ---------- Minor Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Butyric Anhydride ---------- No Effect
Cadmium Sulfate (25% Concentration) ---------- Minor Effect
Calcium Acetate ---------- Minor Effect
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- Minor Effect
Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- Minor Effect
Calcium Cyanide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- Minor Effect
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Nitrate ---------- **Severe Effect**
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- Minor Effect

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Calcium Sulfate - Saturated ---------- Minor Effect
Calcium Sulfide ---------- Minor Effect
Calcium Sulfite ---------- Minor Effect
Caliche Liquors ---------- No Effect
Camphor ---------- Minor Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Capryl Alcohol ---------- No Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- **Severe Effect**
Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- Moderate Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Carbonic Acid ---------- **Severe Effect**
Castor Oil ---------- Minor Effect
Catsup ---------- **Severe Effect**
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- **Severe Effect**
Chlorinated Lime, 35% (Bleach) ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**

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Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Moderate Effect
Chlorobromomethane ---------- Minor Effect
Chlorobutadiene ---------- Minor Effect
Chloroform ---------- Moderate Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorotoluene ---------- Minor Effect
Chlorox ---------- **Severe Effect**
Chocolate Syrup ---------- **Severe Effect**
Chrome Alum ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromium Sulfate (Basic) ---------- **Severe Effect**
Cider (Apple Juice) ---------- **Severe Effect**
Cinnamon Oil ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid, 15% Solution ---------- **Severe Effect**
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- **Severe Effect**
Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- **Severe Effect**
Clove Oil ---------- **Severe Effect**
Copper Acetate, Saturated Solution ---------- **Severe Effect**
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate, 1% & 5% ---------- **Severe Effect**
Copper Nitrate, 50% Aqueous Solution (Hot) --- **Severe Effect**
Copper Sulfate ---------- **Severe Effect**
Copper Sulfate, 10% ---------- **Severe Effect**
Copper Sulfate, 5% ---------- **Severe Effect**
Copper Sulphate, Saturated Solution (Boiling) **Severe Effect**

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Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- Moderate Effect
Cream ---------- **Severe Effect**
Creosols ---------- No Effect
Creosols ---------- No Effect
Cresylic Acid ---------- No Effect
Crotonaldehyde ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
D.D.T. ---------- **Severe Effect**
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- **Severe Effect**
Dextrose ---------- **Severe Effect**
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Amine ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Diemethyl Formamide ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Carbonate ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect

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Diethyl Sebacate ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisobutylene ---------- Minor Effect
Diisopropyl Ketone ---------- No Effect
Dimethyl Sulfate ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dioxane ---------- No Effect
Dipentene ---------- No Effect
Diphenyl ---------- Minor Effect
Diphenyl Oxide ---------- No Effect
Dipsersing Oil #10 ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- **Severe Effect**
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- Minor Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- Moderate Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- Minor Effect
Ethyl Acetate ---------- Moderate Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- Minor Effect
Ethyl Amine ---------- Minor Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect

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Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Chloride ---------- **Severe Effect**
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Mercaptan ---------- No Effect
Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- Minor Effect
Ethylene ---------- No Effect
Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- Minor Effect
Ethylene Diamine ---------- No Effect
Ethylene Dichloride ---------- Moderate Effect
Ethylene Glycol ---------- Moderate Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monomethyl Ether ---------- Minor Effect
Ethylene Oxide ---------- **Severe Effect**
Ethylene Trichloride ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- Minor Effect
Fatty Acids ---------- **Severe Effect**
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- **Severe Effect**
Ferric Sulphate 1% to 5% ---------- **Severe Effect**
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- **Severe Effect**
Ferrous Sulfate (Copperas) ---------- **Severe Effect**
Ferrous Sulfate, 10% Solution ---------- **Severe Effect**

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Fish Liver Oils ---------- **Severe Effect**
Fluorboric Acid ---------- No Effect
Fluoride (Dry) ---------- **Severe Effect**
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- **Severe Effect**
Formamide ---------- Minor Effect
Formic Acid ---------- **Severe Effect**
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon 11 ---------- Minor Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- **Severe Effect**
Fuel Oil ---------- Minor Effect

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Fumaric Acid ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- **Severe Effect**
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- **Severe Effect**
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- Minor Effect
Gelatin ---------- **Severe Effect**
Ginger Oil ---------- **Severe Effect**
Glucose ---------- Minor Effect
Glue ---------- No Effect
Glutamic Acid ---------- **Severe Effect**
Glycerine or Glycerol ---------- Minor Effect
Gold Monocyanide ---------- **Severe Effect**
Grape Juice ---------- **Severe Effect**
Grapefruit Oil ---------- **Severe Effect**
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- **Severe Effect**
Heptanal ---------- No Effect
Heptane ---------- Minor Effect
Hexamine ---------- No Effect
Hexane ---------- Minor Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine (Diamine) ---------- **Severe Effect**
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**

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Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Dry Gas) ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Fluoride ---------- No Effect
Hydrogen Gas ---------- Minor Effect
Hydrogen Gas (Cold) ---------- Minor Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Sulfide (Dry) ---------- Minor Effect
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- Minor Effect
Hydrogen Sulfide Wet, Hot ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hydroquinone ---------- No Effect
Hydroxyacetic Acid, 10% ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Illuminating Gas ---------- No Effect
Ink ---------- **Severe Effect**
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodoform ---------- Minor Effect
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isobutyl Chloride ---------- Minor Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isophorone ---------- Minor Effect

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Isopropanol ---------- No Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- No Effect
Isopropyl Chloride ---------- No Effect
Isopropyl Ether ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- Minor Effect
Ketones ---------- No Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- Minor Effect
Lacquers ---------- **Severe Effect**
Lactic Acid ---------- **Severe Effect**
Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- **Severe Effect**
Lactol ---------- No Effect
Lard ---------- Moderate Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Lauryl Alcohol ---------- No Effect
Lead Acetate ---------- **Severe Effect**
Light Grease ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- **Severe Effect**
Lime Bleach ---------- **Severe Effect**
Lime Slurries ---------- **Severe Effect**
Lime Sulfur ---------- Minor Effect
Lindol ---------- No Effect
Linoleic Acid ---------- **Severe Effect**

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Linseed Oil ---------- No Effect
Lithium Bromide ---------- No Effect
Lithium Hydroxide ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- Moderate Effect
Magnesium Hydorxide ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- Minor Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- Minor Effect
Malic Acid ---------- **Severe Effect**
Malt Beverages ---------- **Severe Effect**
Manganese Chloride ---------- Minor Effect
Mayonnaise ---------- **Severe Effect**
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercuric Cyanide ---------- **Severe Effect**
Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- Minor Effect
Methyl Acetoacetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Alcohol, 10% ---------- Minor Effect
Methyl Amine ---------- No Effect
Methyl Amyl Acetate ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect

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Methyl Bromide ---------- No Effect
Methyl Butyrate ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Cyanide ---------- Minor Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- Minor Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methyl Methacrylate ---------- Minor Effect
Methyl Salicylate ---------- No Effect
Methylamine ---------- Minor Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- **Severe Effect**
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- Minor Effect
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- Minor Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochloracetic Acid ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethyl Hydrazine ---------- No Effect
Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
Mustard ---------- **Severe Effect**
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect

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N-Pentane ---------- Minor Effect
Naptha ---------- Minor Effect
Naptha-Coal Tar (Benzol) ---------- Minor Effect
Napthalene ---------- No Effect
Napthenic Acid ---------- Minor Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Neosol ---------- Minor Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- Minor Effect
Nickel Sulfate ---------- **Severe Effect**
Nicotine ---------- Minor Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect
Nitroethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- **Severe Effect**
Nitrous Gases ---------- Minor Effect
Nitrous Oxide ---------- Minor Effect
O-Chloronaphthalene ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect
Oleic Acid ---------- Moderate Effect

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Oleum ---------- Minor Effect
Oleum Spirits ---------- **Severe Effect**
Olive Oil ---------- Minor Effect
Oxalic Acid ---------- **Severe Effect**
Oxalic Acid, 10% Solution ---------- **Severe Effect**
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- **Severe Effect**
Oxygen, Cold ---------- Minor Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- **Severe Effect**
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Paraffins (Paraffin Oil) ---------- Minor Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Pentachloroethane ---------- No Effect
Pentachlorophenol ---------- No Effect
Penthane ---------- Minor Effect
Perchloric Acid ---------- **Severe Effect**
Perchloroethylene ---------- Minor Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petrolatum ---------- Moderate Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- Minor Effect
Phenethyl Alcohol ---------- No Effect
Phenol ---------- No Effect
Phenol (Carbolic Acid) ---------- **Severe Effect**
Phenol Sulfonic Acid ---------- Minor Effect
Phenol, 10% ---------- **Severe Effect**
Phosphoric Acid (Aerated) ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid Air Free ---------- **Severe Effect**
Phosphoric Acid, 10% ---------- **Severe Effect**

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Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphorous ---------- Minor Effect
Phosphorus Oxychloride ---------- **Severe Effect**
Phosphorus Trichloride ---------- Minor Effect
Photographic Developers ---------- **Severe Effect**
Phthalic Anhydride ---------- Moderate Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid ---------- **Severe Effect**
Picric Acid, H2O Solution ---------- **Severe Effect**
Pine Oil ---------- Minor Effect
Pneumatic Service ---------- No Effect
Polyvinyl Acetate Emulsion ---------- Minor Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- **Severe Effect**
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- Minor Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Moderate Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanide ---------- Moderate Effect
Potassium Ferrocyanine ---------- Minor Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 70% Solution (Hot) ------ **Severe Effect**
Potassium Hypochlorite ---------- No Effect

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Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- Minor Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Oxalate ---------- No Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Peroxide ---------- Minor Effect
Potassium Phosphate ---------- **Severe Effect**
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- Minor Effect
Propionaldehyde ---------- No Effect
Propionic Acid ---------- No Effect
Propyl Acetate ---------- No Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- Minor Effect
Propylene Oxide ---------- Minor Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- **Severe Effect**
Pyroligneous Acid ---------- No Effect
Quaternary Ammonium Salts ---------- **Severe Effect**
Resins and Rosins ---------- **Severe Effect**
Rosin ---------- Moderate Effect
Rust Inhibitors ---------- **Severe Effect**
Sal Ammoniac ---------- **Severe Effect**

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Sal Soda ---------- No Effect
Salad Dressing ---------- **Severe Effect**
Salicylic Acid ---------- **Severe Effect**
Salt Water ---------- **Severe Effect**
Santo Safe 300 ---------- No Effect
Sea Water ---------- **Severe Effect**
Sesame Seed Oil ---------- No Effect
Sewage ---------- **Severe Effect**
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- **Severe Effect**
Silver Chloride ---------- **Severe Effect**
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- **Severe Effect**
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Moderate Effect
Sodium Aluminate ---------- Moderate Effect
Sodium Bicarbonate ---------- Moderate Effect
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- **Severe Effect**
Sodium Borate ---------- Moderate Effect
Sodium Bromide ---------- Minor Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- **Severe Effect**
Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chromate ---------- Minor Effect
Sodium Citrate ---------- No Effect

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Sodium Cyanide ---------- Minor Effect
Sodium Ferrocyanide ---------- Minor Effect
Sodium Fluoride ---------- **Severe Effect**
Sodium Fluoride, 5% ---------- Minor Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) ---------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) ---------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Hyposulfate ---------- **Severe Effect**
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate ---------- Moderate Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- Minor Effect
Sodium Nitrate ---------- Minor Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Perborate ---------- **Severe Effect**
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- **Severe Effect**
Sodium Resinate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate ---------- Minor Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- Minor Effect
Sodium Sulfite, 10% Solution @ 150 F ---------- Minor Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- Minor Effect
Sodium Thiosulfate ---------- **Severe Effect**

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Sorghum ---------- No Effect
Soy Sauce ---------- **Severe Effect**
SP-90X ---------- **Severe Effect**
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**
Stannic Fluoborate ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Stanous Chloride, 15% ---------- **Severe Effect**
Starch ---------- Moderate Effect
Steam, Above 350 F ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- **Severe Effect**
Stoddard Solvent ---------- Minor Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- Minor Effect
Sulfate Black Liquor ---------- Minor Effect
Sulfate Green Liquor ---------- Minor Effect
Sulfite Liquors ---------- **Severe Effect**
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- Minor Effect
Sulfur Trioxide ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid (Aerated) No Velocity ---------- Minor Effect
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Fuming) ---------- Minor Effect
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- Minor Effect
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**

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Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------- Minor Effect
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Tall Oil (Liquid Rosin) ---------- Minor Effect
Tannic Acid ---------- Moderate Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- **Severe Effect**
Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Thionyl Chloride ---------- **Severe Effect**
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- Moderate Effect
Toothpaste ---------- **Severe Effect**
Transformer Oil ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributyl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- Minor Effect
Trichloroethylene ---------- **Severe Effect**
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect

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Triethyl Amine ---------- No Effect
Trimethylene Glycol ---------- No Effect
Triphenyl Phosphsite ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- **Severe Effect**
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Uric Acid ---------- **Severe Effect**
Urine ---------- No Effect
Varnish ---------- Moderate Effect
Vegetable Juices ---------- **Severe Effect**
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- Minor Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- **Severe Effect**
Vinyl Acetate ---------- Minor Effect
Vinyl Chloride ---------- Minor Effect
Water ---------- **Severe Effect**
Water, Acid Mine ---------- **Severe Effect**
Water, Brine, Process, Beverage ---------- **Severe Effect**
Water, Distilled ---------- **Severe Effect**
Water, Fresh ---------- **Severe Effect**
Water, Salt ---------- **Severe Effect**
Whiskey ---------- **Severe Effect**
White Sulfate Liquor ---------- Minor Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Wort, Distillery ---------- Minor Effect
Xylene ---------- Minor Effect

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Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Chloride, 5% Solution ---------- **Severe Effect**
Zinc Hydrosulfite ---------- **Severe Effect**
Zinc Sulfate ---------- **Severe Effect**
Zinc Sulfate, 25% Solution (Boiling) ---------- **Severe Effect**
Zinc Sulfate, 5% Solution ---------- **Severe Effect**
Zinc Sulfate, Saturated Solution ---------- **Severe Effect**

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CARBON STEEL HARDENED

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetaldehyde	Minor Effect
Acetate Solvents	Minor Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	**Severe Effect**
Acetyl Chloride	Minor Effect
Acetylene (Ethyne)	No Effect
Acrylonitrile	No Effect
Adipic Acid	No Effect
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect
Aerosafe 2300W	No Effect
Aeroshell 17 Grease	No Effect
Aeroshell 1AC	No Effect
Aeroshell 750	No Effect

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Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Ethyl ---------- Minor Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- Minor Effect
Alcohol, Propyl ---------- Minor Effect
Allyl Alcohol ---------- No Effect
Allyl Bromide ---------- No Effect
Allyl Chloride ---------- **Severe Effect**
Alum ---------- **Severe Effect**
Aluminum Acetate ---------- **Severe Effect**
Aluminum Chloride ---------- **Severe Effect**
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Nitride ---------- **Severe Effect**
Aluminum Potassium Sulfate ---------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 10% ------- **Severe Effect**
Aluminum Potassium Sulfate, 2% Solution ------ **Severe Effect**
Aluminum Sulfate ---------- **Severe Effect**
AMERSEP MP-7 ---------- **Severe Effect**
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Bicarbonate ---------- Minor Effect
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride, 1% ---------- **Severe Effect**
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- **Severe Effect**
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Monophosphate ---------- **Severe Effect**
Ammonium Nitrate ---------- Minor Effect

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Ammonium Nitrite ---------- Minor Effect
Ammonium Oxalate, 5% Sol. ---------- **Severe Effect**
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- **Severe Effect**
Ammonium Phosphate, Di-Basic ---------- **Severe Effect**
Ammonium Phosphate, Monobasic ---------- **Severe Effect**
Ammonium Phosphate, Tri-Basic ---------- **Severe Effect**
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- **Severe Effect**
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Plus 5% Sulfuric Acid ------ **Severe Effect**
Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Ammonium Thiocyanate ---------- **Severe Effect**
Ammonium Thiosulfate ---------- **Severe Effect**
Ammonium Triphosphate ---------- **Severe Effect**
Amyl Acetate ---------- Minor Effect
Amyl Alcohol ---------- Minor Effect
Amyl Chloride ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- Minor Effect
Aniline Dyes ---------- Minor Effect
Aniline Hydrochloride ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Anthraquinone ---------- Minor Effect
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- Minor Effect
Arsenic Acid ---------- **Severe Effect**
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- **Severe Effect**

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Ascorbic Acid ---------- **Severe Effect**
Asphalt ---------- No Effect
Asphalt Topping ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Barbeque Sauce ---------- **Severe Effect**
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- Minor Effect
Barium Chloride, 5% ---------- Minor Effect
Barium Cyanide ---------- Minor Effect
Barium Hydroxide ---------- **Severe Effect**
Barium Sulfate ---------- Minor Effect
Barium Sulfate Aqueous Solution (Hot) -------- Minor Effect
Barium Sulfide ---------- **Severe Effect**
Beef Extract ---------- **Severe Effect**
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- **Severe Effect**
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- Minor Effect
Benzaldehyde ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- **Severe Effect**
Benzol ---------- No Effect
Benzophenone ---------- Minor Effect
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- No Effect

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Benzyl Dichloride ---------- Minor Effect
Biphenyl ---------- No Effect
Black Sulfate Liquor ---------- Minor Effect
Borax ---------- Minor Effect
Bordeaux Mixture ---------- **Severe Effect**
Boric Acid ---------- **Severe Effect**
Brake Fluid (Non-Petroleum) ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- Minor Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromobenzene ---------- Minor Effect
Bromochloromethane ---------- Minor Effect
Bromotoluene ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- **Severe Effect**
Buttermilk ---------- **Severe Effect**
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- Minor Effect
Butyl Alcohol ---------- Minor Effect
Butyl Chloride ---------- Minor Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Butyric Anhydride ---------- No Effect
Cadmium Sulfate (25% Concentration) ---------- Minor Effect
Calcium Acetate ---------- Minor Effect
Calcium Bisulfite ---------- **Severe Effect**

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Calcium Carbonate ---------- Minor Effect
Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- Minor Effect
Calcium Cyanide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- Minor Effect
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Nitrate ---------- **Severe Effect**
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- Minor Effect
Calcium Sulfate - Saturated ---------- Minor Effect
Calcium Sulfide ---------- Minor Effect
Calcium Sulfite ---------- Minor Effect
Caliche Liquors ---------- No Effect
Camphor ---------- Minor Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Capryl Alcohol ---------- No Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- **Severe Effect**
Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- No Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Carbonic Acid ---------- **Severe Effect**
Castor Oil ---------- Minor Effect
Catsup ---------- **Severe Effect**
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chloric Acid ---------- **Severe Effect**

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Chlorinated Glue ---------- **Severe Effect**
Chlorinated Lime, 35% (Bleach) ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobromomethane ---------- Minor Effect
Chlorobutadiene ---------- Minor Effect
Chloroform ---------- Minor Effect
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorotoluene ---------- Minor Effect
Chlorox ---------- **Severe Effect**
Chocolate Syrup ---------- **Severe Effect**
Chrome Alum ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromium Sulfate (Basic) ---------- **Severe Effect**
Cider (Apple Juice) ---------- **Severe Effect**
Cinnamon Oil ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid, 15% Solution ---------- **Severe Effect**
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- **Severe Effect**
Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- **Severe Effect**
Clove Oil ---------- **Severe Effect**
Copper Acetate, Saturated Solution ---------- **Severe Effect**

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Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate, 1% & 5% ---------- **Severe Effect**
Copper Nitrate, 50% Aqueous Solution (Hot) --- **Severe Effect**
Copper Sulfate ---------- **Severe Effect**
Copper Sulfate, 10% ---------- **Severe Effect**
Copper Sulfate, 5% ---------- **Severe Effect**
Copper Sulphate, Saturated Solution (Boiling) **Severe Effect**
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- **Severe Effect**
Cresylic Acid ---------- No Effect
Crotonaldehyde ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
D.D.T. ---------- **Severe Effect**
Developing Fluids & Solutions ---------- **Severe Effect**
Dextrose ---------- **Severe Effect**
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Amine ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Diemethyl Formamide ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect

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Diethyl Amine ---------- No Effect
Diethyl Carbonate ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisobutylene ---------- Minor Effect
Diisopropyl Ketone ---------- No Effect
Dimethyl Sulfate ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dioxane ---------- No Effect
Dipentene ---------- No Effect
Diphenyl ---------- Minor Effect
Diphenyl Oxide ---------- No Effect
Dipsersing Oil #10 ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- **Severe Effect**
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- Minor Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect

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Ethyl Alcohol ---------- Minor Effect
Ethyl Amine ---------- Minor Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Mercaptan ---------- No Effect
Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- Minor Effect
Ethylene ---------- No Effect
Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- Minor Effect
Ethylene Diamine ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Glycol Monomethyl Ether ---------- Minor Effect
Ethylene Oxide ---------- **Severe Effect**
Ethylene Trichloride ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- Minor Effect
Fatty Acids ---------- **Severe Effect**
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- **Severe Effect**
Ferric Sulphate 1% to 5% ---------- **Severe Effect**
Ferrous Chloride ---------- **Severe Effect**

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Ferrous Sulfate (Copperas) ---------- **Severe Effect**
Ferrous Sulfate, 10% Solution ---------- **Severe Effect**
Fish Liver Oils ---------- **Severe Effect**
Fluorboric Acid ---------- No Effect
Fluoride (Dry) ---------- **Severe Effect**
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formamide ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fuel Oil ---------- No Effect
Fumaric Acid ---------- No Effect
Furfural ---------- Minor Effect
Furfuraldehyde ---------- **Severe Effect**
Furfuryl Alcohol ---------- No Effect

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Gallic Acid ---------- **Severe Effect**
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- Minor Effect
Gelatin ---------- No Effect
Ginger Oil ---------- **Severe Effect**
Glucose ---------- No Effect
Glutamic Acid ---------- **Severe Effect**
Gold Monocyanide ---------- **Severe Effect**
Grape Juice ---------- **Severe Effect**
Grapefruit Oil ---------- **Severe Effect**
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- **Severe Effect**
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine (Diamine) ---------- **Severe Effect**
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**

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Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Fluoride ---------- No Effect
Hydrogen Gas (Cold) ---------- Minor Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- Minor Effect
Hydrogen Sulfide Wet, Hot ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hydroquinone ---------- No Effect
Hydroxyacetic Acid, 10% ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Illuminating Gas ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isobutyl Chloride ---------- Minor Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isophorone ---------- Minor Effect
Isopropanol ---------- No Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- No Effect
Isopropyl Chloride ---------- No Effect
Isopropyl Ether ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- No Effect

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Ketones ---------- No Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- Minor Effect
Lacquers ---------- **Severe Effect**
Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- **Severe Effect**
Lactol ---------- No Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Lauryl Alcohol ---------- No Effect
Lead Acetate ---------- No Effect
Light Grease ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- **Severe Effect**
Lime Bleach ---------- **Severe Effect**
Lime Slurries ---------- **Severe Effect**
Lime Sulfur ---------- Minor Effect
Lindol ---------- No Effect
Linoleic Acid ---------- **Severe Effect**
Linseed Oil ---------- No Effect
Lithium Bromide ---------- No Effect
Lithium Hydroxide ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- Minor Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- Minor Effect
Malt Beverages ---------- **Severe Effect**
Mayonnaise ---------- **Severe Effect**
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**

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Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetoacetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Amine ---------- No Effect
Methyl Amyl Acetate ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Butyrate ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Cyanide ---------- Minor Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- Minor Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methyl Methacrylate ---------- Minor Effect
Methyl Salicylate ---------- No Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- **Severe Effect**
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- No Effect
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- Minor Effect

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Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochloracetic Acid ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethyl Hydrazine ---------- No Effect
Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
Mustard ---------- **Severe Effect**
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect
N-Pentane ---------- Minor Effect
Naptha ---------- Minor Effect
Naptha-Coal Tar (Benzol) ---------- Minor Effect
Napthalene ---------- No Effect
Napthenic Acid ---------- Minor Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Neosol ---------- Minor Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- Minor Effect
Nickel Sulfate ---------- **Severe Effect**
Nicotine ---------- Minor Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect

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Nitroethane ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- **Severe Effect**
Nitrous Gases ---------- Minor Effect
O-Chloronaphthalene ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect
Oleic Acid ---------- Minor Effect
Oleum Spirits ---------- **Severe Effect**
Olive Oil ---------- No Effect
Oxalic Acid, 10% Solution ---------- **Severe Effect**
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- **Severe Effect**
Oxygen, Cold ---------- Minor Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- **Severe Effect**
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Pentachloroethane ---------- No Effect
Pentachlorophenol ---------- No Effect
Perchloric Acid ---------- **Severe Effect**
Perchloroethylene ---------- No Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- Minor Effect
Phenethyl Alcohol ---------- No Effect
Phenol ---------- No Effect
Phenol Sulfonic Acid ---------- Minor Effect
Phosphoric Acid (Aerated) ---------- **Severe Effect**

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Phosphoric Acid Air Free ---------- **Severe Effect**
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphorous ---------- Minor Effect
Phosphorus Oxychloride ---------- **Severe Effect**
Phosphorus Trichloride ---------- Minor Effect
Photographic Developers ---------- **Severe Effect**
Phthalic Acid ---------- Minor Effect
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- No Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid, H2O Solution ---------- **Severe Effect**
Pine Oil ---------- Minor Effect
Pneumatic Service ---------- No Effect
Polyvinyl Acetate Emulsion ---------- Minor Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- **Severe Effect**
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chromate ---------- No Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- No Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanine ---------- Minor Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 70% Solution (Hot) ------ **Severe Effect**
Potassium Hypochlorite ---------- No Effect
Potassium Iodide ---------- No Effect

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Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Oxalate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Peroxide ---------- Minor Effect
Potassium Phosphate ---------- **Severe Effect**
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propionaldehyde ---------- No Effect
Propionic Acid ---------- No Effect
Propyl Acetate ---------- No Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- Minor Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- **Severe Effect**
Pyroligneous Acid ---------- No Effect
Quaternary Ammonium Salts ---------- **Severe Effect**
Resins and Rosins ---------- **Severe Effect**
Rosin ---------- Minor Effect
Rust Inhibitors ---------- **Severe Effect**
Sal Ammoniac ---------- **Severe Effect**
Sal Soda ---------- No Effect

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Salad Dressing ---------- **Severe Effect**
Salicylic Acid ---------- No Effect
Salt Water ---------- **Severe Effect**
Santo Safe 300 ---------- No Effect
Sea Water ---------- **Severe Effect**
Sesame Seed Oil ---------- No Effect
Sewage ---------- **Severe Effect**
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone Oils ---------- No Effect
Silver Bromide ---------- **Severe Effect**
Silver Chloride ---------- **Severe Effect**
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- **Severe Effect**
Soap Solutions ---------- No Effect
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- **Severe Effect**
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- **Severe Effect**
Sodium Bromide ---------- Minor Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- **Severe Effect**
Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chromate ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- Minor Effect
Sodium Fluoride ---------- Minor Effect
Sodium Fluoride, 5% ---------- Minor Effect

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Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) ---------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) ---------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Hyposulfate ---------- **Severe Effect**
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- Minor Effect
Sodium Nitrate ---------- Minor Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Perborate ---------- **Severe Effect**
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- **Severe Effect**
Sodium Resinate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- Minor Effect
Sodium Sulfite, 10% Solution @ 150 F ---------- Minor Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- Minor Effect
Sodium Thiosulfate ---------- **Severe Effect**
Sorghum ---------- No Effect
Soy Sauce ---------- **Severe Effect**
SP-90X ---------- **Severe Effect**
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**

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Stannic Fluoborate ---------- **Severe Effect**
Stanous Chloride, 15% ---------- **Severe Effect**
Starch ---------- **Severe Effect**
Steam, Above 350 F ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- **Severe Effect**
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sulfate Black Liquor ---------- Minor Effect
Sulfate Green Liquor ---------- Minor Effect
Sulfite Liquors ---------- **Severe Effect**
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid (Aerated) No Velocity ---------- Minor Effect
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Fuming) ---------- Minor Effect
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- Minor Effect
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------- Minor Effect
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Tall Oil (Liquid Rosin) ---------- Minor Effect
Tannic Acid ---------- Minor Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- **Severe Effect**

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Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Thionyl Chloride ---------- **Severe Effect**
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Toothpaste ---------- **Severe Effect**
Transformer Oil ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributyl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- Minor Effect
Trichloroethylene ---------- **Severe Effect**
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Trimethylene Glycol ---------- No Effect
Triphenyl Phosphsite ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- **Severe Effect**
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect

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Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Uric Acid ---------- **Severe Effect**
Urine ---------- No Effect
Varnish ---------- Minor Effect
Vegetable Juices ---------- **Severe Effect**
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- Minor Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- **Severe Effect**
Vinyl Acetate ---------- Minor Effect
Vinyl Chloride ---------- Minor Effect
Water ---------- **Severe Effect**
Water, Acid Mine ---------- **Severe Effect**
Water, Brine, Process, Beverage ---------- **Severe Effect**
Water, Distilled ---------- **Severe Effect**
Water, Fresh ---------- **Severe Effect**
Water, Salt ---------- **Severe Effect**
Whiskey ---------- **Severe Effect**
White Sulfate Liquor ---------- Minor Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Wort, Distillery ---------- Minor Effect
Xylene ---------- Minor Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Chloride, 5% Solution ---------- **Severe Effect**
Zinc Hydrosulfite ---------- **Severe Effect**
Zinc Sulfate ---------- **Severe Effect**
Zinc Sulfate, 25% Solution (Boiling) --------- **Severe Effect**
Zinc Sulfate, 5% Solution ---------- **Severe Effect**
Zinc Sulfate, Saturated Solution ---------- **Severe Effect**

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Carbon Tetrachloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Moderate Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
MONEL	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**

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PVC ---------- Moderate Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- Minor Effect

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Carbon Tetrachloride-Aqueous Solution 5%-10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Carbon Tetrachloride-Pure

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Carbonate of Soda

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Carbonated Beverages

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect

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Carbonated Water

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Carbonic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Minor Effect
SILICONE	No Effect

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TEFLON ---------- No Effect
VITON ---------- No Effect

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Casein

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Casing Head Gas

Material Compatibility

MATERIAL	EFFECT
VITON	No Effect

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CAST BRONZE

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	**Severe Effect**
Acetate Solvents	No Effect
Acetic Acid, 5%	Moderate Effect
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	Moderate Effect
Acetone	No Effect
Acetyl Chloride	**Severe Effect**
Acetylene (Ethyne)	Minor Effect
Acrylonitrile	No Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	Minor Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Chloride	Moderate Effect
Aluminum Chloride, 20%	**Severe Effect**
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 100%	Moderate Effect
Aluminum Sulfate	Moderate Effect
Amines	Minor Effect
Ammonia, Anhydrous, Liquid	**Severe Effect**
Ammonia, Liquids	**Severe Effect**
Ammonia, Nitrate	**Severe Effect**
Ammonium Carbonate	Minor Effect
Ammonium Chloride	**Severe Effect**
Ammonium Hydroxide	**Severe Effect**

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Ammonium Nitrate ---------- **Severe Effect**
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- Moderate Effect
Ammonium Phosphate, Monobasic ---------- **Severe Effect**
Ammonium Phosphate, Tri-Basic ---------- Moderate Effect
Ammonium Sulfate ---------- Minor Effect
Amyl Acetate ---------- Moderate Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Aniline ---------- Moderate Effect
Aniline Oil ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- No Effect
Arsenic Acid ---------- **Severe Effect**
Asphalt ---------- No Effect
Barium Carbonate ---------- Minor Effect
Barium Chloride ---------- Minor Effect
Barium Cyanide ---------- Moderate Effect
Barium Hydroxide ---------- Minor Effect
Barium Nitrate ---------- **Severe Effect**
Barium Sulfate ---------- Moderate Effect
Barium Sulfide ---------- Moderate Effect
Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- Minor Effect
Benzoic Acid ---------- Minor Effect
Benzol ---------- Minor Effect
Bone Oil ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- Minor Effect
Brewery Slop ---------- No Effect
Bromine, Liquid ---------- Moderate Effect
Butadiene ---------- Moderate Effect
Butane ---------- No Effect
Butanol ---------- No Effect

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Butter ---------- **Severe Effect**
Buttermilk ---------- **Severe Effect**
Butyl Acetate ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- Moderate Effect
Calcium Bisulfate ---------- **Severe Effect**
Calcium Bisulfide ---------- Moderate Effect
Calcium Bisulfite ---------- Moderate Effect
Calcium Carbonate ---------- Moderate Effect
Calcium Chlorate ---------- Moderate Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide ---------- Minor Effect
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Sulfate ---------- Minor Effect
Calgon ---------- Moderate Effect
Cane Juice ---------- Minor Effect
Carbon Bisulfide ---------- Moderate Effect
Carbon Dioxide ---------- Moderate Effect
Carbon Disulfide ---------- Moderate Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbonated Water ---------- Minor Effect
Carbonic Acid ---------- Minor Effect
Castor Oil ---------- No Effect
Catsup ---------- Moderate Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorinated Glue ---------- Moderate Effect
Chlorine Water ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- No Effect
Chlorobenzene ---------- Minor Effect
Chloroform ---------- Minor Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorox ---------- No Effect
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Cider (Apple Juice) ---------- No Effect

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Citric Acid ---------- **Severe Effect**
Citric Oils ---------- **Severe Effect**
Coconut Oil ---------- No Effect
Coffee ---------- Minor Effect
Copper (Misc),Copper (Electroless) 140 F ----- **Severe Effect**
Copper Chloride ---------- **Severe Effect**
Copper Cyanide ---------- Moderate Effect
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate ---------- **Severe Effect**
Copper Sulfate ---------- Moderate Effect
Copper Sulfate, 5% ---------- **Severe Effect**
Corn Oil ---------- Minor Effect
Cottonseed Oil ---------- Minor Effect
Cream ---------- Moderate Effect
Cresol ---------- **Severe Effect**
Cyclohexane ---------- No Effect
Detergent Solutions ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Glycol ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dyes ---------- Moderate Effect
Epsom Salts ---------- Minor Effect
Ethane ---------- No Effect
Ethers ---------- Minor Effect
Ethyl Acetate ---------- Minor Effect
Ethyl Chloride ---------- Minor Effect
Ethylene Chloride ---------- No Effect
Ethylene Dichloride ---------- Moderate Effect
Ethylene Glycol ---------- Minor Effect
Ethylene Oxide ---------- No Effect
Fatty Acids ---------- Moderate Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- **Severe Effect**

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Ferrous Chloride ---------- Moderate Effect
Ferrous Sulfate ---------- Moderate Effect
Fluorine ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formic Acid ---------- Moderate Effect
Freon 11 ---------- Minor Effect
Freon 113 ---------- Minor Effect
Freon 12 ---------- Minor Effect
Freon 22 ---------- Minor Effect
Freon T.F. ---------- Minor Effect
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- Minor Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Gallic Acid ---------- No Effect
Gelatin ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Gold Monocyanide ---------- No Effect
Gold Plating, Cyanide 150 F ---------- Moderate Effect
Grape Juice ---------- Minor Effect
Grease ---------- Minor Effect
Heptane ---------- No Effect
Hexane ---------- Minor Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- Minor Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**

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Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- No Effect
Hydrogen Gas ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- **Severe Effect**
Hydrogen Sulfide (Dry) ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Ink ---------- Moderate Effect
Iodine ---------- **Severe Effect**
Iodoform ---------- Moderate Effect
Isopropyl Ether ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid ---------- **Severe Effect**
Lard ---------- No Effect
Latex ---------- No Effect
Lead Acetate ---------- Moderate Effect
Ligroin ---------- No Effect
Lime ---------- No Effect
Linseed Oil ---------- No Effect
Lubricants ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydorxide ---------- Moderate Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- Moderate Effect
Malic Acid ---------- **Severe Effect**
Mash ---------- No Effect
Mayonnaise ---------- **Severe Effect**
Melamine ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercuric Cyanide ---------- **Severe Effect**
Mercury ---------- **Severe Effect**
Methyl Acetate ---------- No Effect

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Methyl Acetone ---------- No Effect
Methyl Alcohol, 10% ---------- Moderate Effect
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methylamine ---------- **Severe Effect**
Methylene Chloride ---------- No Effect
Milk ---------- Moderate Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
Mustard ---------- Minor Effect
Naptha ---------- Minor Effect
Napthalene ---------- Moderate Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Plating, Fluoborate 100-170 F --------- **Severe Effect**
Nickel Sulfate ---------- Moderate Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Oleic Acid ---------- Minor Effect
Oleum ---------- Moderate Effect
Olive Oil ---------- Minor Effect
Oxalic Acid ---------- Minor Effect
Palm Oil ---------- Minor Effect
Paraffins (Paraffin Oil) ---------- No Effect
Peanut Oil ---------- No Effect
Penthane ---------- No Effect
Peppermint Oil ---------- No Effect
Perchloroethylene ---------- Moderate Effect
Petrolatum ---------- Minor Effect
Phenol (Carbolic Acid) ---------- Minor Effect
Phenol, 10% ---------- Moderate Effect
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Anhydride (Molten) ---------- **Severe Effect**

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Phthalic Anhydride ---------- Minor Effect
Picric Acid ---------- **Severe Effect**
Pine Oil ---------- **Severe Effect**
Potash ---------- Moderate Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bromide ---------- Moderate Effect
Potassium Carbonate ---------- Moderate Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Moderate Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- **Severe Effect**
Potassium Dichromate ---------- Moderate Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide, 50% ---------- **Severe Effect**
Potassium Nitrate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfide ---------- Minor Effect
Propane (Liquefied) ---------- No Effect
Propylene Glycol ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Rape-Seed Oil ---------- No Effect
Rosin ---------- No Effect
Rust Inhibitors ---------- No Effect
Salad Dressing ---------- Minor Effect
Sea Water ---------- Moderate Effect
Sesame Seed Oil ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicone ---------- No Effect
Silver Nitrate ---------- **Severe Effect**
Soaps ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Aluminate ---------- Minor Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Moderate Effect

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Sodium Bisulfite ---------- Moderate Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect
Sodium Chromate ---------- Minor Effect
Sodium Cyanide ---------- **Severe Effect**
Sodium Fluoride ---------- Moderate Effect
Sodium Hydrosulfite ---------- Moderate Effect
Sodium Hydroxide ---------- Moderate Effect
Sodium Hydroxide, 20% ---------- Moderate Effect
Sodium Hydroxide, 50% ---------- Moderate Effect
Sodium Hydroxide, 80% ---------- Moderate Effect
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- **Severe Effect**
Sodium Hyposulfate ---------- **Severe Effect**
Sodium Metaphosphate ---------- Moderate Effect
Sodium Metasilicate ---------- Minor Effect
Sodium Nitrate ---------- Minor Effect
Sodium Perborate ---------- Moderate Effect
Sodium Peroxide ---------- Moderate Effect
Sodium Polyphosphate ---------- Moderate Effect
Sodium Silicate ---------- Moderate Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfite ---------- Moderate Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- Minor Effect
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Starch ---------- Minor Effect
Stearic Acid ---------- Moderate Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect

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Sulfate Liquors ---------- Moderate Effect
Sulfur Chloride ---------- Moderate Effect
Sulfur Dioxide ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Syrup ---------- **Severe Effect**
Tannic Acid ---------- Minor Effect
Tanning Liquors ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrahydrofuran ---------- **Severe Effect**
Toluene ---------- No Effect
Tomato Pulp & Juice ---------- Moderate Effect
Trichloroethane ---------- Moderate Effect
Trichloroethylene ---------- Minor Effect
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- No Effect
Turbine Oil ---------- No Effect
Turpentine ---------- Minor Effect
Urine ---------- Moderate Effect
Varnish ---------- No Effect
Vegetable Juices ---------- Moderate Effect
Vinegar ---------- Minor Effect
Water Acid, Mine ---------- Moderate Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- Minor Effect
Weed Killers ---------- Moderate Effect
Whiskey ---------- Minor Effect
White Liquor (Pulp Mill) ---------- **Severe Effect**
White Water (Paper Mill) ---------- No Effect
Xylene ---------- No Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Hydrosulfite ---------- **Severe Effect**

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Zinc Sulfate ---------- Minor Effect

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CAST IRON (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
1-Chloronaphthalene	Minor Effect
1-Nitropropane	No Effect
Acetaldehyde	Minor Effect
Acetamide	**Severe Effect**
Acetate Solvents	**Severe Effect**
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 5%	**Severe Effect**
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	**Severe Effect**
Acetyl Chloride	Minor Effect
Acetyl Salicylic Acid	**Severe Effect**
Acetylene (Ethyne)	No Effect
Acetylene Tetrabromide	**Severe Effect**
Acrolein (Acrylaldehyde)	Minor Effect
Acrylonitrile	No Effect

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Adipic Acid ---------- No Effect
Aero Lubriplate ---------- No Effect
Aerosafe 2300 ---------- No Effect
Aerosafe 2300W ---------- No Effect
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- Moderate Effect
Alcohol, Butyl ---------- Moderate Effect
Alcohol, Diacetone ---------- No Effect
Alcohol, Ethyl ---------- No Effect
Alcohol, Isopropyl ---------- Moderate Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- Minor Effect
Allyl Alcohol ---------- No Effect
Allyl Bromide ---------- No Effect
Allyl Chloride ---------- Moderate Effect
Alum ---------- **Severe Effect**
Aluminum Acetate ---------- Moderate Effect
Aluminum Chloride ---------- Moderate Effect
Aluminum Chloride, 20% ---------- **Severe Effect**
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- Minor Effect
Aluminum Potassium Sulfate ---------- **Severe Effect**
Aluminum Potassium Sulfate (Alum), 10% ------- **Severe Effect**
Aluminum Potassium Sulfate, 2% Solution ------ **Severe Effect**
Aluminum Sulfate ---------- **Severe Effect**
AMERSEP MP-7 ---------- **Severe Effect**
Amines ---------- No Effect
Ammonia Liquors ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- No Effect

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Ammonia, Nitrate ---------- No Effect
Ammonium Acetate ---------- Minor Effect
Ammonium Bicarbonate ---------- Minor Effect
Ammonium Bifluoride, 10% ---------- **Severe Effect**
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- **Severe Effect**
Ammonium Chloride, 1% ---------- **Severe Effect**
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Dichromate ---------- No Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Metaphosphate ---------- Minor Effect
Ammonium Monophosphate ---------- **Severe Effect**
Ammonium Nitrate ---------- Moderate Effect
Ammonium Nitrite ---------- Minor Effect
Ammonium Oxalate, 5% Sol. ---------- **Severe Effect**
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- **Severe Effect**
Ammonium Phosphate, Di-Basic ---------- **Severe Effect**
Ammonium Phosphate, Monobasic ---------- **Severe Effect**
Ammonium Phosphate, Tri-Basic ---------- **Severe Effect**
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- Minor Effect
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- **Severe Effect**
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Plus 5% Sulfuric Acid ------ **Severe Effect**
Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Ammonium Thiocyanate ---------- **Severe Effect**
Ammonium Thiosulfate ---------- **Severe Effect**

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Ammonium Triphosphate ---------- **Severe Effect**
Amyl Acetate ---------- Minor Effect
Amyl Alcohol ---------- Minor Effect
Amyl Chloride ---------- No Effect
Amyl Phenol ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- Minor Effect
Aniline Dyes ---------- Moderate Effect
Aniline Hydrochloride ---------- **Severe Effect**
Aniline Oil ---------- No Effect
Animal Fats & Oils ---------- No Effect
Anisole ---------- Minor Effect
Anthraquinone ---------- Minor Effect
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Pentachloride ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- Minor Effect
Aroclor ---------- Minor Effect
Aromatic Hydrocarbons ---------- Minor Effect
Aromatic Solvents ---------- Minor Effect
Arsenic Acid ---------- **Severe Effect**
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- **Severe Effect**
Ascorbic Acid ---------- **Severe Effect**
Asphalt ---------- No Effect
Asphalt Topping ---------- No Effect
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- No Effect
ASTM, Red Motor Fuel C ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect

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Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Barbeque Sauce ---------- **Severe Effect**
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- Minor Effect
Barium Chloride Dihydrate ---------- Minor Effect
Barium Chloride, 5% ---------- Minor Effect
Barium Cyanide ---------- Minor Effect
Barium Hydroxide ---------- **Severe Effect**
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfate Aqueous Solution (Hot) -------- Minor Effect
Barium Sulfide ---------- **Severe Effect**
Beef Extract ---------- **Severe Effect**
Beef Extract ---------- **Severe Effect**
Beer ---------- **Severe Effect**
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- **Severe Effect**
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- Minor Effect
Benzaldehyde ---------- No Effect
Benzene ---------- Minor Effect
Benzene Sulfonic Acid ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- **Severe Effect**
Benzol ---------- Minor Effect
Benzoyl Chloride ---------- No Effect
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- No Effect
Benzyl Dichloride ---------- Minor Effect

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Biphenyl ---------- No Effect
Black Sulfate Liquor ---------- Minor Effect
Borax ---------- Minor Effect
Bordeaux Mixture ---------- **Severe Effect**
Boric Acid ---------- **Severe Effect**
Brake Fluid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Brewery Shop ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- **Severe Effect**
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- Moderate Effect
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- Minor Effect
Bromochloromethane ---------- Minor Effect
Bromotoluene ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- **Severe Effect**
Buttermilk ---------- **Severe Effect**
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- Minor Effect
Butyl Alcohol ---------- Minor Effect
Butyl Amine ---------- No Effect
Butyl Benzoate ---------- Minor Effect
Butyl Butyrate ---------- No Effect
Butyl Chloride ---------- Minor Effect
Butyl Ether ---------- Minor Effect
Butyl Stearate ---------- Minor Effect

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Butylene ---------- No Effect
Butyraldehyde ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Butyric Anhydride ---------- No Effect
Calcium Acetate Hydrate ---------- Moderate Effect
Calcium Bisulfate ---------- **Severe Effect**
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- Minor Effect
Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- No Effect
Calcium Cyanide ---------- No Effect
Calcium Hydroxide ---------- **Severe Effect**
Calcium Hydroxide, 10% (Boiling) ---------- Minor Effect
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Nitrate ---------- **Severe Effect**
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- Minor Effect
Calcium Sulfate ---------- Minor Effect
Calcium Sulfate - Saturated ---------- Minor Effect
Calcium Sulfide ---------- Minor Effect
Calcium Sulfite ---------- Minor Effect
Calgon ---------- **Severe Effect**
Caliche Liquors ---------- No Effect
Camphor ---------- Minor Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Capryl Alcohol ---------- No Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- **Severe Effect**
Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- No Effect

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Carbon Tetrachloride ---------- Moderate Effect
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Carbonated Water ---------- **Severe Effect**
Carbonic Acid ---------- **Severe Effect**
Castor Oil ---------- Minor Effect
Catsup ---------- **Severe Effect**
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
Cellulose Acetate ---------- Minor Effect
Cellulube Hydraulic Fluids ---------- No Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- **Severe Effect**
Chlorinated Lime ---------- **Severe Effect**
Chlorinated Lime, 35% (Bleach) ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - Dry ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine Water ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobromomethane ---------- Minor Effect
Chlorobutadiene ---------- Minor Effect
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- Minor Effect
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorothene ---------- **Severe Effect**

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Chlorotoluene ---------- Minor Effect
Chlorotrifluoroethylene ---------- Minor Effect
Chlorox ---------- **Severe Effect**
Chocolate Syrup ---------- **Severe Effect**
Chrome Alum ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromium Sulfate (Basic) ---------- **Severe Effect**
Cider (Apple Juice) ---------- **Severe Effect**
Cinnamon Oil ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- **Severe Effect**
Citric Acid, 15% Solution ---------- **Severe Effect**
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- **Severe Effect**
Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- **Severe Effect**
Clove Oil ---------- **Severe Effect**
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- **Severe Effect**
Coffee ---------- Moderate Effect
Copper Acetate ---------- No Effect
Copper Acetate, Saturated Solution ---------- **Severe Effect**
Copper Chloride ---------- **Severe Effect**
Copper Cyanide ---------- **Severe Effect**
Copper Fluoborate ---------- **Severe Effect**
Copper Fluoborate ---------- **Severe Effect**
Copper Nitrate Hexahydrate ---------- **Severe Effect**
Copper Nitrate, 1% & 5% ---------- **Severe Effect**
Copper Nitrate, 50% Aqueous Solution (Hot) --- **Severe Effect**
Copper Sulfate ---------- **Severe Effect**
Copper Sulfate, 10% ---------- **Severe Effect**
Copper Sulfate, 5% ---------- **Severe Effect**
Copper Sulphate, Saturated Solution (Boiling) **Severe Effect**

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Core Oil ---------- No Effect
Corn Oil ---------- Moderate Effect
Cottonseed Oil ---------- Moderate Effect
Cream ---------- **Severe Effect**
Creosote, Coal-Tar ---------- Minor Effect
Cresylic Acid ---------- Moderate Effect
Crotonaldehyde ---------- No Effect
Cumeme ---------- Minor Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
Cyclopentane ---------- Minor Effect
D.D.T. ---------- **Severe Effect**
Denatured Alcohol ---------- Minor Effect
Developing Fluids & Solutions ---------- **Severe Effect**
Dextrose ---------- **Severe Effect**
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- Minor Effect
Dibutyl Amine ---------- No Effect
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichlorobutane ---------- Minor Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Diemethyl Formamide ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diester Synthetic Oils ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- Minor Effect

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Diethyl Carbonate ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisooctyl Adipate ---------- No Effect
Diisopropyl Ketone ---------- No Effect
Dimethyl Ether ---------- Minor Effect
Dimethyl Sulfate ---------- No Effect
Dimethyl Sulfide ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dioxane ---------- No Effect
Dipentene ---------- No Effect
Diphenyl ---------- Minor Effect
Diphenyl Oxide ---------- No Effect
Dipsersing Oil #10 ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dowtherm (Biphenyl & Phenyl Ether) ---------- Minor Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- **Severe Effect**
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- Minor Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect

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Ethyl Acetate ---------- Moderate Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- Minor Effect
Ethyl Amine ---------- Minor Effect
Ethyl Benzene ---------- Minor Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Cellulose ---------- No Effect
Ethyl Chloride ---------- Minor Effect
Ethyl Chloride ---------- Moderate Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Mercaptan ---------- No Effect
Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- Minor Effect
Ethylene ---------- No Effect
Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- Minor Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- **Severe Effect**
Ethylene Dichloride ---------- Minor Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monobutyl ---------- No Effect
Ethylene Glycol Monoethyl ---------- No Effect
Ethylene Glycol Monomethyl ---------- Minor Effect
Ethylene Glycol Monomethyl Ether ---------- Minor Effect
Ethylene Oxide ---------- **Severe Effect**
Ethylene Trichloride ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- Minor Effect

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Fatty Acids ---------- **Severe Effect**
Ferric Chloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- **Severe Effect**
Ferric Sulphate 1% to 5% ---------- **Severe Effect**
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- Moderate Effect
Ferrous Sulfate (Copperas) ---------- **Severe Effect**
Ferrous Sulfate, 10% Solution ---------- **Severe Effect**
Fish Liver Oils ---------- **Severe Effect**
Fluboric Acid ---------- **Severe Effect**
Fluoboric Acid ---------- **Severe Effect**
Fluorboric Acid ---------- **Severe Effect**
Fluoride (Dry) ---------- **Severe Effect**
Fluorine ---------- **Severe Effect**
Fluorolube ---------- No Effect
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- Moderate Effect
Formaldehyde (Hot) ---------- **Severe Effect**
Formaldehyde (Hot) ---------- **Severe Effect**
Formamide ---------- Minor Effect
Formic Acid ---------- **Severe Effect**
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect

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Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- **Severe Effect**
Fuel Oil ---------- Moderate Effect
Fumaric Acid ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- Minor Effect
Furfuraldehyde ---------- **Severe Effect**
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- **Severe Effect**
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Gasoline (Sour) ---------- Minor Effect
Gasoline (Unleaded) ---------- No Effect
Gelatin ---------- No Effect
Ginger Oil ---------- **Severe Effect**
Gluconic Acid ---------- Moderate Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glutamic Acid ---------- No Effect
Glycerine or Glycerol ---------- Minor Effect
Glycols ---------- Minor Effect

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Gold Monocyanide ---------- **Severe Effect**
Grape Juice ---------- **Severe Effect**
Grapefruit Oil ---------- **Severe Effect**
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- **Severe Effect**
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexanal ---------- Minor Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- **Severe Effect**
Hydrazine (Diamine) ---------- **Severe Effect**
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- **Severe Effect**
Hydrochloric Acid (Dilute) ---------- Moderate Effect
Hydrochloric Acid 20% ---------- Moderate Effect
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**

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Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid, (Conc) ---------- **Severe Effect**
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Fluoride ---------- No Effect
Hydrogen Gas ---------- Minor Effect
Hydrogen Gas (Cold) ---------- Minor Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- Minor Effect
Hydrogen Peroxide, 30% ---------- **Severe Effect**
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide (Dry) ---------- Minor Effect
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- Minor Effect
Hydrogen Sulfide Wet, Hot ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hydroquinone ---------- Minor Effect
Hydroxyacetic Acid, 10% ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Illuminating Gas ---------- No Effect
Ink ---------- **Severe Effect**
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodoform ---------- Moderate Effect
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isobutyl Acetate ---------- No Effect
Isobutyl Chloride ---------- Minor Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect

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Isophorone	Minor Effect
Isopropanol	No Effect
Isopropyl Acetate	Minor Effect
Isopropyl Alcohol	No Effect
Isopropyl Amine	No Effect
Isopropyl Chloride	No Effect
Isopropyl Ether	No Effect
Jet Fuel (JP3,JP4,JP5)	No Effect
Jet Fuels (JP1 to JP6)	No Effect
JP-1	No Effect
JP-2	No Effect
JP-3 (Mil-J-5624)	No Effect
JP-4 (Mil-J-5624)	No Effect
JP-5 (Mil-J-5624)	No Effect
JP-6 (Mil-J-25656)	No Effect
JP-X (Mil-F-25604)	No Effect

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CAST IRON (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kerosene	No Effect
Ketones	No Effect
Keystone #87HX-Grease	No Effect
Lacquer Solvents	Minor Effect
Lacquers	**Severe Effect**
Lactic Acid	**Severe Effect**
Lactic Acid	**Severe Effect**
Lactic Acid, 5% Solution	**Severe Effect**
Lactol	No Effect
Lactol	No Effect
Lard	No Effect
Lard Oil	No Effect
Lard Oil (Cold)	No Effect
Lard Oil (Hot)	No Effect
Lauryl Alcohol	No Effect
Lead Acetate	No Effect
Lead Nitrate	Minor Effect
Light Grease	No Effect
Ligroin	No Effect
Lime	**Severe Effect**
Lime Bleach	**Severe Effect**
Lime Slurries	**Severe Effect**
Lime Sulfur	Minor Effect
Lindol	No Effect
Linoleic Acid	**Severe Effect**
Linseed Oil	No Effect
Lithium Bromide	No Effect
Lithium Bromide	No Effect
Lithium Hydroxide	No Effect
Lubricating Oil Di-Ester	No Effect
Lubricating Oil Petroleum Base	No Effect
Lubricating Oil SAE10,20,30,40,50	No Effect

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Lubricating Oils ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- **Severe Effect**
Magnesium Hydorxide ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- Minor Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- Moderate Effect
Maleic Acid ---------- Minor Effect
Maleic Anhydride ---------- Minor Effect
Malt Beverages ---------- **Severe Effect**
Manganese Chloride ---------- Minor Effect
Mayonnaise ---------- **Severe Effect**
Mercaptan ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- **Severe Effect**
Mercuric Cyanide ---------- Minor Effect
Mercurous Nitrate ---------- Minor Effect
Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetoacetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Amine ---------- Minor Effect
Methyl Amyl Acetate ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Butyrate ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**

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Methyl Cyanide ---------- Minor Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- Minor Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methyl Methacrylate ---------- Minor Effect
Methyl Salicylate ---------- No Effect
Methylamine ---------- Minor Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- **Severe Effect**
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- No Effect
Mixed Acids ---------- **Severe Effect**
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- Minor Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochloracetic Acid ---------- **Severe Effect**
Monochlorobenzene ---------- No Effect
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethyl Hydrazine ---------- No Effect
Monomethylaniline ---------- Minor Effect
Muriatic Acid ---------- **Severe Effect**
Mustard ---------- **Severe Effect**
N,N-Dimethylaniline ---------- Minor Effect
n-Butyl Acetate ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect

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n-Hexane ---------- No Effect
N-Pentane ---------- Minor Effect
n-Propyl Nitrate ---------- **Severe Effect**
Naphtha Coal Tar (Benzol) ---------- Minor Effect
Naphtha, Petroleum ---------- Minor Effect
Naphthalene ---------- No Effect
Naphthoic Acid ---------- Minor Effect
Naptha ---------- Minor Effect
Naptha-Coal Tar (Benzol) ---------- Minor Effect
Napthalene ---------- Minor Effect
Napthenic Acid ---------- Minor Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Neosol ---------- Minor Effect
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- Minor Effect
Nickel Sulfate ---------- **Severe Effect**
Nicotine ---------- Minor Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 25% ---------- **Severe Effect**
Nitric Acid, 35% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 70% ---------- **Severe Effect**
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect

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Nitroethane ---------- No Effect
Nitrogen Tetroxide ---------- Minor Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- **Severe Effect**
Nitrous Gases ---------- Minor Effect
Nitrous Oxide ---------- Minor Effect
O-Chloronaphthalene ---------- Minor Effect
o-Chlorophenol ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect
o-Dichlorobenzene ---------- Minor Effect
o-Dichlorobenzene ---------- No Effect
Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect
Oleic Acid ---------- Moderate Effect
Oleum ---------- **Severe Effect**
Oleum Spirits ---------- **Severe Effect**
Olive Oil ---------- No Effect
Oxalic Acid ---------- **Severe Effect**
Oxalic Acid, 10% Solution ---------- **Severe Effect**
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- **Severe Effect**
Oxygen, Cold ---------- Minor Effect
Ozone ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- **Severe Effect**
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Paraffins (Paraffin Oil) ---------- Minor Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Pentachloroethane ---------- No Effect
Pentachlorophenol ---------- No Effect

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Penthane ---------- Minor Effect
Perchloric Acid ---------- **Severe Effect**
Perchloroethylene ---------- Minor Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petrolatum ---------- Moderate Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- Minor Effect
Phenethyl Alcohol ---------- No Effect
Phenol ---------- No Effect
Phenol (Carbolic Acid) ---------- **Severe Effect**
Phenol Sulfonic Acid ---------- Minor Effect
Phenol, 10% ---------- Minor Effect
Phenyl Hydrazine ---------- **Severe Effect**
Phosphoric Acid (Aerated) ---------- **Severe Effect**
Phosphoric Acid (Conc) ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid Air Free ---------- **Severe Effect**
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 10% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 20% ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Phosphorous ---------- Minor Effect
Phosphorus Oxychloride ---------- **Severe Effect**
Phosphorus Trichloride ---------- Minor Effect
Photographic Developers ---------- **Severe Effect**
Photographic Solutions ---------- **Severe Effect**
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- Moderate Effect
Phthalic Anhydride (Pure) + Maleic Anhydride - No Effect
Picric Acid ---------- **Severe Effect**
Picric Acid, H2O Solution ---------- **Severe Effect**
Pine Oil ---------- Moderate Effect
Pneumatic Service ---------- No Effect

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Polyvinyl Acetate Emulsion ---------- Minor Effect
Potash ---------- Minor Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- **Severe Effect**
Potassium Bisulfate ---------- **Severe Effect**
Potassium Bromide ---------- **Severe Effect**
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- Minor Effect
Potassium Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Minor Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanine ---------- Minor Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% ---------- Moderate Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 70% Solution (Hot) ------ **Severe Effect**
Potassium Hypochlorite ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- Minor Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- Minor Effect
Potassium Oxalate ---------- No Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Peroxide ---------- Minor Effect
Potassium Phosphate ---------- **Severe Effect**
Potassium Silicate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Potassium Sulfite ---------- No Effect

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Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propionaldehyde ---------- No Effect
Propionic Acid ---------- No Effect
Propyl Acetate ---------- No Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- Minor Effect
Propylene Oxide ---------- Minor Effect
Pydraul ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- **Severe Effect**
Pyroligneous Acid ---------- **Severe Effect**
Quaternary Ammonium Salts ---------- **Severe Effect**
Rape-Seed Oil ---------- No Effect
Resins and Rosins ---------- **Severe Effect**
Rosin ---------- Minor Effect
Rust Inhibitors ---------- **Severe Effect**
Sal Ammoniac ---------- **Severe Effect**
Sal Soda ---------- No Effect
Salad Dressing ---------- **Severe Effect**
Salicylic Acid ---------- **Severe Effect**
Salt Water ---------- **Severe Effect**
Santo Safe 300 ---------- No Effect
Sea Water ---------- **Severe Effect**
Sesame Seed Oil ---------- No Effect
Sewage ---------- **Severe Effect**
Shellac ---------- No Effect
Shellac (Bleached) ---------- Minor Effect

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Shellac (Orange) ---------- Moderate Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- Minor Effect
Silver Bromide ---------- **Severe Effect**
Silver Chloride ---------- **Severe Effect**
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- **Severe Effect**
Soap Solutions ---------- No Effect
Soaps ---------- **Severe Effect**
Soda Ash ---------- Minor Effect
Sodium Acetate ---------- Moderate Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- Moderate Effect
Sodium Bichromate ---------- Minor Effect
Sodium Bisulfate ---------- **Severe Effect**
Sodium Bisulfite ---------- **Severe Effect**
Sodium Borate ---------- Moderate Effect
Sodium Bromide ---------- Moderate Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- **Severe Effect**
Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chromate ---------- Minor Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- Minor Effect
Sodium Ferrocyanide ---------- Minor Effect
Sodium Fluoride ---------- **Severe Effect**
Sodium Fluoride, 5% ---------- Minor Effect
Sodium Hexametaphosphate ---------- Minor Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) --------- Minor Effect

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Sodium Hydroxide, 50% ---------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- **Severe Effect**
Sodium Hydroxide, 80% ---------- Moderate Effect
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- **Severe Effect**
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Hyposulfate ---------- **Severe Effect**
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate ---------- Moderate Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- Minor Effect
Sodium Nitrate ---------- Minor Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Nitrite ---------- No Effect
Sodium Perborate ---------- **Severe Effect**
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- **Severe Effect**
Sodium Resinate ---------- Minor Effect
Sodium Salicylate ---------- Minor Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- Minor Effect
Sodium Sulfite ---------- **Severe Effect**
Sodium Sulfite, 10% Solution @ 150 F --------- Minor Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- Minor Effect
Sodium Thiosulfate ---------- **Severe Effect**
Sorghum ---------- No Effect
Sorgum ---------- No Effect

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Soy Sauce ---------- **Severe Effect**
Soybean Oil ---------- No Effect
SP-90X ---------- **Severe Effect**
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**
Stannic Fluoborate ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Stanous Chloride, 15% ---------- **Severe Effect**
Starch ---------- Moderate Effect
Steam, Above 350 F ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- **Severe Effect**
Steric Acid ---------- Moderate Effect
Stoddard Solvent ---------- Minor Effect
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- Minor Effect
Sulfamic Acid ---------- **Severe Effect**
Sulfate Black Liquor ---------- Minor Effect
Sulfate Green Liquor ---------- Minor Effect
Sulfite Liquors ---------- **Severe Effect**
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid (Aerated) No Velocity ---------- Minor Effect
Sulfuric Acid (Air Free) No Velocity --------- **Severe Effect**
Sulfuric Acid (Conc) ---------- Minor Effect
Sulfuric Acid (Fuming) ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfuric Acid, 25% ---------- **Severe Effect**
Sulfuric Acid, 50% ---------- **Severe Effect**
Sulfuric Acid, 60% ---------- **Severe Effect**

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Sulfuric Acid, 75% ---------- Moderate Effect
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfuric Acid, 95% ---------- Minor Effect
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- Minor Effect
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------- Minor Effect
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Tall Oil (Liquid Rosin) ---------- Minor Effect
Tannic Acid ---------- Moderate Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tarpenes ---------- **Severe Effect**
Tartaric Acid ---------- **Severe Effect**
Terpineol ---------- No Effect
Tertiary Butyl Catechol ---------- Minor Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetraethyl Lead ---------- No Effect
Tetrahydrofuran ---------- **Severe Effect**
Tetrahydronaphthalene ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Thionyl Chloride ---------- **Severe Effect**
Titanium Tetrachloride ---------- No Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- Moderate Effect

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Toothpaste ---------- **Severe Effect**
Transformer Oil ---------- No Effect
Transmission Fluid ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributyl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- Moderate Effect
Trichloroethylene ---------- **Severe Effect**
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Trimethylene Glycol ---------- No Effect
Triphenyl Phosphsite ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- **Severe Effect**
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Uric Acid ---------- **Severe Effect**
Urine ---------- Minor Effect
Varnish ---------- Minor Effect
Vegetable Juices ---------- **Severe Effect**
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- Minor Effect
Versilube ---------- No Effect

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Versilube F-50 ---------- No Effect
Vinegar ---------- **Severe Effect**
Vinyl Acetate ---------- No Effect
Vinyl Chloride ---------- Minor Effect
Water ---------- **Severe Effect**
Water Acid, Mine ---------- Moderate Effect
Water, Acid Mine ---------- **Severe Effect**
Water, Brine, Process, Beverage ---------- **Severe Effect**
Water, Distilled ---------- **Severe Effect**
Water, Fresh ---------- **Severe Effect**
Water, Salt ---------- **Severe Effect**
Whiskey ---------- **Severe Effect**
White Liquor (Pulp Mill) ---------- Moderate Effect
White Sulfate Liquor ---------- Moderate Effect
Wines ---------- **Severe Effect**
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Wort, Distillery ---------- Minor Effect
Xylene ---------- Minor Effect
Xylidines ---------- Minor Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- **Severe Effect**
Zinc Chloride, 5% Solution ---------- **Severe Effect**
Zinc Hydrosulfite ---------- **Severe Effect**
Zinc Sulfate ---------- **Severe Effect**
Zinc Sulfate, 25% Solution (Boiling) ---------- **Severe Effect**
Zinc Sulfate, 5% Solution ---------- **Severe Effect**
Zinc Sulfate, Saturated Solution ---------- **Severe Effect**

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Castor Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICONE	No Effect

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TEFLON ---------- No Effect
VITON ---------- No Effect

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Catsup

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Caustic

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect

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Caustic Liquid

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
ECTFE	No Effect
EPT	Minor Effect
HYPALON	No Effect
MONEL	No Effect
NORYL	Minor Effect
POLYPROPYLENE	No Effect
RYTON	Moderate Effect
VITON	No Effect

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Caustic Soda

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
BUNA	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HYPALON	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	Minor Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Moderate Effect
POLYSULFONE	No Effect
PVC	No Effect
RYTON	Moderate Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	**Severe Effect**

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Cellosolve

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Cellosolve Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
VITON	**Severe Effect**

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Cellosolve Butyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Celluguard

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Cellulose Acetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	Moderate Effect

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Cellulube Hydraulic Fluids

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Cellulube Hydraulic Fluids (Phosphate Esters)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Cellutherm 2505A

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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CERAMAGNET "A"

Chemical Compatibility

CHEMICAL	EFFECT
Acetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Methyl	No Effect
Aluminum Hydroxide	No Effect
Asphalt	No Effect
Barium Carbonate	No Effect
Barium Hydroxide	No Effect
Benzene	No Effect
Benzol	No Effect
Borax	No Effect
Boric Acid	No Effect
Bromine, Liquid	**Severe Effect**
Calcium Chloride	Minor Effect
Calcium Hydroxide	No Effect
Carbon Bisulfide	No Effect
Carbon Tetrachloride	No Effect
Castor Oil	No Effect
Chloroform	No Effect
Citric Acid	Minor Effect
Ethers	No Effect
Ethylene Glycol	No Effect
Formic Acid	Minor Effect
Freon 11	No Effect
Freon 113	No Effect
Freon 12	No Effect
Freon 22	No Effect
Freon T.F.	No Effect
Fruit Juices	No Effect
Hydrochloric Acid, 20%	**Severe Effect**
Hydrochloric Acid, 37%	**Severe Effect**
Hydrofluoric Acid, 20%	**Severe Effect**
Hydrofluoric Acid, 75%	**Severe Effect**

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Hydrogen Peroxide ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Ink ---------- No Effect
Kerosene ---------- No Effect
Linseed Oil ---------- No Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
Nitric Acid (Conc) ---------- Moderate Effect
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Phenol (Carbolic Acid) ---------- No Effect
Potash ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Hydroxide, 50% ---------- No Effect
Sea Water ---------- No Effect
Silicone ---------- No Effect
Soaps ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- Minor Effect
Sodium Nitrate ---------- No Effect
Stearic Acid ---------- No Effect
Sugar (Liquids) ---------- No Effect
Syrup ---------- No Effect
Tannic Acid ---------- No Effect
Toluene ---------- No Effect
Trichloroethylene ---------- Moderate Effect
Varnish ---------- No Effect
Vinegar ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect

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Water, Salt ---------- No Effect
Xylene ---------- No Effect

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CERAMIC

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetamide	No Effect
Acetate Solvents	No Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 80%	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetone	No Effect
Acetylene (Ethyne)	No Effect
Acrylonitrile	No Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 10%	No Effect
Aluminum Potassium Sulfate (Alum), 100%	No Effect
Aluminum Sulfate	No Effect
Amines	No Effect
Ammonia, 10%	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonia, Liquids	No Effect

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Ammonia, Nitrate ---------- No Effect
Ammonium Bifluoride, 10% ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Aniline ---------- No Effect
Aniline Oil ---------- No Effect
Anise Oil ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- No Effect
Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzoic Acid ---------- Moderate Effect
Benzol ---------- No Effect
Borax ---------- No Effect

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Boric Acid ---------- No Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ **Severe Effect**
Brass Plating, Reg Brass Bath 100 F ---------- Moderate Effect
Brewery Slop ---------- No Effect
Bromine, Liquid ---------- No Effect
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- Moderate Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - **Severe Effect**
Bronze Plating, Copper-Zinc Bronze Bath 100 F Moderate Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butter ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Cadmium Plating, Cyanide Bath 90 F ---------- Moderate Effect
Cadmium Plating, Fluoborate Bath 100 F ------- **Severe Effect**
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Sulfate ---------- No Effect
Calgon ---------- No Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide ---------- No Effect
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect

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Chloracetic Acid ---------- No Effect
Chlorinated Glue ---------- No Effect
Chlorine Water ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- No Effect
Chlorobenzene ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- Moderate Effect
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 5% ---------- Moderate Effect
Chromic Acid, 50% ---------- No Effect
Chromium Plating, Barrel Chrome Bath 95 F ---- No Effect
Chromium Plating, Black Chrome Bath 115 F ---- No Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F No Effect
Chromium Plating, Fluoride Bath 130 F -------- Minor Effect
Chromium Plating, Fluosilicate Bath 95 F ----- Minor Effect
Cider (Apple Juice) ---------- No Effect
Citric Acid ---------- No Effect
Citric Oils ---------- No Effect
Clove Oil ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- **Severe Effect**
Copper (Misc),Copper Pyrophosphate 140 F ----- Minor Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- **Severe Effect**
Copper Plating (Acid),Copper Sulfate Bath R.T. **Severe Effect**
Copper Plating (Cyanide),
Copper Strike Bath 120 F ---------- Moderate Effect

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Copper Plating (Cyanide),Hi Speed Bath 180 F - **Severe Effect**
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- **Severe Effect**
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Cresol ---------- No Effect
Cresylic Acid ---------- No Effect
Cyclohexane ---------- No Effect
Detergent Solutions ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Glycol ---------- No Effect
Diphenyl Oxide ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethyl Sulfate ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluboric Acid ---------- **Severe Effect**
Fluosilicic Acid ---------- **Severe Effect**

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Formaldehyde ---------- No Effect
Formaldehyde, 40% ---------- No Effect
Formic Acid ---------- No Effect
Freon 11 ---------- No Effect
Freon 113 ---------- No Effect
Freon 12 ---------- No Effect
Freon 22 ---------- No Effect
Freon T.F. ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Gelatin ---------- No Effect
Ginger Oil ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Gold Monocyanide ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- Minor Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- No Effect
Grease ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid, 20% ---------- Minor Effect
Hydrochloric Acid, 100% ---------- Moderate Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- Moderate Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**

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Hydrofluoric Acid, 20% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroxyacetic Acid, 70% ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- No Effect
Iodine ---------- No Effect
Iodine (In Alcohol) ---------- No Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- No Effect
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- **Severe Effect**
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- No Effect
Isopropyl Acetate ---------- No Effect
Isopropyl Ether ---------- No Effect
Isotane ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Lacquer Thinners ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid ---------- No Effect
Lard ---------- No Effect
Latex ---------- No Effect
Lead Acetate ---------- No Effect
Lead Fluoborate Plating ---------- **Severe Effect**
Lemon Oil ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- No Effect
Linseed Oil ---------- No Effect
Lubricants ---------- No Effect

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Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- No Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- No Effect
Mash ---------- No Effect
Mayonnaise ---------- No Effect
Melamine ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercury ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Dichloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Isobutyl Ketone ---------- No Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- No Effect
Methylamine ---------- No Effect
Methylene Chloride ---------- No Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
Mustard ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Plating, Electroless 200 F ---------- No Effect

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Nickel Plating, Fluoborate 100-170 F --------- **Severe Effect**
Nickel Plating, High Chloride 130-160 F ------ No Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Sulfate ------------------------------- No Effect
Nitric Acid (Conc) --------------------------- No Effect
Nitric Acid, 10% ----------------------------- Minor Effect
Nitric Acid, 20% ----------------------------- Moderate Effect
Nitric Acid, 50% ----------------------------- No Effect
Nitrobenzene --------------------------------- No Effect
Oleic Acid ----------------------------------- No Effect
Oleum -- No Effect
Oleum, 25% ----------------------------------- No Effect
Olive Oil ------------------------------------ No Effect
Orange Oil ----------------------------------- No Effect
Oxalic Acid ---------------------------------- No Effect
Palm Oil ------------------------------------- No Effect
Paraffins (Paraffin Oil) --------------------- No Effect
Peanut Oil ----------------------------------- No Effect
Penthane ------------------------------------- No Effect
Peppermint Oil ------------------------------- No Effect
Perchloroethylene ---------------------------- No Effect
Petrolatum ----------------------------------- No Effect
Phenol (Carbolic Acid) ----------------------- **Severe Effect**
Phosphoric Acid (Crude) ---------------------- **Severe Effect**
Photographic Solutions ----------------------- No Effect
Pine Oil ------------------------------------- No Effect
Plating Solutions, Antimony ------------------ No Effect
Plating Solutions, Arsenic ------------------- Moderate Effect
Potash --------------------------------------- No Effect
Potassium Bicarbonate ------------------------ No Effect
Potassium Bromide ---------------------------- No Effect
Potassium Carbonate -------------------------- No Effect
Potassium Chlorate --------------------------- No Effect
Potassium Chloride --------------------------- No Effect
Potassium Chromate --------------------------- **Severe Effect**

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Potassium Copper Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Hydroxide, 50% ---------- **Severe Effect**
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propylene Glycol ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- No Effect
Rape-Seed Oil ---------- No Effect
Rhodium Plating 120 F ---------- No Effect
Rosin ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Salad Dressing ---------- No Effect
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicone ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- Minor Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- **Severe Effect**

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Sodium Hydroxide, 20% ---------- **Severe Effect**
Sodium Hydroxide, 50% ---------- **Severe Effect**
Sodium Hydroxide, 80% ---------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- No Effect
Stannic Fluoborate ---------- No Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Liquors ---------- No Effect
Sulfur Chloride ---------- Moderate Effect
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Trioxide ---------- No Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfurous Acid ---------- No Effect
Sulfuryl Chloride ---------- No Effect
Syrup ---------- No Effect
Tallow ---------- No Effect

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Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tanning Oil ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tin-Fluoborate Plating 100 F ---------- **Severe Effect**
Tin-Lead Plating 100 F ---------- **Severe Effect**
Toluene ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Trichloroethane ---------- No Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- No Effect
Turbine Oil ---------- No Effect
Turpentine ---------- No Effect
Urine ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vinegar ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Water (Paper Mill) ---------- No Effect
Xylene ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ **Severe Effect**
Zinc Plating, Acid Sulfate Bath 150 F -------- No Effect

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Zinc Plating, Alkaline Cyanide Bath R.T. ----- **Severe Effect**
Zinc Sulfate ---------- No Effect

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CERAMIC ALUMINA

Chemical Compatibility

CHEMICAL	EFFECT
Acetate Solvents	No Effect
Acetic Acid	No Effect
Acetone	No Effect
Aluminum Chloride	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonium Chloride	No Effect
Ammonium Hydroxide	No Effect
Ammonium Sulfate	No Effect
Barium Chloride	No Effect
Barium Nitrate	No Effect
Barium Sulfate	Minor Effect
Benzoic Acid	Minor Effect
Boric Acid	Minor Effect
Calcium Chloride	No Effect
Calcium Hydroxide	No Effect
Carbon Bisulfide	No Effect
Carbon Disulfide	Minor Effect
Carbon Tetrachloride	No Effect
Chromic Acid	Moderate Effect
Citric Acid	No Effect
Copper Sulfate	No Effect
Corn Oil	No Effect
Cyclohexane	No Effect
Detergent Solutions	No Effect
Ethyl Acetate	No Effect
Ethyl Chloride	No Effect
Ethylene Glycol	No Effect
Ferric Chloride	No Effect
Ferric Sulfate	No Effect
Ferrous Chloride	No Effect
Ferrous Sulfate	No Effect
Formaldehyde	No Effect

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Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrofluoric Acid, 50% ---------- **Severe Effect**
Hydrogen Peroxide ---------- No Effect
Hydrogen Sulfide ---------- No Effect
Iodine ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Lubricating Oils ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Mineral Oils ---------- No Effect
Mustard ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid, 20% ---------- Moderate Effect
Phosphoric Acid ---------- **Severe Effect**
Photographic Developers ---------- No Effect
Photographic Fixer ---------- **Severe Effect**
Potassium Bicarbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propylene Glycol ---------- No Effect
Silicone Oils ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect

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Sodium Cyanide ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Soybean Oil ---------- No Effect
Stannic Chloride ---------- No Effect
Sulfur Chloride ---------- Moderate Effect
Sulfur Dioxide ---------- No Effect
Sulfur Trioxide ---------- No Effect
Sulfurous Acid ---------- Moderate Effect
Toluene ---------- No Effect
Trichloroethane ---------- No Effect
Turpentine ---------- No Effect
Vinegar ---------- No Effect
Water, Fresh ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Sulfate ---------- No Effect

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CERAMIC BARIUM FERRITE

Chemical Compatibility

CHEMICAL	EFFECT
Acetic Acid	No Effect
Acetone	Minor Effect
Ammonium Chloride	No Effect
Calcium Hydroxide	No Effect
Carbon Bisulfide	No Effect
Carbon Tetrachloride	No Effect
Chloroacetic Acid	**Severe Effect**
Copper Sulfate	No Effect
Ethyl Cellosolve	**Severe Effect**
Ethyl Chloride	No Effect
Fruit Juices	No Effect
Gasoline (Petrol)	No Effect
Glycerine or Glycerol	No Effect
Hydrocarbons, Pure	No Effect
Hydrochloric Acid	**Severe Effect**
Hydrochloric Acid, 20%	**Severe Effect**
Hydrofluoric Acid	**Severe Effect**
Hydrofluoric Acid, 50%	**Severe Effect**
Hydrofluosilicic Acid	**Severe Effect**
Hydrogen Peroxide	No Effect
Hydrogen Sulfide	Moderate Effect
Iodine	**Severe Effect**
Nickel Chloride	Moderate Effect
Nickel Sulfate	Minor Effect
Nitric Acid	No Effect
Nitric Acid, 20%	Minor Effect
Phosphoric Acid, 10%	No Effect
Photographic Developers	Moderate Effect
Potassium Carbonate	No Effect
Potassium Chloride	No Effect
Potassium Hydroxide	No Effect
Potassium Nitrate	No Effect

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Potassium Sulfate ---------- No Effect
Silicone Oils ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Nitrate ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfuric Acid ---------- Moderate Effect
Vinegar ---------- No Effect
Zinc Sulfate ---------- No Effect

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Cetane (Hexadecane)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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China Wood Oil (Tung Oil)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chloracetic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	Minor Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect

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TYGON (E-3606) ---------- **Severe Effect**

VITON ---------- **Severe Effect**

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Chloral Hydrate

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect

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Chlorate of Lime

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	**Severe Effect**
E.P.D.M.	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Chlorbenzol (Conc. Pure)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect

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Chlorextol

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chloric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
EPOXY	**Severe Effect**
NEOPRENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect

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Chlorinated Glue

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
NEOPRENE	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
NYLON (Polyamide)	Moderate Effect
RUBBER (Natural)	**Severe Effect**
VITON	No Effect
VITON	No Effect

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Chlorinated Lime

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	Moderate Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chlorinated Lime, 35% (Bleach)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chlorinated Salt Brine

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Chlorinated Solvents

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
HYPALON	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	No Effect
POLYETHYLENE	Moderate Effect
TEFLON	No Effect
VITON	Minor Effect

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Chlorinated Solvents, Dry

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chlorinated Solvents, Wet

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chlorinated Water, Saturate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Moderate Effect
BUNA	Moderate Effect
CARBON	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
MONEL	**Severe Effect**
NORYL	Minor Effect
PHENOLIC	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Chlorine

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
ECTFE	No Effect
EPT	**Severe Effect**
HYPALON	**Severe Effect**
MONEL	Minor Effect
NORYL	**Severe Effect**
PHENOLIC	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Chlorine Dioxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Chlorine Gas - 100 Degrees C

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Chlorine Gas - Dry

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Chlorine Gas - Moist

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
COPPER	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Chlorine Trifluoride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	**Severe Effect**
HYPALON	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
PHENOLIC	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Chlorine Water

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	Moderate Effect
NORPRENE	No Effect
NORYL	Moderate Effect
NYLON (Polyamide)	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	No Effect
PVC	No Effect
RYTON	Moderate Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
VINYL	No Effect
VITON	No Effect

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Chlorine, Anhydrous Liquid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
EPOXY	Minor Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	No Effect
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	Moderate Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
TYGON (E-3606)	Minor Effect

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VITON ---------- No Effect

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Chlorine, Dry

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	No Effect
EPOXY	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	Minor Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Chlorine, Liquid, Anhydrous

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
NORPRENE	No Effect
NYLON (Polyamide)	Minor Effect
POLYETHYLENE	No Effect
POLYSULFONE	No Effect
PVC	**Severe Effect**
RYTON	No Effect
TEFLON	Moderate Effect
VINYL	No Effect
VITON	No Effect

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Chlorine, Wet

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chloroacetic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC BARIUM FERRITE	**Severe Effect**
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	Minor Effect
NEOPRENE	Moderate Effect
NORPRENE	Minor Effect
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect

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SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Chloroacetone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Chlorobenzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**

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POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICONE ---------- Minor Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- No Effect

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Chlorobromomethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chlorobutadiene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chlorodane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
VITON	No Effect

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Chlorododecane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Chloroform

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYACETAL	No Effect

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POLYCARBONATE (LEXAN) ---------- **Severe Effect**
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- Minor Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- No Effect

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Chloropicrin

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
KALREZ	No Effect
TEFLON	No Effect

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Chlorosulfonic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	Moderate Effect
E.P.D.M.	**Severe Effect**
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVC	Moderate Effect
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
SILICON	**Severe Effect**
SILICONE	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Moderate Effect
VINYL	**Severe Effect**
VITON	**Severe Effect**

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Chlorosulfonic Acid (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Chlorosulfonic Acid (Wet)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Chlorothene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Chlorotoluene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Chlorotrifluoroethylene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
HASTELLOY C	Minor Effect
TEFLON	No Effect

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Chlorox

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	Moderate Effect
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Chocolate Syrup

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chrome Alum

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Chrome Plating Solutions

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Chromic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	**Severe Effect**
CERAMIC ALUMINA	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
MONEL	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Chromic Acid, 10%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC	No Effect
ECTFE	No Effect
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
MONEL	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	**Severe Effect**
PVC	No Effect
RYTON	No Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VINYL	No Effect
VITON	No Effect

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Chromic Acid, 30%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Minor Effect
ACRYLIC	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC	No Effect
EPOXY	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	**Severe Effect**
PVC	Minor Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VINYL	No Effect
VITON	No Effect

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Chromic Acid, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	Moderate Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**

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PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Minor Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- No Effect

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Chromic Acid, 50%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	Minor Effect
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Minor Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- Minor Effect
VITON ---------- No Effect

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Chromic Acid, 50% Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect

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Chromic Oxide .88 Wt. %

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Chromium Plating Bath

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
TEFLON	No Effect

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Chromium Plating, Barrel Chrome Bath 95 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	Moderate Effect
VITON	Moderate Effect

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Chromium Plating, Black Chrome Bath 115 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	**Severe Effect**
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	Moderate Effect

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Chromium Plating, Chromic-Sulfuric Bath 130 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	**Severe Effect**
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	Moderate Effect

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Chromium Plating, Fluoride Bath 130 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC	Minor Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	Moderate Effect
VITON	Moderate Effect

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Chromium Plating, Fluosilicate Bath 95 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	**Severe Effect**
CERAMIC	Minor Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TITANIUM	Moderate Effect
VITON	Moderate Effect

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Chromium Sulfate (Basic)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Cider (Apple Juice)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Cinnamon Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect

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Circo Light Process Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Citric Acid

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
MONEL	Minor Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect
PHENOLIC	Minor Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect

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PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VINYL	No Effect
VITON	Moderate Effect

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Citric Acid, 15% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	No Effect

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Citric Acid, 15% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Citric Acid, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	No Effect
VITON	No Effect

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Citric Acid, 5% Solution (@ 150 F)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Citric Acid, Concentrated (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Citric Acid, Hot Conc.

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
CARBON	**Severe Effect**
ECTFE	No Effect
HASTELLOY C	No Effect
MONEL	Moderate Effect
NORYL	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect

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Citric Oils

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
VITON	No Effect

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Citrus Pectin Liquor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Clove Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	Minor Effect
TEFLON	No Effect

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Coal Gas

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
VITON	No Effect

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Coal Tars

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Cobalt Chloride

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
E.P.D.M.	Moderate Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Coca Cola Syrup

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
TEFLON	No Effect

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Coconut Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Cod Liver Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Coffee

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RUBBER (Natural)	No Effect
TEFLON	No Effect
VITON	No Effect

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Coke Oven Gas

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	Moderate Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Coliche Liquors

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect

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Convelex 10

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect

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Coolanol (Monsanto)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Copal Varnish

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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COPPER

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
Acetate Solvents	No Effect
Acetic Acid Vapors - 100% (Hot)	Minor Effect
Acetic Acid, 100% Solution	Minor Effect
Acetic Acid, 30%	Minor Effect
Acetic Acid, 50%	Minor Effect
Acetic Acid, 80%	Minor Effect
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	Minor Effect
Acetone	No Effect
Acetonitrile (Methyl Cyanide)	Minor Effect
Acetophenone	No Effect
Acetyl Acetone	No Effect
Acetyl Chloride	No Effect
Acetylene (Ethyne)	**Severe Effect**
Acrylonitrile	No Effect
Adipic Acid	**Severe Effect**
Aero Lubriplate	No Effect
Aerosafe 2300	No Effect
Aerosafe 2300W	No Effect
Aeroshell 17 Grease	No Effect
Aeroshell 1AC	No Effect
Aeroshell 750	No Effect
Aeroshell 7A Grease	No Effect
Air	No Effect
Alcohol	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Methyl	No Effect
Allyl Alcohol	Minor Effect
Aluminum Acetate	Minor Effect

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Aluminum Chloride ---------- Minor Effect
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Potassium Sulfate ---------- Minor Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate, 2% Solution ------ No Effect
Aluminum Sulfate ---------- Minor Effect
AMERSEP MP-7 ---------- **Severe Effect**
Ammonia, Anhydrous, Liquid ---------- **Severe Effect**
Ammonium Bicarbonate ---------- **Severe Effect**
Ammonium Carbonate ---------- **Severe Effect**
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Dichromate ---------- **Severe Effect**
Ammonium Diphosphate ---------- **Severe Effect**
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Monophosphate ---------- **Severe Effect**
Ammonium Nitrate ---------- **Severe Effect**
Ammonium Nitrite ---------- **Severe Effect**
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- **Severe Effect**
Ammonium Phosphate, Di-Basic ---------- **Severe Effect**
Ammonium Phosphate, Monobasic ---------- **Severe Effect**
Ammonium Phosphate, Tri-Basic ---------- **Severe Effect**
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- **Severe Effect**
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- **Severe Effect**
Ammonium Thiosulfate ---------- **Severe Effect**

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Ammonium Triphosphate ---------- **Severe Effect**
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Anhydrous Ammonia ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- **Severe Effect**
Aniline Hydrochloride ---------- Minor Effect
Aniline Sulfite ---------- Minor Effect
Animal Fats & Oils ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Aromatic Hydrocarbons ---------- No Effect
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- **Severe Effect**
Asphalt ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride Aqueous Solution (Hot) ------- **Severe Effect**
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- **Severe Effect**
Barium Sulfate ---------- Minor Effect
Barium Sulfate Aqueous Solution (Hot) -------- Minor Effect
Barium Sulfide ---------- **Severe Effect**
Beer (Alcohol Ind.) ---------- Minor Effect
Beer (Beverage Ind.) ---------- Minor Effect
Beet Sugar Liquors ---------- No Effect

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Benzene Sulfonic Acid ---------- Minor Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- No Effect
Benzophenone ---------- Minor Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- Minor Effect
Black Sulfate Liquor ---------- **Severe Effect**
Bleaching Powder (Wet) ---------- Minor Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Water ---------- Minor Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Buttermilk ---------- **Severe Effect**
Butyl Acetate ---------- **Severe Effect**
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Stearate ---------- Minor Effect
Butylene ---------- No Effect
Butyric Acid ---------- Minor Effect
Cadmium Sulfate (25% Concentration) ---------- Minor Effect
Calcium Acetate ---------- Minor Effect
Calcium Bisulfite ---------- Minor Effect
Calcium Carbonate ---------- Minor Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide, 10% (Boiling) ---------- **Severe Effect**
Calcium Hydroxide, 20% (Boiling) ---------- **Severe Effect**

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Calcium Hydroxide, 50% (Boiling) ---------- **Severe Effect**
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Phosphate ---------- Minor Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate - Saturated ---------- Minor Effect
Calcium Sulfide ---------- **Severe Effect**
Calcium Sulfite ---------- **Severe Effect**
Camphor ---------- Minor Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Carbitol ---------- Minor Effect
Carbolic Acid ---------- Minor Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride-Pure ---------- No Effect
Carbonated Water ---------- Minor Effect
Castor Oil ---------- No Effect
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chloric Acid ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Gas - Dry ---------- No Effect
Chlorine Gas - Moist ---------- **Severe Effect**
Chlorine Trifluoride ---------- No Effect
Chlorine, Dry ---------- No Effect
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobromomethane ---------- Minor Effect
Chloroform ---------- No Effect
Chlorotoluene ---------- Minor Effect
Chromic Acid, 5% ---------- **Severe Effect**

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Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid, 15% Solution ---------- **Severe Effect**
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- Minor Effect
Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Copper Nitrate, 1% & 5% ---------- **Severe Effect**
Copper Nitrate, 50% Aqueous Solution (Hot) --- **Severe Effect**
Copper Sulfate, 10% ---------- Minor Effect
Copper Sulfate, 5% ---------- Minor Effect
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- No Effect
Cresylic Acid ---------- Minor Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- Minor Effect
Cyclohexanone ---------- Minor Effect
D.D.T. ---------- Minor Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Ether ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Diemethyl Formamide ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- **Severe Effect**
Diethyl Amine ---------- **Severe Effect**

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Diethyl Ether ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diisopropyl Ketone ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioxane ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- **Severe Effect**
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Chloride (Wet) ---------- Minor Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- Minor Effect
Ethylene ---------- No Effect
Ethylene Chloride ---------- Minor Effect
Ethylene Diamine ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect

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Ethylene Oxide ---------- **Severe Effect**
Ethylene Trichloride ---------- No Effect
Fatty Acids ---------- **Severe Effect**
Ferric Chloride, 1% ---------- **Severe Effect**
Ferric Chloride, 1% Solution (Boiling) ------- **Severe Effect**
Ferric Chloride, 10% Solution ---------- **Severe Effect**
Ferric Chloride, 5% Agitated or Aerated ------ **Severe Effect**
Ferric Chloride, 5% Solution (Still) --------- **Severe Effect**
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- **Severe Effect**
Ferric Sulphate 1% to 5% ---------- **Severe Effect**
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate, 10% Solution ---------- Minor Effect
Fluoride (Dry) ---------- No Effect
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- Minor Effect
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- No Effect
Freon, BF ---------- No Effect

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Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Gallic Acid ---------- No Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- **Severe Effect**
Gelatin ---------- No Effect
Glucose ---------- No Effect
Glutamic Acid ---------- **Severe Effect**
Glycerine or Glycerol ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- Minor Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- **Severe Effect**
Hydrogen ---------- No Effect
Hydrogen Cyanide Gas ---------- Minor Effect
Hydrogen Gas (Cold) ---------- No Effect

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Hydrogen Peroxide ---------- Minor Effect
Hydrogen Sulfide Dry, Cold ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- **Severe Effect**
Hydroquinone ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Isododecane ---------- Minor Effect
Isophorone ---------- Minor Effect
Isopropanol ---------- Minor Effect
Isopropyl Chloride ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid, 5% Solution ---------- No Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Light Grease ---------- No Effect
Ligroin ---------- No Effect
Lime Slurries ---------- No Effect
Lime Sulfur ---------- **Severe Effect**
Lindol ---------- No Effect
Linoleic Acid ---------- **Severe Effect**
Linseed Oil ---------- Minor Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect

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Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Sulfate ---------- Minor Effect
Magnesium Sulfite ---------- Minor Effect
Malic Acid ---------- Minor Effect
Malt Beverages ---------- Minor Effect
Manganese Chloride ---------- Minor Effect
Mayonnaise ---------- Minor Effect
Mercaptan ---------- Minor Effect
Mercuric Chloride ---------- **Severe Effect**
Mercury ---------- **Severe Effect**
Mercury Salts ---------- **Severe Effect**
Mesityl Oxide ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- Minor Effect
Methyl Acetoacetate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- Minor Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Ether ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Salicylate ---------- Minor Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- **Severe Effect**
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect

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MLO-8515 ---------- No Effect
Molasses ---------- No Effect
Monobromobenzene ---------- No Effect
Monochloracetic Acid ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- **Severe Effect**
Monomethylaniline ---------- **Severe Effect**
N-Butyl Ether ---------- **Severe Effect**
N-Hexaldehyde ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- Minor Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- Minor Effect
Neon ---------- No Effect
Nickel Acetate ---------- Minor Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitriding Gases ---------- No Effect
Nitrobenzene ---------- Minor Effect
Nitroethane ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrous Acid ---------- **Severe Effect**
Nitrous Oxide ---------- Minor Effect
O-Chloronaphthalene ---------- Minor Effect
O-Chlorphenol ---------- Minor Effect

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Octyl Alcohol ---------- No Effect
Oils (Animal) ---------- No Effect
Oleic Acid ---------- No Effect
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Cold ---------- No Effect
Ozone (Wet) ---------- No Effect
P-Dichlorobenzene ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- Minor Effect
Paraformaldehyde ---------- No Effect
Paraldehyde ---------- No Effect
Peanut Oil ---------- No Effect
Perchloric Acid ---------- **Severe Effect**
Perchloroethylene ---------- Minor Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petroleum Oils (Refined) ---------- No Effect
Petroleum Oils (Sour) ---------- **Severe Effect**
Phenol ---------- No Effect
Phosphoric Acid (Aerated) ---------- **Severe Effect**
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- Minor Effect
Phosphoric Acid, 10% Solution (Hot) ---------- Minor Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- Minor Effect
Phosphoric Acid, 50% Solution (Hot) ---------- Minor Effect
Phosphoric Acid, 85% Solution ---------- Minor Effect
Phosphoric Acid, 85% Solution (Hot) ---------- Minor Effect
Phosphorous ---------- No Effect
Phosphorus Oxychloride ---------- **Severe Effect**
Phthalic Acid ---------- Minor Effect
Phthalic Anhydride ---------- No Effect
Picric Acid, H2O Solution ---------- **Severe Effect**

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Pitch ---------- **Severe Effect**
Pneumatic Service ---------- No Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bromide ---------- Minor Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- **Severe Effect**
Potassium Cyanide ---------- **Severe Effect**
Potassium Dichromate ---------- **Severe Effect**
Potassium Ferricyanide ---------- Minor Effect
Potassium Hydroxide, 27% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 5% Solution ---------- Minor Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Hydroxide, 70% Solution ---------- Minor Effect
Potassium Hydroxide, 70% Solution (Hot) ------ Minor Effect
Potassium Iodide ---------- Minor Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Oxalate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Peroxide ---------- **Severe Effect**
Potassium Sulfate ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- **Severe Effect**
Potassium Sulphate ---------- Minor Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propionic Acid ---------- Minor Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect

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Propylene Glycol ---------- No Effect
Propylene Oxide ---------- Minor Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Minor Effect
Resins and Rosins ---------- No Effect
Rosin ---------- Minor Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- Minor Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- Minor Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Chloride ---------- Minor Effect
Silver Cyanide ---------- **Severe Effect**
Soap Solutions ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- Minor Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- Minor Effect
Sodium Bromide ---------- **Severe Effect**
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride, 2% Solution ---------- Minor Effect
Sodium Chloride, 5% Solution ---------- Minor Effect
Sodium Chromate ---------- Minor Effect
Sodium Citrate ---------- **Severe Effect**

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Sodium Cyanide ---------- **Severe Effect**
Sodium Ferrocyanide ---------- **Severe Effect**
Sodium Fluoride ---------- **Severe Effect**
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) --------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- Minor Effect
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate (Cold) ---------- Minor Effect
Sodium Metasilicate (Hot) ---------- Minor Effect
Sodium Monophosphate ---------- **Severe Effect**
Sodium Nitrate ---------- **Severe Effect**
Sodium Nitrate - Fused ---------- Minor Effect
Sodium Perborate ---------- Minor Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Tribasic) ---------- Minor Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate (Hot) ---------- Minor Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- **Severe Effect**
Sodium Sulfide - Saturated ---------- **Severe Effect**
Sodium Sulfite ---------- **Severe Effect**
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- Minor Effect
Sodium Sulphide ---------- **Severe Effect**
Sodium Tetra Borate (Borax) ---------- Minor Effect
Sodium Tetraborate ---------- Minor Effect
Sodium Thiosulfate ---------- **Severe Effect**
SP-90X ---------- **Severe Effect**
Steam, Above 350 F ---------- Minor Effect
Steam, Below 350 F ---------- Minor Effect
Stearic Acid ---------- **Severe Effect**
Stoddard Solvent ---------- No Effect
Styrene ---------- Minor Effect

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Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- **Severe Effect**
Sulfate Green Liquor ---------- **Severe Effect**
Sulfur ---------- **Severe Effect**
Sulfur Chloride ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- Minor Effect
Sulfuric Acid (Aerated) No Velocity ---------- **Severe Effect**
Sulfuric Acid (Fuming) ---------- **Severe Effect**
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- Minor Effect
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- Minor Effect
Sulphuric Acid, 5% Solution (Boiling) -------- Minor Effect
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------- **Severe Effect**
Sulphurous Acid - Saturated ---------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Tannic Acid ---------- No Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- No Effect
Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoric Acid ---------- **Severe Effect**
THIO-RED ---------- **Severe Effect**
Toluene ---------- No Effect
Toluol ---------- No Effect

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Transformer Oil ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Trichloroacetic Acid ---------- **Severe Effect**
Trichloromonofluoroethane (Freon 17) --------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- **Severe Effect**
Triethyl Aluminum ---------- **Severe Effect**
Triethyl Amine ---------- **Severe Effect**
Trisodium Phosphate ---------- **Severe Effect**
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- No Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Varnish ---------- No Effect
Vegetable Oil (Hot) ---------- Minor Effect
Vegetable Oils ---------- Minor Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- Minor Effect
Vinyl Acetate ---------- Minor Effect
Vinyl Chloride ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- **Severe Effect**
Water, Brine, Process, Beverage ---------- Minor Effect
Water, Distilled ---------- Minor Effect
Water, Fresh ---------- Minor Effect
Water, Salt ---------- Minor Effect
Waxes ---------- No Effect
Whiskey ---------- Minor Effect

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Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- No Effect
Zinc Ammonium Chloride ---------- No Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- Minor Effect
Zinc Chloride, 5% Solution ---------- Minor Effect
Zinc Hydrosulfite ---------- Minor Effect
Zinc Sulfate ---------- Minor Effect
Zinc Sulfate, 5% Solution ---------- Minor Effect
Zinc Sulfate, Saturated Solution ---------- Minor Effect

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Copper (Misc),Copper (Electroless) 140 F

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
CAST BRONZE	**Severe Effect**
CERAMIC	**Severe Effect**
EPOXY	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper (Misc),Copper Pyrophosphate 140 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	Minor Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Copper Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Copper Acetate, Saturated Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Copper Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	No Effect

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Copper Chloride, 1%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Chloride, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Cyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- No Effect

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Copper Floborate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Fluoride

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
ETHYLENE PROPYLENE	No Effect
HYPALON	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Fluoroborate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CAST IRON	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Copper Nitrate Hexahydrate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Nitrate, 1% & 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Nitrate, 50% Aqueous Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Plating (Acid),Copper Fluoborate Bath 120 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	Minor Effect
CERAMIC	**Severe Effect**
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Copper Plating (Acid),Copper Sulfate Bath R.T.

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	No Effect
CERAMIC	**Severe Effect**
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Copper Plating (Cyanide),Copper Strike Bath 120 F

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
CERAMIC	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	Minor Effect

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Copper Plating (Cyanide),Hi Speed Bath 180 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	**Severe Effect**
EPOXY	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Copper Plating (Cyanide),Rochelle Salt Bath 150 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	**Severe Effect**
EPOXY	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Copper Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	No Effect

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Copper Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	**Severe Effect**
NEOPRENE	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect
PHENOLIC	Minor Effect

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POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Copper Sulfate, 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Sulfate, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
EPOXY	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Copper Sulfate, 50%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Sulfide

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect
VITON	No Effect

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Copper Sulphate, Saturated Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
TEFLON	No Effect
VITON	No Effect

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Copperas

Material Compatibility

MATERIAL	EFFECT
TEFLON	No Effect

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Core Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Corn Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- **Severe Effect**

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Cottonseed Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HYPALON	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	No Effect

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PVC ---------- No Effect

PVDF 150 DEGREES (KYNAR) ---------- No Effect

RUBBER (Natural) ---------- **Severe Effect**

RYTON ---------- No Effect

SILICONE ---------- No Effect

TEFLON ---------- No Effect

VITON ---------- No Effect

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Cream

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Creosols

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Creosote, Coal-Tar

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	No Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Creosote, Wood-Tar

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Cresol

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TYGON (E-3606)	**Severe Effect**
VINYL	**Severe Effect**
VITON	Moderate Effect

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Cresylic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
SILICONE	Moderate Effect
TEFLON	No Effect
VINYL	No Effect

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VITON ---------- No Effect

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Crotonaldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Crude Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	Minor Effect
VITON	No Effect

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Cumeme

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Cutting Oil (Sulfur Base)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect

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Cutting Oil (Water Base)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Cyanic Acid

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	Moderate Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	**Severe Effect**

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Cyclohexane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	**Severe Effect**

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POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	**Severe Effect**
VITON	No Effect

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Cyclohexanol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Moderate Effect
BUNA	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
NORPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYSULFONE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	Moderate Effect

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Cyclohexanone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Cyclopentane

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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CYCOLAC (ABS)

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	**Severe Effect**
Acetic Acid, 5%	Moderate Effect
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	**Severe Effect**
Acetyl Chloride	**Severe Effect**
Acrylonitrile	**Severe Effect**
Alcohol, Amyl	Minor Effect
Alcohol, Benzyl	**Severe Effect**
Alcohol, Ethyl	Minor Effect
Alcohol, Isobutyl	Minor Effect
Alcohol, Methyl	**Severe Effect**
Ammonium Hydroxide	Minor Effect
Aniline	**Severe Effect**
Aniline Dyes	**Severe Effect**
Aniline Oil	**Severe Effect**
Beer	Minor Effect
Beet Sugar Liquids	Minor Effect
Beet Sugar Liquors	Minor Effect
Benzaldehyde	**Severe Effect**
Benzene	**Severe Effect**
Bromine, Liquid	**Severe Effect**
Butane	Minor Effect
Butter	Minor Effect
Buttermilk	Minor Effect
Butyric Acid	**Severe Effect**
Calcium Chloride	Minor Effect
Calcium Sulfate	Moderate Effect
Carbon Dioxide, Dry	Minor Effect
Carbon Dioxide, Wet	Minor Effect

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Carbon Tetrachloride ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Catsup ---------- Minor Effect
Chlorinated Glue ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorox ---------- Minor Effect
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- Moderate Effect
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Citric Acid ---------- Moderate Effect
Citric Acid, 5% Solution ---------- **Severe Effect**
Cod Liver Oil ---------- Moderate Effect
Corn Oil ---------- Moderate Effect
Cottonseed Oil ---------- Moderate Effect
Creosols ---------- **Severe Effect**
Cresol ---------- **Severe Effect**
Detergent Solutions ---------- Minor Effect
Diethylene Glycol ---------- Minor Effect
Ethyl Acetate ---------- **Severe Effect**
Ethyl Chloride (Dry) ---------- **Severe Effect**
Ethyl Chloride (Wet) ---------- **Severe Effect**
Ethylene Chloride ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- Minor Effect
Ferric Sulfate ---------- **Severe Effect**
Formaldehyde (Hot) ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- No Effect
Freon 11 ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Gasoline (Aviation) ---------- **Severe Effect**
Gasoline (Meter) ---------- **Severe Effect**

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Gasoline (Sour) ---------- **Severe Effect**
Glucose ---------- Minor Effect
Glycerine or Glycerol ---------- **Severe Effect**
Glycolic Acid ---------- Minor Effect
Grape Juice ---------- Minor Effect
Heptane ---------- Moderate Effect
Hexane ---------- **Severe Effect**
Honey ---------- Minor Effect
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid, 20% ---------- Minor Effect
Hydrochloric Acid, 37% ---------- Moderate Effect
Hydrocloric Acid 3 Molar ---------- No Effect
Hydrocloric Acid Concentrated ---------- No Effect
Hydrocyanic Acid ---------- Minor Effect
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 90% ---------- Minor Effect
Ink (Printers) ---------- Minor Effect
Iodine ---------- **Severe Effect**
Kerosene ---------- **Severe Effect**
Ketones ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- Minor Effect
Lard ---------- Moderate Effect
Latex ---------- Minor Effect
Lead Acetate ---------- Minor Effect
Lime ---------- Moderate Effect
Linseed Oil ---------- Moderate Effect
Lubricants ---------- Minor Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydroxide ---------- Minor Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Sulfate ---------- Minor Effect

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Mayonnaise ---------- Minor Effect
Mercury ---------- Minor Effect
Methanol (See Alcohol Methyl) ---------- Minor Effect
Methyl Acetate ---------- **Severe Effect**
Methyl Alcohol ---------- Minor Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- Minor Effect
Molasses ---------- Minor Effect
Mustard ---------- Minor Effect
Naptha ---------- Moderate Effect
Napthalene ---------- **Severe Effect**
Nickel Chloride ---------- Minor Effect
Nickel Sulfate ---------- Minor Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid, 10% ---------- Moderate Effect
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Oleic Acid ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- No Effect
Paraffins (Paraffin Oil) ---------- Minor Effect
Penthane ---------- **Severe Effect**
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- Minor Effect
Phenol ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid, 1% Solution ---------- Minor Effect
Phosphoric Acid, 10% ---------- Minor Effect
Phosphoric Acid, 10% Solution (Hot) ---------- Minor Effect
Phosphoric Acid, 5% Solution ---------- Minor Effect

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Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Acid, 50% Solution (Hot) ---------- **Severe Effect**
Phosphoric Acid, 85% Solution ---------- **Severe Effect**
Phosphoric Acid, 85% Solution (Hot) ---------- **Severe Effect**
Photographic Developers ---------- Minor Effect
Picric Acid, H2O Solution ---------- No Effect
Potassium Bicarbonate ---------- Moderate Effect
Potassium Chloride ---------- Moderate Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 50% ---------- Moderate Effect
Potassium Permanganate ---------- Moderate Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Propylene Glycol ---------- Minor Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Moderate Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Carbonate ---------- Moderate Effect
Sodium Chloride ---------- Minor Effect
Sodium Hydroxide ---------- Moderate Effect
Sodium Hydroxide, 20% ---------- Moderate Effect
Sodium Hydroxide, 20% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 50% ---------- Moderate Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 80% ---------- Moderate Effect
Sodium Hydroxide, 80% Solution (Hot) ---------- **Severe Effect**
Stoddard Solvent ---------- Minor Effect
Sugar (Liquids) ---------- Minor Effect
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- Minor Effect
Syrup ---------- Minor Effect
Toluene ---------- **Severe Effect**

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Toluol ---------- **Severe Effect**
Tomato Pulp & Juice ---------- Minor Effect
Trichloroethylene ---------- **Severe Effect**
Trichloropropane ---------- **Severe Effect**
Turbine Oil ---------- Moderate Effect
Vinegar ---------- Minor Effect
Water Acid, Mine ---------- Minor Effect
Water, Acid Mine ---------- Minor Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Xylene ---------- **Severe Effect**

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Cycolic Acid

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
CARBON	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TYGON (E-3606)	No Effect
VITON	No Effect

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Cymene

Material Compatibility

MATERIAL	EFFECT
BUNA	Moderate Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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D.D.T.

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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De-Ionized Water

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect

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Decahydronaphthalene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Decalin

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	Minor Effect
VITON	No Effect

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Decanal

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Decane

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Decyl Alcohol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Degreasing Fluid (Chlorinated)

Material Compatibility

MATERIAL	EFFECT
VITON	No Effect

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Denatured Alcohol

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Detergent Solutions

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HYPALON	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
TEFLON	No Effect

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VITON ---------- Moderate Effect

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Developing Fluids & Solutions

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Dextron

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	No Effect

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Dextrose

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Di-Ester Lubricant Mil-L-7808

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Di-Ester Synthetic Lubricants

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Diacetone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Diacetone Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Diamylamine

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Diazinon

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
VITON	Minor Effect

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Diazo Salts

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect

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Dibenzyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	Moderate Effect

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Dibenzyl Sebecate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Dibromoethyl Benzene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Dibutyl Amine

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	**Severe Effect**
VITON	**Severe Effect**

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Dibutyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Dibutyl Mercaptan

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Dibutyl Phthalate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Dibutyl Sebecate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Dichlorethane

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TYGON (E-3606)	**Severe Effect**
VITON	Moderate Effect

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Dichloro Isopropyl Ether

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Dichloro-Butane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Dichloroacetic Acid

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Dichlorobutane

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Dichloroethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	Minor Effect
VITON	No Effect

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Dichloroethyl Ether

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
TEFLON	No Effect

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Dichloropenthane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Dichlorophenol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
KALREZ	No Effect
VITON	No Effect

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Dicyclohexylamine

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Diemethyl Formamide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Diesel Fuel

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
VITON	No Effect

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Diesel Fuel Oil (2D,3D,4D,5D)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
VITON	No Effect

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Diesel Oil (Fuel ASTM #2)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Diester Synthetic Oils

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Diethanol Amine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Diethyl Amine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Diethyl Aniline

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect
POLYURETHANE, URETHANE	No Effect

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Diethyl Benzene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Diethyl Carbonate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Diethyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Diethyl Phthalate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Diethyl Sebacate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Diethyl Sulfate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
KALREZ	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Diethylamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HYPALON	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	Minor Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	Moderate Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Diethylene Ether (Dioxane)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Diethylene Glycol

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	No Effect
SILICON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
VITON	No Effect

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Diethylene Triamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Difluorodibromomethane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**

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Diglycolic Acid

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect

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Diisobutyl Ketone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Diisobutylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Diisodecyl Adipate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Diisodecyl Phthalate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Diisooctyl Adipate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Diisooctyl Phthalate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Diisooctyl Sebecate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Diisopropyl Amine

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
TEFLON	No Effect

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Diisopropyl Benzene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Diisopropyl Ketone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Dimethyl Aniline

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Dimethyl Ether

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CAST IRON	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Dimethyl Phthalate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Dimethyl Sulfate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Dimethyl Sulfide

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect

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Dimethylamine

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RYTON	No Effect

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Dinitrotoluene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
SILICONE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Dioctyl Phthalate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Dioctyl Sebecate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Dioctylphthalate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
SILICONE	Moderate Effect
TEFLON	No Effect
VITON	Moderate Effect

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Dioxalanes

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Dioxane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
VITON	**Severe Effect**

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Dioxolane (Dioxalans)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Dipentene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Diphenyl

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Diphenyl Oxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
SILICONE	Moderate Effect
TEFLON	No Effect
VITON	No Effect

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Dipropyl Ketone

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Dipropylamine

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
TEFLON	No Effect

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Dipropylene Glycol

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
E.P.D.M.	Minor Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Dispersing Oil #10

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Disodium Phosphate

Material Compatibility

MATERIAL	EFFECT
ACRYLIC	No Effect
HYPALON	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Divinyl Benzene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Dodecyl Benzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
TEFLON	No Effect
VITON	No Effect

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Dow Corning (Silicones)

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Dowtherm (Biphenyl & Phenyl Ether)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Dowtherm A

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Dowtherm E

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Drilling Mud (Oil Base)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect

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Drilling Mud (Water Base)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect

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Drinking Water

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Drycleaning Fluids

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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DTE Light Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Dyes

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	No Effect
COPPER	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	No Effect

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E.P.D.M. (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	**Severe Effect**
1-Chlorol 1 Nitro Ethane	**Severe Effect**
1-Chloronaphthalene	**Severe Effect**
1-Nitropropane	No Effect
Acetaldehyde	Minor Effect
Acetamide	No Effect
Acetate Solvents	Minor Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid, 100% Solution	Minor Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 50%	Minor Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	Minor Effect
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	Minor Effect
Acetone	No Effect
Acetone Cyanohydrin	**Severe Effect**
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	No Effect
Acetyl Chloride	Moderate Effect
Acetyl Salicylic Acid	Minor Effect
Acetylene (Ethyne)	No Effect
Acetylene Tetrabromide	No Effect
Acid (Mild)	Minor Effect
Acid Mine Water	Minor Effect
Acids (Concentrated)	Minor Effect
Acrylonitrile	**Severe Effect**
Aero Lubriplate	**Severe Effect**

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Aerosafe 2300 ---------- No Effect
Aerosafe 2300W ---------- No Effect
Aeroshell 17 Grease ---------- **Severe Effect**
Aeroshell 1AC ---------- **Severe Effect**
Aeroshell 750 ---------- **Severe Effect**
Aeroshell 7A Grease ---------- **Severe Effect**
Air ---------- No Effect
Alcohol ---------- Minor Effect
Alcohol, Diacetone ---------- Minor Effect
Alcohol, Ethyl ---------- No Effect
Alcohol, Methyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Alkazene ---------- **Severe Effect**
Allyl Alcohol ---------- No Effect
Allyl Chloride ---------- **Severe Effect**
Almond Oil ---------- Minor Effect
Alum ---------- No Effect
Alum ---------- No Effect
Aluminum Acetate ---------- No Effect
Aluminum Acetate ---------- No Effect
Aluminum Bromide ---------- No Effect
Aluminum Chloride ---------- No Effect
Aluminum Fluoride ---------- Minor Effect
Aluminum Hydroxide ---------- No Effect
Aluminum Nitrate ---------- No Effect
Aluminum Nitride ---------- No Effect
Aluminum Phosphate ---------- No Effect
Aluminum Potassium Sulfate ---------- No Effect
Aluminum Salts ---------- No Effect
Aluminum Sodium Sulfate ---------- No Effect
Aluminum Sulfate ---------- No Effect
AMERSEP MP-7 ---------- No Effect
Amines ---------- Minor Effect
Ammonia Gas, Cold ---------- No Effect
Ammonia Gas, Hot ---------- Minor Effect
Ammonia, Anhydrous, Liquid ---------- No Effect

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Ammonium Bicarbonate ---------- Minor Effect
Ammonium Carbonate ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- No Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Metaphosphate ---------- No Effect
Ammonium Monophosphate ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Persulfate ---------- Minor Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Salts ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Thiocyanate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Borate ---------- **Severe Effect**
Amyl Chloride ---------- **Severe Effect**
Amyl Chloronaphthalene ---------- **Severe Effect**
Amyl Naphthalene ---------- **Severe Effect**
AN-O-3 Grade M ---------- **Severe Effect**
AN-O-366 ---------- **Severe Effect**
AN-O-6 ---------- **Severe Effect**
AN-VV-O-366b Hydr. Fluid ---------- **Severe Effect**
Anderol, L-774 (Di-Ester) ---------- **Severe Effect**
Anderol, L-826 (Di-Ester) ---------- **Severe Effect**
Anderol, L-829 (Di-Ester) ---------- **Severe Effect**

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ANG-25 (Di-Ester Base) (TG749) ---------- **Severe Effect**
ANG-25 (Glyceral Ester) ---------- **Severe Effect**
Anhydrous Ammonia ---------- No Effect
Anhydrous Hydrazine ---------- No Effect
Anhydrous Hydrogen Fluoride ---------- No Effect
Aniline ---------- Moderate Effect
Aniline Dyes ---------- Moderate Effect
Aniline Hydrochloride ---------- Minor Effect
Aniline Oil ---------- Minor Effect
Animal Fats & Oils ---------- Minor Effect
Animal Gelatin ---------- No Effect
Ansul Ether ---------- **Severe Effect**
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- Minor Effect
Arochlor 1254 ---------- Minor Effect
Aroclor ---------- **Severe Effect**
Aromatic Fuel 50% ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- **Severe Effect**
Aromatic Solvents ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- **Severe Effect**
Arsenious Acid ---------- No Effect
Askarel ---------- **Severe Effect**
Asphalt ---------- **Severe Effect**
ASTM, Red Motor Fuel A ---------- **Severe Effect**
ASTM, Red Motor Fuel B ---------- **Severe Effect**
ASTM, Red Motor Fuel C ---------- **Severe Effect**
ASTM, Ref #1 Oil ---------- **Severe Effect**
ASTM, Ref #2 Oil ---------- **Severe Effect**
ASTM, Ref #3 Oil ---------- **Severe Effect**
ASTM, Ref #4 Oil ---------- **Severe Effect**
ATL-857 ---------- **Severe Effect**

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Atlantic Dominion F ---------- **Severe Effect**
Aurex 903R (Mobil) ---------- **Severe Effect**
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- **Severe Effect**
Automotive Gasoline (Standard) ---------- **Severe Effect**
Aviation Gasoline ---------- **Severe Effect**
Bardol B ---------- **Severe Effect**
Barium Carbonate ---------- **Severe Effect**
Barium Chloride ---------- No Effect
Barium Chloride Dihydrate ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Salts ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Bayol 35 ---------- **Severe Effect**
Bayol D ---------- **Severe Effect**
Beer ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- Minor Effect
Benzene ---------- **Severe Effect**
Benzene Sulfonic Acid ---------- Moderate Effect
Benzine (Gasoline) ---------- No Effect
Benzochloride ---------- No Effect
Benzoic Acid ---------- Minor Effect
Benzol ---------- **Severe Effect**
Benzophenone ---------- Minor Effect
Benzoyl Chloride ---------- **Severe Effect**
Benzyl Alcohol ---------- Moderate Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- **Severe Effect**
Bichloride of Mercury ---------- No Effect

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Biphenyl ---------- **Severe Effect**
Bismuth Subcarbonate ---------- No Effect
Black Point 77 ---------- No Effect
Black Sulfate Liquor ---------- No Effect
Black Sulfate Liquor ---------- Minor Effect
Blast Furnace Gas ---------- **Severe Effect**
Bleach Liquor ---------- No Effect
Bleach Solutions ---------- No Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Blood (Meat Juices-Cold) ---------- No Effect
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- No Effect
Boron Fuels (HEF) ---------- **Severe Effect**
Brake Fluid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Bray GG - 130 ---------- **Severe Effect**
Brayco 719-R (VV-H-910) ---------- No Effect
Brayco 885 (Mil-L-6085A) ---------- **Severe Effect**
Brayco 910 ---------- No Effect
Bret 710 ---------- No Effect
Brine ---------- No Effect
Brom-113 ---------- **Severe Effect**
Brom-114 ---------- **Severe Effect**
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Pentafluoride ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Anhydrous ---------- Moderate Effect
Bromobenzene ---------- **Severe Effect**
Bromochloro Trifluoroethane ---------- **Severe Effect**
Bromochloromethane ---------- Minor Effect
Bronzing Liquid ---------- Minor Effect
Bunker Oil (Fuel) #5,#6 & C ---------- **Severe Effect**
Butadiene ---------- Moderate Effect

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Butane ---------- **Severe Effect**
Butane, 2,2-Dimethyl ---------- **Severe Effect**
Butane, 2,3-Dimethyl ---------- **Severe Effect**
Butanol ---------- Minor Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- Minor Effect
Butyl Acetyl Ricinoleate ---------- Moderate Effect
Butyl Acrylate ---------- **Severe Effect**
Butyl Alcohol ---------- Minor Effect
Butyl Amine ---------- **Severe Effect**
Butyl Benzoate ---------- Minor Effect
Butyl Butyrate ---------- No Effect
Butyl Carbitol ---------- No Effect
Butyl Cellosolve ---------- Minor Effect
Butyl Cellosolve Adipate ---------- Minor Effect
Butyl Oleate ---------- Moderate Effect
Butyl Stearate ---------- Moderate Effect
Butylamine FC75 (Fluorocarbon) ---------- No Effect
Butylene ---------- **Severe Effect**
Butyraldehyde ---------- Moderate Effect
Butyric Acid ---------- Moderate Effect
Butyronitrile ---------- No Effect
Calcine Liquirs ---------- No Effect
Calcium Acetate ---------- No Effect
Calcium Acetate Hydrate ---------- No Effect
Calcium Acid Sulphate ---------- No Effect
Calcium Bisulfite ---------- **Severe Effect**
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Cyanide ---------- No Effect
Calcium Hydroxide ---------- Minor Effect
Calcium Hypochloride ---------- No Effect
Calcium Hypochlorite ---------- Minor Effect

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Calcium Nitrate ---------- No Effect
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- No Effect
Calcium Salts ---------- No Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Calcium Thiosulfate ---------- No Effect
Calgon ---------- No Effect
Caliche Liquors ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- Minor Effect
Capryl Alcohol ---------- **Severe Effect**
Carbamate ---------- Moderate Effect
Carbitol ---------- Moderate Effect
Carbolic Acid ---------- Moderate Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Dioxide ---------- Minor Effect
Carbon Dioxide, Dry ---------- Minor Effect
Carbon Dioxide, Wet ---------- Minor Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- Moderate Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Carbonate of Soda ---------- Minor Effect
Carbonic Acid ---------- Minor Effect
Casein ---------- No Effect
Castor Oil ---------- Minor Effect
Catsup ---------- No Effect
Cellosolve ---------- Moderate Effect
Cellosolve Acetate ---------- Minor Effect
Cellosolve Butyl ---------- Minor Effect
Celluguard ---------- No Effect
Cellulube Hydraulic Fluids ---------- No Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect

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Cellutherm 2505A ---------- **Severe Effect**
Cetane (Hexadecane) ---------- No Effect
China Wood Oil (Tung Oil) ---------- **Severe Effect**
Chloracetic Acid ---------- Minor Effect
Chlorate of Lime ---------- Minor Effect
Chlorextol ---------- **Severe Effect**
Chlorinated Lime ---------- No Effect
Chlorinated Lime, 35% (Bleach) ---------- No Effect
Chlorinated Salt Brine ---------- **Severe Effect**
Chlorinated Solvents, Dry ---------- **Severe Effect**
Chlorinated Solvents, Wet ---------- **Severe Effect**
Chlorine Dioxide ---------- Moderate Effect
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- Minor Effect
Chloroacetone ---------- No Effect
Chlorobenzene ---------- **Severe Effect**
Chlorobromomethane ---------- Minor Effect
Chlorobutadiene ---------- **Severe Effect**
Chlorodane ---------- **Severe Effect**
Chlorododecane ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorotoluene ---------- **Severe Effect**
Chlorox ---------- Minor Effect
Chocolate Syrup ---------- No Effect
Chrome Plating Solutions ---------- Minor Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- Minor Effect
Chromic Oxide .88 Wt. % ---------- Minor Effect
Cider (Apple Juice) ---------- No Effect
Circo Light Process Oil ---------- **Severe Effect**
Citric Acid ---------- No Effect
Citric Acid, 15% Solution ---------- No Effect

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Citric Acid, 15% Solution (Boiling) ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Citric Acid, Concentrated (Boiling) ---------- No Effect
Citric Oils ---------- Minor Effect
Coal Gas ---------- No Effect
Coal Tars ---------- **Severe Effect**
Cobalt Chloride ---------- Moderate Effect
Coconut Oil ---------- **Severe Effect**
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Coke Oven Gas ---------- No Effect
Coliche Liquors ---------- No Effect
Coolanol (Monsanto) ---------- **Severe Effect**
Copper Acetate ---------- No Effect
Copper Acetate, Saturated Solution ---------- No Effect
Copper Chloride ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Nitrate Hexahydrate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Salts ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Corn Oil ---------- Moderate Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- **Severe Effect**
Creosote, Coal-Tar ---------- **Severe Effect**
Creosote, Wood-Tar ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Crude Oil ---------- **Severe Effect**
Cumeme ---------- **Severe Effect**
Cutting Oil (Sulfur Base) ---------- **Severe Effect**

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Cutting Oil (Water Base) ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Cyclohexanol ---------- **Severe Effect**
Cyclohexanone ---------- Moderate Effect
Cyclopentane ---------- **Severe Effect**
Cymene ---------- **Severe Effect**
D.D.T. ---------- No Effect
De-Ionized Water ---------- No Effect
Decahydronaphthalene ---------- **Severe Effect**
Decalin ---------- **Severe Effect**
Decanal ---------- **Severe Effect**
Decane ---------- Moderate Effect
Denatured Alcohol ---------- No Effect
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- Moderate Effect
Dextron ---------- **Severe Effect**
Dextrose ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- **Severe Effect**
Di-Ester Synthetic Lubricants ---------- **Severe Effect**
Diacetone ---------- No Effect
Diacetone Alcohol ---------- Minor Effect
Diazinon ---------- **Severe Effect**
Dibenzyl Ether ---------- Moderate Effect
Dibenzyl Sebecate ---------- Moderate Effect
Dibromoethyl Benzene ---------- **Severe Effect**
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Ether ---------- **Severe Effect**
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- Moderate Effect
Dichloro Isopropyl Ether ---------- **Severe Effect**
Dichloro-Butane ---------- **Severe Effect**
Dicyclohexylamine ---------- **Severe Effect**
Diemethyl Formamide ---------- **Severe Effect**
Diesel Oil (Fuel ASTM #2) ---------- **Severe Effect**
Diester Synthetic Oils ---------- **Severe Effect**
Diethanol Amine ---------- Minor Effect

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Diethyl Amine ---------- Moderate Effect
Diethyl Aniline ---------- No Effect
Diethyl Benzene ---------- **Severe Effect**
Diethyl Ether ---------- **Severe Effect**
Diethyl Sebacate ---------- Moderate Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Glycol ---------- No Effect
Difluorodibromomethane ---------- Minor Effect
Diisobutyl Ketone ---------- Minor Effect
Diisobutylene ---------- **Severe Effect**
Diisodecyl Phthalate ---------- No Effect
Diisooctyl Sebecate ---------- Minor Effect
Diisopropyl Benzene ---------- **Severe Effect**
Diisopropyl Ketone ---------- No Effect
Dimethyl Aniline ---------- No Effect
Dimethyl Phthalate ---------- Moderate Effect
Dinitrotoluene ---------- **Severe Effect**
Dioctyl Phthalate ---------- Minor Effect
Dioctyl Sebecate ---------- Moderate Effect
Dioxalanes ---------- Minor Effect
Dioxane ---------- Minor Effect
Dioxolane (Dioxalans) ---------- Minor Effect
Dipentene ---------- **Severe Effect**
Diphenyl ---------- **Severe Effect**
Diphenyl Oxide ---------- Moderate Effect
Dipropylene Glycol ---------- Minor Effect
Dipsersing Oil #10 ---------- **Severe Effect**
Dowtherm (Biphenyl & Phenyl Ether) ---------- **Severe Effect**
Dowtherm A ---------- **Severe Effect**
Dowtherm E ---------- **Severe Effect**
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- **Severe Effect**
DTE Light Oil ---------- **Severe Effect**
Elco 28-EP Lubricant ---------- **Severe Effect**
Epichlorohydrin ---------- Minor Effect
Epoxy Resins ---------- No Effect

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Epsom Salts ---------- No Effect
Esam-6 Fluid ---------- No Effect
Esstic 42, 43 ---------- **Severe Effect**
Ethane ---------- **Severe Effect**
Ethanol ---------- No Effect
Ethanolamine ---------- Minor Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- Minor Effect
Ethyl Acetoacetate ---------- Moderate Effect
Ethyl Acrylate ---------- Moderate Effect
Ethyl Alcohol ---------- No Effect
Ethyl Amine ---------- No Effect
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzoate ---------- Moderate Effect
Ethyl Bromide ---------- Minor Effect
Ethyl Butyrate ---------- **Severe Effect**
Ethyl Caprylate ---------- **Severe Effect**
Ethyl Cellose ---------- Minor Effect
Ethyl Cellosolve ---------- Minor Effect
Ethyl Cellulose ---------- Minor Effect
Ethyl Chloride ---------- No Effect
Ethyl Chlorocarbonate ---------- **Severe Effect**
Ethyl Chloroformate ---------- **Severe Effect**
Ethyl Cyanide ---------- No Effect
Ethyl Ether ---------- **Severe Effect**
Ethyl Formate ---------- Moderate Effect
Ethyl Iodide ---------- **Severe Effect**
Ethyl Isobutyrate ---------- **Severe Effect**
Ethyl Mercaptan ---------- **Severe Effect**
Ethyl Oxalate ---------- **Severe Effect**
Ethyl Pentachlorobenzene ---------- **Severe Effect**
Ethyl Propionate ---------- **Severe Effect**
Ethyl Silicate ---------- No Effect
Ethylacrylic Acid ---------- Minor Effect
Ethylcyclopentane ---------- **Severe Effect**
Ethylene ---------- Moderate Effect

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Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- Moderate Effect
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- Minor Effect
Ethylene Glycol Monobutyl ---------- Minor Effect
Ethylene Glycol Monoethyl ---------- Minor Effect
Ethylene Glycol Monomethyl ---------- Minor Effect
Ethylene Glycol Monomethyl Ether ---------- Minor Effect
Ethylene Oxide ---------- **Severe Effect**
Ethylene Oxide (12%) & Freon 12 (80%) -------- Minor Effect
Ethylene Trichloride ---------- **Severe Effect**
Ethylidene Chloride ---------- **Severe Effect**
Ethylmorpholene Stannous Octoate (50/50 Mix) - Minor Effect
Fatty Acids ---------- **Severe Effect**
FC-43 Heptacosofluorotri-Butylamine FC75 ----- No Effect
Ferric Chloride ---------- No Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Ferrous Sulfate (Copperas) ---------- Minor Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluorinated Cyclic Ether ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluorine (Anhydrous) ---------- **Severe Effect**
Fluorine (Liquid) ---------- Moderate Effect
Fluorobenzene ---------- **Severe Effect**
Fluorocarbon Oil ---------- No Effect
Fluorolube ---------- No Effect

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Fluosilicic Acid ---------- Minor Effect
Formaldehyde ---------- No Effect
Formamide ---------- No Effect
Formic Acid ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- No Effect
Formic Acid (Dilute Hot) ---------- No Effect
Freon 11 ---------- **Severe Effect**
Freon 112 ---------- **Severe Effect**
Freon 113 ---------- **Severe Effect**
Freon 114 ---------- Moderate Effect
Freon 114B2 ---------- **Severe Effect**
Freon 115 ---------- No Effect
Freon 12 ---------- Minor Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- Minor Effect
Freon 21 ---------- **Severe Effect**
Freon 22 ---------- **Severe Effect**
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon T.F. ---------- **Severe Effect**
Freon, BF ---------- **Severe Effect**
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- **Severe Effect**
Freon, PCA ---------- **Severe Effect**
Fruit Juices ---------- No Effect
Fuel Oil ---------- **Severe Effect**
Fuming Sulphuric Acid (20/25% Oleum) --------- **Severe Effect**
Furan ---------- **Severe Effect**
Furfural ---------- Minor Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- Minor Effect
Furyl Carbinol ---------- Minor Effect

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Fusel Oil ---------- No Effect
Fyrquel 90,100,150m 220, 300,500 ---------- Minor Effect
Fyrquel A60 ---------- Minor Effect
Gallic Acid ---------- Minor Effect
Gasoline (Meter) ---------- **Severe Effect**
Gasoline (Petrol) ---------- **Severe Effect**
Gasoline (Unleaded) ---------- **Severe Effect**
Gelatin ---------- No Effect
Glacial Acetic Acid ---------- Minor Effect
Glauber's Salt ---------- Minor Effect
Glucose ---------- No Effect
Glue ---------- Minor Effect
Glycerine or Glycerol ---------- No Effect
Glycols ---------- No Effect
Grease (Petroleum Base) ---------- **Severe Effect**
Green Sulfate Liquor ---------- No Effect
Halothane ---------- **Severe Effect**
Halowax Oil ---------- **Severe Effect**
Hannifin Lube A ---------- **Severe Effect**
Heavy Water ---------- No Effect
HEF-2 (High Energy Fuel) ---------- **Severe Effect**
Helium ---------- No Effect
Heptane ---------- **Severe Effect**
Hexalin ---------- Moderate Effect
Hexanal ---------- Minor Effect
Hexane ---------- **Severe Effect**
Hexyl Alcohol ---------- Moderate Effect
Hexylene Glycol ---------- Moderate Effect
High Viscosity Lubricant, H2 ---------- No Effect
High Viscosity Lubricant, U4 ---------- No Effect
Hilo MS #1 ---------- No Effect
Houghto-Safe 1010, Phosphate Ester ---------- No Effect
Houghto-Safe 1055, Phosphate Ester ---------- No Effect
Houghto-Safe 1120, Phosphate Ester ---------- No Effect
Houghto-Safe 271 (Water & Glycol Base) ------- No Effect
Houghto-Safe 5040 (Water/Oil Emulsion) ------- **Severe Effect**

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Houghto-Safe 620Water/Glycol ---------- No Effect
Hydraulic Oil ---------- **Severe Effect**
Hydraulic Oils (Petroleum) ---------- **Severe Effect**
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid 40% ---------- No Effect
Hydrocarbons (Saturated) ---------- **Severe Effect**
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid 20% ---------- No Effect
Hydrocloric Acid 3 Molar ---------- No Effect
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- No Effect
Hydrofluoric Acid 65% or Less, Hot ---------- Minor Effect
Hydrofluoric Acid 65% or More, Cold ---------- Minor Effect
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid Anhydrous ---------- **Severe Effect**
Hydrofluoric Acid, (Conc) ---------- Moderate Effect
Hydrogen ---------- **Severe Effect**
Hydrogen Chloride Gas ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- Moderate Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide (Dilute) ---------- No Effect
Hydrogen Peroxide, 10% ---------- Minor Effect
Hydrogen Peroxide, 3% ---------- Minor Effect
Hydrogen Peroxide, 30% ---------- Minor Effect
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- No Effect
Hydrogen Sulfide Wet, Cold ---------- No Effect

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Hydrogen Sulfide Wet, Hot ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydrolube-Water/Ethylene Glycol ---------- No Effect
Hydroquinone ---------- **Severe Effect**
Hydyne ---------- No Effect
Hypochlorous Acid ---------- Minor Effect
Ink (Printers) ---------- No Effect
Iodine ---------- Minor Effect
Iodine Pentafluoride ---------- **Severe Effect**
Iodoform ---------- No Effect
Iso-Butyl N-Butyrate ---------- No Effect
Isoamyl Acetate ---------- Minor Effect
Isoamyl Alcohol ---------- No Effect
Isoamyl Chloride ---------- **Severe Effect**
Isobutyl Acetate ---------- Moderate Effect
Isobutyl Alcohol ---------- No Effect
Isobutyric Acid ---------- No Effect
Isododecane ---------- **Severe Effect**
Isooctane ---------- **Severe Effect**
Isophorone ---------- Moderate Effect
Isopropanol ---------- No Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- Minor Effect
Isopropyl Chloride ---------- **Severe Effect**
Isopropyl Ether ---------- **Severe Effect**
Jet Fuels (JP1 to JP6) ---------- **Severe Effect**
JP-1 ---------- **Severe Effect**
JP-2 ---------- **Severe Effect**
JP-3 (Mil-J-5624) ---------- **Severe Effect**
JP-4 (Mil-J-5624) ---------- **Severe Effect**
JP-5 (Mil-J-5624) ---------- **Severe Effect**
JP-6 (Mil-J-25656) ---------- **Severe Effect**
JP-X (Mil-F-25604) ---------- **Severe Effect**

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E.P.D.M. (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kel F Liquids	No Effect
Kerosene	**Severe Effect**
Ketones	No Effect
Keystone #87HX-Grease	**Severe Effect**
Lacquer Solvents	**Severe Effect**
Lacquers	**Severe Effect**
Lactam-Amino Acids	Minor Effect
Lactic Acid	No Effect
Lactic Acid 10% Solution (Boiling)	No Effect
Lactic Acid, 5% Solution	No Effect
Lard Oil	**Severe Effect**
Lard Oil (Cold)	**Severe Effect**
Lard Oil (Hot)	**Severe Effect**
Lavender Oil	**Severe Effect**
Lavender Oil	Minor Effect
Lead Acetate	No Effect
Lead Nitrate	No Effect
Lead Sulfamate	No Effect
Lead Sulphamate	No Effect
Lehigh X1169	**Severe Effect**
Lehigh X1170	**Severe Effect**
Light Grease	**Severe Effect**
Ligroin	**Severe Effect**
Lime	No Effect
Lime Bleach	No Effect
Lime Slurries	No Effect
Lime Sulfur	No Effect
Lime, Soda	No Effect
Limonene	**Severe Effect**
Lindol	No Effect
Linoleic Acid	**Severe Effect**
Linseed Oil	**Severe Effect**

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Liquid Oxygen ---------- **Severe Effect**
Liquid Petroleum Gas (LPG) ---------- **Severe Effect**
Liquimoly ---------- **Severe Effect**
Lubricating Oil Di-Ester ---------- **Severe Effect**
Lubricating Oil Petroleum Base ---------- **Severe Effect**
Lubricating Oil SAE10,20,30,40,50 ---------- **Severe Effect**
Lubricating Oils ---------- **Severe Effect**
Lye ---------- No Effect
Magnesium Carbonate ---------- Moderate Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Salts ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfite ---------- No Effect
Malathion ---------- **Severe Effect**
Maleic Acid ---------- **Severe Effect**
Maleic Anhydride ---------- **Severe Effect**
Malic Acid ---------- **Severe Effect**
Malt Beverages ---------- No Effect
Manganese Chloride ---------- No Effect
Maple Sugar Liquors ---------- No Effect
Mayonnaise ---------- **Severe Effect**
MCS 312 ---------- **Severe Effect**
MCS 352 ---------- No Effect
MCS 463 ---------- No Effect
Mercuric Chloride ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercurous Nitrate ---------- No Effect
Mercury ---------- No Effect
Mesityl Oxide ---------- Minor Effect
Methane ---------- **Severe Effect**
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- Moderate Effect
Methyl Acetoacetate ---------- Minor Effect

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Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- Moderate Effect
Methyl Acrylic Acid ---------- Moderate Effect
Methyl Alcohol ---------- No Effect
Methyl Amine ---------- No Effect
Methyl Amyl Acetate ---------- **Severe Effect**
Methyl Aniline ---------- No Effect
Methyl Benzoate ---------- **Severe Effect**
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Butyrate ---------- **Severe Effect**
Methyl Carbonate ---------- **Severe Effect**
Methyl Cellosolve ---------- Minor Effect
Methyl Cellulose ---------- Minor Effect
Methyl Chloride ---------- Moderate Effect
Methyl Chloroformate ---------- **Severe Effect**
Methyl Cyclopentane ---------- **Severe Effect**
Methyl D-Bromide ---------- **Severe Effect**
Methyl Ether ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Ethyl Ketone Peroxide ---------- **Severe Effect**
Methyl Formate ---------- Moderate Effect
Methyl Hexane ---------- **Severe Effect**
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- Moderate Effect
Methyl Methacrylate ---------- **Severe Effect**
Methyl Oleate ---------- Moderate Effect
Methyl Propyl Ketone ---------- Minor Effect
Methyl Salicylate ---------- Moderate Effect
Methylamine ---------- No Effect
Methylene Bromide ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- No Effect
Mine Water ---------- Minor Effect
Mineral Oils ---------- **Severe Effect**

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Mixed Acids ---------- Minor Effect
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- **Severe Effect**
MLO-7557 ---------- **Severe Effect**
MLO-8200 Hydr. ---------- **Severe Effect**
MLO-8515 ---------- **Severe Effect**
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- **Severe Effect**
Monochlorobenzene ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- **Severe Effect**
Monoethanolamine ---------- Minor Effect
Monomethyl Hydrazine ---------- No Effect
Monomethylether ---------- No Effect
Mononitrotoluene & Dinitrotoluene (40/60 Mix) **Severe Effect**
Monovinyl Acetylene ---------- No Effect
Mustard ---------- No Effect
N,N-Dimethylaniline ---------- Moderate Effect
n-Amyl Amine ---------- **Severe Effect**
n-Butyl Acetate ---------- **Severe Effect**
N-Butyl Benzoate ---------- No Effect
N-Butyl Ether ---------- **Severe Effect**
N-Hexaldehyde ---------- No Effect
n-Hexane ---------- **Severe Effect**
n-Hexane 1 ---------- **Severe Effect**
N-Hexene-1 ---------- **Severe Effect**
n-Octane ---------- **Severe Effect**
N-Pentane ---------- **Severe Effect**
n-Propyl Acetate ---------- No Effect
N-Propyl Acetone ---------- No Effect
n-Propyl Nitrate ---------- Minor Effect
Napalm ---------- **Severe Effect**
Naphtha Coal Tar (Benzol) ---------- **Severe Effect**
Naphtha, Petroleum ---------- **Severe Effect**
Naphthalene ---------- **Severe Effect**
Naphthoic Acid ---------- **Severe Effect**

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Naptha ---------- **Severe Effect**
Naptha-Coal Tar (Benzol) ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Napthenic Acid ---------- **Severe Effect**
Natural Gas ---------- **Severe Effect**
Neatsfoot Oil ---------- Moderate Effect
Neon ---------- No Effect
Neosol ---------- Minor Effect
Neville Acid ---------- Moderate Effect
Nickel Acetate ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Salts ---------- No Effect
Nickel Sulfate ---------- No Effect
Niter Coke ---------- **Severe Effect**
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- Minor Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 25% ---------- Minor Effect
Nitric Acid, 35% ---------- Moderate Effect
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 70% ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitroethane ---------- Moderate Effect
Nitrogen ---------- No Effect
Nitrogen Tetroxide ---------- **Severe Effect**
Nitromethane ---------- Moderate Effect
Nitropropane ---------- Minor Effect

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O-Chloronaphthalene ---------- No Effect
o-Chlorophenol ---------- **Severe Effect**
O-Chlorphenol ---------- **Severe Effect**
o-Dichlorobenzene ---------- **Severe Effect**
Octachlorotoluene ---------- **Severe Effect**
Octadecane ---------- **Severe Effect**
Octyl Alcohol ---------- No Effect
Oils, Crude ---------- Minor Effect
Oleic Acid ---------- Moderate Effect
Olein ---------- **Severe Effect**
Oleum (Fuming Sulfuric Acid) ---------- **Severe Effect**
Oleum Spirits ---------- **Severe Effect**
Olive Oil ---------- **Severe Effect**
Oronite 8200 ---------- **Severe Effect**
Oronite 8515 ---------- **Severe Effect**
Ortho-Dichlorobenzene ---------- **Severe Effect**
Orthochloro Ethyl Benzene ---------- **Severe Effect**
OS 45 Type III (OS45) ---------- **Severe Effect**
OS 45 Type IV (OS45-1) ---------- **Severe Effect**
OS 70 ---------- **Severe Effect**
Oxalic Acid ---------- No Effect
Oxalic Acid, 10% Solution ---------- No Effect
Oxalic Acid, 10% Solution (Boiling) ---------- Minor Effect
Oxalic Acid, 5% (Hot and Cold) ---------- No Effect
Oxygen, 200-400 degrees F ---------- **Severe Effect**
Oxygen, Cold ---------- No Effect
Ozone ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- No Effect
P-Cymene ---------- No Effect
P-Dichlorobenzene ---------- **Severe Effect**
P-Tertiary Butyl Catechol ---------- Minor Effect
Paint Thinner, DUCO ---------- **Severe Effect**
Palm Oil ---------- No Effect
Palmitic Acid ---------- Minor Effect
Para-Dichlorobenzene ---------- **Severe Effect**

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Paraffins (Paraffin Oil) ---------- **Severe Effect**
Paraldehyde ---------- No Effect
Paralketone ---------- **Severe Effect**
Peanut Oil ---------- **Severe Effect**
Pentachloroethane ---------- **Severe Effect**
Pentachlorophenol ---------- **Severe Effect**
Pentane, 2 Methyl ---------- **Severe Effect**
Pentane, 2-4, Dimethyl ---------- **Severe Effect**
Pentane, 3-Methyl ---------- **Severe Effect**
Pentanedione-2,4 ---------- No Effect
Penthane ---------- **Severe Effect**
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- No Effect
Petroleum Ether ---------- No Effect
Petroleum Oil, Above 250 degrees F ---------- **Severe Effect**
Petroleum Oil, Below 250 degrees F ---------- **Severe Effect**
Petroleum Oil, Crude ---------- **Severe Effect**
Petroleum Oils (Sour) ---------- **Severe Effect**
Phenethyl Alcohol ---------- Minor Effect
Phenol ---------- Moderate Effect
Phenyl Acetate ---------- Minor Effect
Phenyl Ethyl Ether ---------- **Severe Effect**
Phenyl Hydrazine ---------- **Severe Effect**
Phenylbenzene ---------- **Severe Effect**
Phorone ---------- Moderate Effect
Phosphate Esters ---------- No Effect
Phosphoric Acid ---------- Minor Effect
Phosphoric Acid (Conc) ---------- Minor Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 10% Solution (Hot) ---------- No Effect
Phosphoric Acid, 20% ---------- No Effect
Phosphoric Acid, 3 Molar ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- Minor Effect

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Phosphoric Acid, 85% Solution ---------- Minor Effect
Phosphorus Trichloride ---------- No Effect
Pickling Solution ---------- **Severe Effect**
Picric Acid ---------- Minor Effect
Picric Acid, H2O Solution ---------- Minor Effect
Picric Acid, Molten ---------- Minor Effect
Pine Oil ---------- **Severe Effect**
Pinene ---------- **Severe Effect**
Piperidine ---------- **Severe Effect**
Pitch ---------- No Effect
Plating Solution, Chrome ---------- Moderate Effect
Plating Solution, Others ---------- No Effect
Pneumatic Service ---------- No Effect
Polyvinyl Acetate Emulsion ---------- No Effect
Potassium Acetate ---------- No Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cupro Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Salts ---------- No Effect
Potassium Silicate ---------- No Effect

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Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- No Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- **Severe Effect**
Producer Gas ---------- **Severe Effect**
Propane ---------- **Severe Effect**
Propane (Liquefied) ---------- **Severe Effect**
Propane Propionitrile ---------- **Severe Effect**
Propionic Acid ---------- No Effect
Propyl Acetate ---------- Minor Effect
Propyl Alcohol ---------- No Effect
Propyl Nitrate ---------- Minor Effect
Propylene ---------- **Severe Effect**
Propylene Dichloride ---------- **Severe Effect**
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- Moderate Effect
Pydraul ---------- Minor Effect
Pydraul 10E, 29 ELT ---------- No Effect
Pydraul 115E ---------- No Effect
Pydraul 230E, 312C, 540C ---------- **Severe Effect**
Pydraul 30E, 50E, 65E, 90E ---------- No Effect
Pyranol, Transformer Oil ---------- **Severe Effect**
Pyridine ---------- Moderate Effect
Pyridine Oil ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Moderate Effect
Pyrolube ---------- Minor Effect
Pyrrole ---------- **Severe Effect**
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- **Severe Effect**
Rape-Seed Oil ---------- No Effect

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Red Line 100 Oil ---------- **Severe Effect**
Red Oil (Mil-H-5606) ---------- **Severe Effect**
Resins and Rosins ---------- **Severe Effect**
RJ-1 (Mil-F-25558) ---------- **Severe Effect**
Rosin ---------- **Severe Effect**
Rotenone ---------- No Effect
RP-1 (Mil-R-25576) ---------- **Severe Effect**
Rum ---------- No Effect
Sal Soda ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- **Severe Effect**
Sea Water ---------- No Effect
Sewage ---------- Moderate Effect
Shellac ---------- **Severe Effect**
Shellac (Bleached) ---------- **Severe Effect**
Shellac (Orange) ---------- **Severe Effect**
Silicate Esters ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Nitrate ---------- No Effect
Skelly, Solvent B,C,E ---------- **Severe Effect**
Skydrol 500 ---------- No Effect
Skydrol 7000 ---------- No Effect
Skydrol Hydraulic Fluid ---------- No Effect
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect

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Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Dichromate ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Fluoride, 5% ---------- No Effect
Sodium Hexametaphosphate ---------- Minor Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 3 Molar ---------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- Minor Effect
Sodium Hydroxide, 70% (Cold) ---------- Minor Effect
Sodium Hypochlorite ---------- Moderate Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- No Effect
Sodium Phosphate (Dibasic) ---------- No Effect
Sodium Phosphate (Mono) ---------- No Effect
Sodium Phosphate (Tribasic) ---------- No Effect
Sodium Salts ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- No Effect

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Sodium Sulfite, 10% Solution @ 150 F --------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Soybean Oil ---------- Moderate Effect
SP-90X ---------- No Effect
Spry ---------- Minor Effect
SR-10 Fuel ---------- **Severe Effect**
SR-6 Fuel ---------- **Severe Effect**
Stannic Chloride ---------- Minor Effect
Stannic Chloride, 50% ---------- Minor Effect
Stannous Chloride ---------- Minor Effect
Stanous Chloride, 15% ---------- No Effect
Starch ---------- Minor Effect
Steam, Above 350 F ---------- **Severe Effect**
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- Minor Effect
Steric Acid ---------- Minor Effect
Stoddard Solvent ---------- **Severe Effect**
Styrene ---------- **Severe Effect**
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfite Liquors ---------- Moderate Effect
Sulfur ---------- No Effect
Sulfur (Molten) ---------- **Severe Effect**
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Liquefied Under Pressure ----- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Hexafluoride ---------- No Effect
Sulfur Trioxide ---------- Moderate Effect
Sulfuric Acid (Conc) ---------- Moderate Effect

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Sulfuric Acid (Fuming) ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 25% ---------- Minor Effect
Sulfuric Acid, 3 Molar ---------- Minor Effect
Sulfuric Acid, 50% ---------- Minor Effect
Sulfuric Acid, 60% ---------- Minor Effect
Sulfuric Acid, 75% ---------- Moderate Effect
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulfuric Acid, 95% ---------- Moderate Effect
Sulfurous Acid ---------- Moderate Effect
Sulphuric Acid, Concentrated Solution -------- Minor Effect
Syrup ---------- No Effect
Tall Oil (Liquid Rosin) ---------- **Severe Effect**
Tannic Acid ---------- Moderate Effect
Tar and Tar Oil ---------- Minor Effect
Tar, Bituminous ---------- **Severe Effect**
Tarpenes ---------- **Severe Effect**
Tartaric Acid ---------- Minor Effect
Terpineol ---------- Moderate Effect
Tertiary Butyl Alcohol ---------- Minor Effect
Tertiary Butyl Mercaptan ---------- **Severe Effect**
Tetra Bromomethane ---------- **Severe Effect**
Tetrabutyl Titanate ---------- Minor Effect
Tetrachloroethane ---------- **Severe Effect**
Tetrachloroethylene ---------- **Severe Effect**
Tetraethyl Lead ---------- **Severe Effect**
Tetraethyl Lead "Blend" ---------- **Severe Effect**
Tetrahydrofuran ---------- Moderate Effect
Tetrahydronaphthalene ---------- **Severe Effect**
Tetralin ---------- **Severe Effect**
THIO-RED ---------- No Effect
Thiokol TP-90B ---------- No Effect
Thiokol TP-95 ---------- No Effect
Thionyl Chloride ---------- **Severe Effect**
Thiophene ---------- **Severe Effect**
Titanium Tetrachloride ---------- **Severe Effect**

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Toluene ---------- **Severe Effect**
Toluene Diisocyanate ---------- No Effect
Toluene Diisocyanide ---------- Minor Effect
Toluol ---------- **Severe Effect**
Transformer Oil ---------- **Severe Effect**
Transmission Fluid ---------- **Severe Effect**
Transmission Fluid, Type A ---------- **Severe Effect**
Triacetin ---------- No Effect
Triallyl Phosphate ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributoxyl Ethyl Phosphate ---------- No Effect
Tributyl Mercaptan ---------- No Effect
Tributyl Phosphate ---------- Moderate Effect
Trichloroacetic Acid ---------- Moderate Effect
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Trichlorotrifluoroethane (Freon 113) --------- **Severe Effect**
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- Minor Effect
Trifluoroethane ---------- **Severe Effect**
Trimethylene Glycol ---------- No Effect
Trinitrotoluene ---------- **Severe Effect**
Trioctyl Phosphate ---------- No Effect
Tripoly Phosphate ---------- No Effect
Tung Oil ---------- **Severe Effect**
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- Minor Effect
Turpentine ---------- **Severe Effect**
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- **Severe Effect**
Type 11 Fuel (Mil-S-3136) ---------- **Severe Effect**
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) **Severe Effect**
Univis 40 (Hydr. Fluid) ---------- **Severe Effect**
Univolt #35 (Mineral Oil) ---------- **Severe Effect**
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Valeric Acid ---------- No Effect

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Varnish ---------- **Severe Effect**
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- No Effect
Vinyl Chloride ---------- Moderate Effect
VV-H-910 ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Waxes ---------- **Severe Effect**
Wemco C ---------- **Severe Effect**
Whiskey ---------- No Effect
White Oil ---------- **Severe Effect**
White Pine Oil ---------- **Severe Effect**
White Sulfate Liquor ---------- No Effect
Wines ---------- No Effect
Womar Salt ---------- No Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- **Severe Effect**
Xylidenes, Mixed, Aromatic ---------- **Severe Effect**
Xylidines ---------- **Severe Effect**
Zeolite ---------- No Effect
Zinc Acetate ---------- No Effect
Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Nitrate ---------- Minor Effect
Zinc Salts ---------- No Effect
Zinc Sulfate ---------- No Effect
Zinc Sulfate, 5% Solution ---------- No Effect

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Zinc Sulfate, Saturated Solution ---------- No Effect

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ECTFE

Chemical Compatibility

CHEMICAL	EFFECT
Acetate Solvents	No Effect
Acetic Acid	No Effect
Acetic Acid, 95%	No Effect
Acetone	No Effect
Alcohol	No Effect
Alum	No Effect
Aluminum Chloride	No Effect
Ammonia	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonia, Aqueous 30%	No Effect
Ammonium Chloride	No Effect
Ammonium Dihydrogen Phosphate	No Effect
Ammonium Hydroxide	No Effect
Ammonium Sulfate	No Effect
Barium Chloride	No Effect
Barium Fluoride	No Effect
Barium Nitrate	No Effect
Barium Sulfate	No Effect
Benzoic Acid	No Effect
Boric Acid	No Effect
Brake Fluid	No Effect
Butyl Alcohol	No Effect
Calcium Bisulfite	No Effect
Calcium Chloride	No Effect
Calcium Hydroxide	No Effect
Calcium Hydroxide, 30% Boiling	No Effect
Calcium Hypochlorite, 5% 70 F	No Effect
Carbon Bisulfide	No Effect
Carbon Disulfide	No Effect
Carbon Tetrachloride	No Effect
Caustic Liquid	No Effect
Caustic Soda	No Effect

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Chlorinated Solvents ---------- No Effect
Chlorinated Water, Saturate ---------- No Effect
Chlorine ---------- No Effect
Chlorine Trifluoride ---------- No Effect
Chloroacetic Acid ---------- No Effect
Chromic Acid ---------- No Effect
Chromic Acid, 10% ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, Hot Conc. ---------- No Effect
Copper Sulfate ---------- No Effect
Corn Oil ---------- No Effect
Cyclohexane ---------- No Effect
Detergent Solutions ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Cellosolve ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ferric Chloride ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluorine ---------- No Effect
Formaldehyde ---------- No Effect
Formaldehyde, 40% ---------- No Effect
Freon ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydrocarbons, Pure ---------- No Effect
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrofluoric Acid ---------- No Effect
Hydrofluoric Acid, 50% ---------- No Effect

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Hydrofluosilicic Acid ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Sulfide ---------- No Effect
Iodine ---------- No Effect
Isopar G ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Lacquer Solvents ---------- No Effect
Lime, 30% ---------- No Effect
Lubricating Oils ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Sulfide ---------- No Effect
Manganese Chloride ---------- No Effect
Manganese Sulfate ---------- No Effect
Mercuric Sulfate ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Mineral Oils ---------- No Effect
Mustard ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Oxide ---------- No Effect
Oil - No. 1 ASTM ---------- No Effect
Oil - No. 3 ASTM ---------- No Effect
Phosphoric Acid ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Photographic Developers ---------- No Effect
Photographic Fixer ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Dichromate 40% ---------- No Effect

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Potassium Hydroxide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propylene Glycol ---------- No Effect
Saline Solution - All Conc. ---------- No Effect
Silicone Oils ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hypochlorite ---------- No Effect
Sodium Iodide ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Soft Drink Syrups ---------- No Effect
Solvent - Toner Kerosene Base ---------- No Effect
Soybean Oil ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide ---------- No Effect
Sulfur Trioxide ---------- No Effect
Sulfuric Acid ---------- No Effect
Sulfurous Acid ---------- No Effect
Toluene ---------- No Effect
Tributyl Phosphate ---------- No Effect
Trichloroethane ---------- No Effect
Turpentine ---------- No Effect

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Vegetable Oils ---------- No Effect
Vinegar ---------- No Effect
Water, Fresh ---------- No Effect
Water, Glycol ---------- No Effect
Wetting Agents ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Sulfate ---------- No Effect

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Elco 28-EP Lubricant

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Epichlorohydrin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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EPOXY

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetamide	No Effect
Acetate Solvents	No Effect
Acetic Acid	Minor Effect
Acetic Acid, 20%	Minor Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 80%	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	No Effect
Acetone	Minor Effect
Acetyl Chloride	No Effect
Acetylene (Ethyne)	No Effect
Acrylonitrile	No Effect
Alcohol	No Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Alum	Minor Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Fluoride	No Effect
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 10%	No Effect
Aluminum Potassium Sulfate (Alum), 100%	No Effect

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Aluminum Sulfate ---------- No Effect
Amines ---------- No Effect
Ammonia ---------- Minor Effect
Ammonia, 10% ---------- Minor Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Bifluoride, 10% ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Casenite ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Aniline ---------- No Effect
Aniline Oil ---------- No Effect
Anise Oil ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Arochlor 1248 ---------- No Effect
Aromatic Hydrocarbons ---------- No Effect
Arsenic Acid ---------- No Effect
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Cyanide ---------- No Effect
Barium Fluoride ---------- Minor Effect

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Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- Minor Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- No Effect
Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzoic Acid ---------- Minor Effect
Benzol ---------- No Effect
Bone Oil ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- Minor Effect
Brake Fluid ---------- No Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ Minor Effect
Brass Plating, Reg Brass Bath 100 F ---------- Minor Effect
Brewery Slop ---------- No Effect
Bromine, Liquid ---------- Moderate Effect
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- Minor Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - Moderate Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butter ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- No Effect
Cadmium Plating, Cyanide Bath 90 F ---------- Minor Effect
Cadmium Plating, Fluoborate Bath 100 F ------- Minor Effect
Calcium Bisulfate ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- Minor Effect

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Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide ---------- Minor Effect
Calcium Hypochlorite ---------- No Effect
Calcium Sulfate ---------- No Effect
Calgon ---------- No Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Caustic Soda ---------- Minor Effect
Chloracetic Acid ---------- Minor Effect
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- No Effect
Chlorinated Solvents ---------- Minor Effect
Chlorinated Water, Saturate ---------- Minor Effect
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- Minor Effect
Chlorine, Dry ---------- **Severe Effect**
Chloroacetic Acid ---------- Minor Effect
Chlorobenzene ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- Moderate Effect
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chromic Acid ---------- Minor Effect
Chromic Acid, 10% ---------- Moderate Effect
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- Moderate Effect

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Chromium Plating, Barrel Chrome Bath 95 F ---- **Severe Effect**
Chromium Plating, Black Chrome Bath 115 F ---- **Severe Effect**
Chromium Plating, Chromic-Sulfuric Bath 130 F **Severe Effect**
Chromium Plating, Fluoride Bath 130 F -------- **Severe Effect**
Chromium Plating, Fluosilicate Bath 95 F ----- **Severe Effect**
Cider (Apple Juice) ------------------------- No Effect
Citric Acid --------------------------------- Minor Effect
Citric Oils --------------------------------- No Effect
Clove Oil ----------------------------------- No Effect
Coconut Oil --------------------------------- No Effect
Cod Liver Oil ------------------------------- No Effect
Coffee -------------------------------------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- Minor Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- Minor Effect
Copper Chloride ----------------------------- No Effect
Copper Cyanide ------------------------------ Moderate Effect
Copper Fluoborate --------------------------- No Effect
Copper Nitrate ------------------------------ No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- **Severe Effect**
Copper Plating (Acid),Copper Sulfate Bath R.T. **Severe Effect**
Copper Plating (Cyanide),Hi Speed Bath 180 F - Moderate Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ------------- Moderate Effect
Copper Sulfate ------------------------------ Minor Effect
Copper Sulfate, 5% -------------------------- No Effect
Corn Oil ------------------------------------ Minor Effect
Cottonseed Oil ------------------------------ No Effect
Cream --------------------------------------- No Effect
Cresol -------------------------------------- No Effect
Cresylic Acid ------------------------------- No Effect
Cyanic Acid --------------------------------- No Effect
Cyclohexane --------------------------------- Minor Effect
Cycolic Acid -------------------------------- No Effect
Detergent Solutions ------------------------- Minor Effect
Dichlorethane ------------------------------- No Effect

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Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Glycol ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dyes ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- Minor Effect
Ethyl Cellosolve ---------- Minor Effect
Ethyl Chloride ---------- Minor Effect
Ethyl Sulfate ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- Minor Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- Minor Effect
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Fluboric Acid ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- Moderate Effect
Formaldehyde ---------- Minor Effect
Formaldehyde, 40% ---------- No Effect
Formic Acid ---------- Minor Effect
Freon ---------- Minor Effect
Freon 11 ---------- No Effect
Freon 113 ---------- No Effect
Freon 12 ---------- No Effect
Freon 22 ---------- No Effect
Freon T.F. ---------- No Effect

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Fruit Juices ---------- Minor Effect
Fuel Oil ---------- Minor Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Gasoline (Petrol) ---------- Minor Effect
Gelatin ---------- No Effect
Ginger Oil ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- Minor Effect
Gold Monocyanide ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- **Severe Effect**
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- No Effect
Grease ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid, 20% ---------- Minor Effect
Hydrochloric Acid ---------- Moderate Effect
Hydrochloric Acid (Dry Gas) ---------- No Effect
Hydrochloric Acid, 100% ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrocyanic Acid (Gas 10%) ---------- No Effect
Hydrofluoric Acid ---------- Minor Effect
Hydrofluoric Acid, 100% ---------- No Effect
Hydrofluoric Acid, 20% ---------- Minor Effect
Hydrofluoric Acid, 75% ---------- Moderate Effect

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Hydrofluosilicic Acid ---------- Moderate Effect
Hydrofluosilicic Acid, 20% ---------- Moderate Effect
Hydrogen Gas ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- **Severe Effect**
Hydrogen Peroxide, 30% ---------- Minor Effect
Hydrogen Sulfide ---------- No Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroxyacetic Acid, 70% ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- No Effect
Iodine ---------- No Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - **Severe Effect**
Iron Plating, Ferrous Chloride Bath 190 F ---- **Severe Effect**
Iron Plating, Ferrous Sulfate Bath 150 F ----- **Severe Effect**
Iron Plating, Fluoborate Bath 145 F ---------- **Severe Effect**
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- **Severe Effect**
Isopropyl Acetate ---------- No Effect
Isotane ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- Moderate Effect
Lacquer Solvents ---------- Minor Effect
Lacquers ---------- No Effect
Lactic Acid ---------- No Effect
Lard ---------- No Effect
Latex ---------- No Effect
Lead Acetate ---------- No Effect
Lead Fluoborate Plating ---------- No Effect
Lead Sulfamate ---------- No Effect
Lemon Oil ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- No Effect
Linseed Oil ---------- No Effect

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Lubricants ---------- No Effect
Lubricating Oils ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- **Severe Effect**
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfide ---------- Minor Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Manganese Chloride ---------- **Severe Effect**
Manganese Sulfate ---------- Minor Effect
Mash ---------- No Effect
Mayonnaise ---------- No Effect
Melamine ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercuric Sulfate ---------- Minor Effect
Mercury ---------- No Effect
Methyl Acetone ---------- Moderate Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol, 10% ---------- No Effect
Methyl Bromide ---------- Minor Effect
Methyl Cellosolve ---------- Moderate Effect
Methyl Chloride ---------- Minor Effect
Methyl Dichloride ---------- No Effect
Methyl Ethyl Ketone ---------- Minor Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methyl Methacrylate ---------- No Effect
Methylamine ---------- No Effect
Methylene Chloride ---------- No Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect

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Mustard ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Nickel Chloride ---------- Minor Effect
Nickel Plating, Electroless 200 F ---------- Minor Effect
Nickel Plating, Fluoborate 100-170 F --------- **Severe Effect**
Nickel Plating, High Chloride 130-160 F ------ **Severe Effect**
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- **Severe Effect**
Nickel Sulfate ---------- Minor Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- Minor Effect
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Oxide ---------- **Severe Effect**
Nitrobenzene ---------- Minor Effect
Oil - No. 1 ASTM ---------- No Effect
Oil - No. 3 ASTM ---------- No Effect
Oleic Acid ---------- No Effect
Oleum ---------- No Effect
Oleum, 25% ---------- **Severe Effect**
Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oxalic Acid ---------- No Effect
Palm Oil ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Peanut Oil ---------- No Effect
Penthane ---------- No Effect
Peppermint Oil ---------- No Effect
Perchloroethylene ---------- No Effect
Petrolatum ---------- No Effect
Phenol (Carbolic Acid) ---------- Minor Effect
Phenol, 10% ---------- Moderate Effect
Phosphoric Acid ---------- Minor Effect
Phosphoric Acid (Crude) ---------- No Effect

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Phosphoric Anhydride (Molten) ---------- No Effect
Photographic Developers ---------- Minor Effect
Photographic Solutions ---------- No Effect
Picric Acid ---------- No Effect
Pine Oil ---------- No Effect
Plating Solutions, Antimony ---------- Minor Effect
Plating Solutions, Arsenic ---------- Minor Effect
Potash ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Chromate ---------- Moderate Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Nitrate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Propane (Liquefied) ---------- No Effect
Propylene Glycol ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- No Effect
Rape-Seed Oil ---------- No Effect
Rhodium Plating 120 F ---------- No Effect
Rosin ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Salad Dressing ---------- No Effect
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect

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Silicone ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- Moderate Effect
Sodium Cyanide ---------- Minor Effect
Sodium Fluoride ---------- No Effect
Sodium Hydrosulfite ---------- Minor Effect
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hypochlorite ---------- Minor Effect
Sodium Hypochlorite (to 20%) ---------- Minor Effect
Sodium Hyposulfate ---------- Moderate Effect
Sodium Iodide ---------- Minor Effect
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate ---------- No Effect
Sodium Nitrate ---------- Minor Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- Minor Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect

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Sodium Sulfite ---------- Minor Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- Minor Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- Minor Effect
Stannic Fluoborate ---------- No Effect
Stannous Chloride ---------- Minor Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Liquors ---------- No Effect
Sulfur Chloride ---------- Moderate Effect
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Trioxide ---------- No Effect
Sulfuric Acid ---------- Moderate Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfurous Acid ---------- Minor Effect
Sulfuryl Chloride ---------- No Effect
Syrup ---------- No Effect
Tallow ---------- No Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tanning Oil ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tin-Fluoborate Plating 100 F ---------- No Effect
Tin-Lead Plating 100 F ---------- No Effect
Toluene ---------- No Effect
Tomato Pulp & Juice ---------- No Effect

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Tributyl Phosphate ---------- Minor Effect
Trichloroethane ---------- Minor Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- No Effect
Turbine Oil ---------- No Effect
Turpentine ---------- Minor Effect
Urine ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oils ---------- No Effect
Vinegar ---------- Minor Effect
Water Acid, Mine ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Glycol ---------- No Effect
Water, Salt ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Water (Paper Mill) ---------- No Effect
Xylene ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ No Effect
Zinc Plating, Acid Sulfate Bath 150 F -------- **Severe Effect**
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Sulfate ---------- No Effect

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Epoxy Resins

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Epsom Salts

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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EPT

Chemical Compatibility

CHEMICAL	EFFECT
Acetate Solvents	**Severe Effect**
Acetic Acid	Moderate Effect
Acetone	Moderate Effect
Alcohol	**Severe Effect**
Alum	Minor Effect
Aluminum Chloride	Minor Effect
Ammonia	Moderate Effect
Ammonia, Aqueous 30%	Minor Effect
Ammonium Hydroxide	Minor Effect
Barium Chloride	**Severe Effect**
Barium Fluoride	**Severe Effect**
Barium Nitrate	Minor Effect
Barium Sulfate	Moderate Effect
Benzoic Acid	Moderate Effect
Boric Acid	Moderate Effect
Brake Fluid	No Effect
Butyl Alcohol	**Severe Effect**
Calcium Bisulfite	Minor Effect
Calcium Chloride	Minor Effect
Calcium Hydroxide	Minor Effect
Carbon Bisulfide	**Severe Effect**
Carbon Disulfide	**Severe Effect**
Carbon Tetrachloride	**Severe Effect**
Caustic Liquid	Minor Effect
Caustic Soda	Moderate Effect
Chlorinated Solvents	**Severe Effect**
Chlorine	**Severe Effect**
Chlorine Trifluoride	**Severe Effect**
Chloroacetic Acid	Moderate Effect
Chromic Acid	Moderate Effect
Citric Acid	Moderate Effect
Copper Sulfate	Minor Effect

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Corn Oil ---------- Minor Effect
Cyclohexane ---------- **Severe Effect**
Detergent Solutions ---------- Moderate Effect
Ethyl Acetate ---------- **Severe Effect**
Ethyl Cellosolve ---------- **Severe Effect**
Ethyl Chloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Sulfate ---------- Minor Effect
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Fluorine ---------- **Severe Effect**
Formaldehyde ---------- Minor Effect
Freon ---------- Minor Effect
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- **Severe Effect**
Gasoline (Petrol) ---------- **Severe Effect**
Glycerine or Glycerol ---------- **Severe Effect**
Hydraulic Oil ---------- **Severe Effect**
Hydrocarbons, Pure ---------- **Severe Effect**
Hydrochloric Acid ---------- Minor Effect
Hydrofluoric Acid ---------- Moderate Effect
Hydrofluosilicic Acid ---------- Moderate Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Sulfide ---------- Minor Effect
Iodine ---------- **Severe Effect**
Isopar G ---------- **Severe Effect**
Lacquer Solvents ---------- **Severe Effect**
Lubricating Oils ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydorxide ---------- Moderate Effect
Magnesium Sulfide ---------- Moderate Effect
Manganese Chloride ---------- Moderate Effect
Manganese Sulfate ---------- Moderate Effect
Mercuric Sulfate ---------- Moderate Effect

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Methyl Chloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- No Effect
Mineral Oils ---------- **Severe Effect**
Mustard ---------- Minor Effect
Nickel Chloride ---------- Moderate Effect
Nickel Sulfate ---------- Moderate Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid, 20% ---------- Minor Effect
Nitric Oxide ---------- Moderate Effect
Oil - No. 1 ASTM ---------- **Severe Effect**
Oil - No. 3 ASTM ---------- **Severe Effect**
Phosphoric Acid ---------- Moderate Effect
Photographic Developers ---------- Minor Effect
Photographic Fixer ---------- No Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Nitrate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Propylene Glycol ---------- No Effect
Silicone Oils ---------- Moderate Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Carbonate ---------- **Severe Effect**
Sodium Chlorate ---------- Minor Effect
Sodium Cyanide ---------- Minor Effect
Sodium Hydrosulfite ---------- Minor Effect
Sodium Hydroxide ---------- No Effect
Sodium Hypochlorite ---------- Minor Effect
Sodium Iodide ---------- Minor Effect
Sodium Nitrate ---------- Minor Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect

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Sodium Sulfite ---------- Minor Effect
Sodium Thiosulfate ---------- Minor Effect
Soybean Oil ---------- Minor Effect
Stannic Chloride ---------- Minor Effect
Stannous Chloride ---------- Minor Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Trioxide ---------- **Severe Effect**
Sulfuric Acid ---------- Moderate Effect
Sulfurous Acid ---------- Moderate Effect
Toluene ---------- **Severe Effect**
Tributyl Phosphate ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Turpentine ---------- **Severe Effect**
Vegetable Oils ---------- Minor Effect
Vinegar ---------- Moderate Effect
Water, Fresh ---------- Minor Effect
Water, Glycol ---------- Minor Effect
Zinc Chloride ---------- Minor Effect
Zinc Sulfate ---------- Minor Effect

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Esam-6 Fluid

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
VITON	**Severe Effect**

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Esstic 42, 43

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Ethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethanol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Ethanolamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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ETHYLENE PROPYLENE

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Moderate Effect
Acetamide	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	Moderate Effect
Acetone	No Effect
Acetyl Chloride	**Severe Effect**
Acetylene (Ethyne)	No Effect
Acrylonitrile	**Severe Effect**
Alcohol, Amyl	No Effect
Alcohol, Benzyl	Moderate Effect
Alcohol, Butyl	Moderate Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Sulfate	No Effect
Alums	No Effect
AMERSEP MP-7	No Effect
Amines	Moderate Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonia, Liquids	No Effect
Ammonium Carbonate	No Effect
Ammonium Chloride	No Effect
Ammonium Hydroxide	No Effect
Ammonium Nitrate	No Effect

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Ammonium Persulfate ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- Moderate Effect
Aniline Oil ---------- Minor Effect
Aqua Ammonia ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Arochlor 1248 ---------- Minor Effect
Aromatic Hydrocarbons ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Asphalt ---------- **Severe Effect**
Barium Chloride ---------- No Effect
Barium Cyanide ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- **Severe Effect**
Benzoic Acid ---------- **Severe Effect**
Black Liquor ---------- Minor Effect
Bleach, 12.5% Active Chlorine ---------- Moderate Effect
Borax ---------- Moderate Effect
Boric Acid ---------- No Effect
Bromine Water ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Butadiene ---------- No Effect
Butane ---------- **Severe Effect**

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Butter ---------- No Effect
Butyl Acetate ---------- Moderate Effect
Butylene ---------- No Effect
Butyric Acid ---------- Moderate Effect
Calcium Bisulfide ---------- **Severe Effect**
Calcium Bisulfite ---------- **Severe Effect**
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- Moderate Effect
Caustic Soda ---------- No Effect
Chloracetic Acid ---------- Minor Effect
Chlorinated Glue ---------- Minor Effect
Chlorine Water ---------- Moderate Effect
Chlorine, Anhydrous Liquid ---------- Minor Effect
Chloroacetic Acid ---------- Moderate Effect
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorox ---------- Minor Effect
Chrome Alum ---------- No Effect
Chromic Acid, 10% ---------- Moderate Effect
Chromic Acid, 30% ---------- Moderate Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- Moderate Effect
Citric Acid ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Copper Chloride ---------- No Effect

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Copper Cyanide ---------- No Effect
Copper Fluoride ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Sulfate ---------- No Effect
Corn Oil ---------- **Severe Effect**
Cottonseed Oil ---------- **Severe Effect**
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Crude Oil ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Cyclohexanol ---------- **Severe Effect**
Detergent Solutions ---------- No Effect
Dextrose ---------- No Effect
Dichloroethane ---------- **Severe Effect**
Diesel Fuel ---------- **Severe Effect**
Diesel Fuel Oil (2D,3D,4D,5D) ---------- **Severe Effect**
Diethylamine ---------- Moderate Effect
Diethylene Glycol ---------- No Effect
Dinitrotoluene ---------- **Severe Effect**
Dioctylphthalate ---------- Moderate Effect
Diphenyl Oxide ---------- **Severe Effect**
Ethane ---------- **Severe Effect**
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- Moderate Effect
Ethyl Acrylate ---------- Moderate Effect
Ethyl Chloride ---------- No Effect
Ethyl Ether ---------- **Severe Effect**
Ethylene Bromide ---------- **Severe Effect**
Ethylene Chloride ---------- Moderate Effect
Ethylene Chlorohydrin ---------- Moderate Effect
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- **Severe Effect**
Fatty Acids ---------- **Severe Effect**
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect

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Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- Moderate Effect
Formic Acid ---------- No Effect
Freon 11 ---------- **Severe Effect**
Freon 12 ---------- No Effect
Freon 12,13,22,114,115 ---------- No Effect
Freon 22 ---------- No Effect
Freon T.F. ---------- **Severe Effect**
Fuel Oil ---------- **Severe Effect**
Fuel Oil (1,2,3,5A,5B,6) ---------- **Severe Effect**
Furfural ---------- Moderate Effect
Gallic Acid ---------- Moderate Effect
Gasoline, Refined ---------- **Severe Effect**
Gelatin ---------- No Effect
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Heptane ---------- **Severe Effect**
Hexane ---------- **Severe Effect**
Hexanol, Tertiary ---------- **Severe Effect**
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- **Severe Effect**
Hydrazine ---------- No Effect
Hydrobomic Acid, 20% ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrochloric Acid (Conc.) ---------- **Severe Effect**
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid (Dry Gas) ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- Moderate Effect
Hydrocyanic Acid ---------- No Effect
Hydrocyanic Acid (Gas 10%) ---------- No Effect
Hydrofluoric Acid, 20% ---------- No Effect
Hydrofluoric Acid, 50% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- Moderate Effect
Hydrofluosilicic Acid, 20% ---------- No Effect
Hydrogen Peroxide ---------- Moderate Effect

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Hydrogen Peroxide, 50% ---------- Moderate Effect
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroxyacetic Acid, 70% ---------- No Effect
Hypochlorous Acid ---------- Moderate Effect
Iodine ---------- Moderate Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Ether ---------- **Severe Effect**
Jet Fuel (JP3,JP4,JP5) ---------- **Severe Effect**
Kerosene ---------- **Severe Effect**
Ketones ---------- **Severe Effect**
Lacquer Thinners ---------- No Effect
Lactic Acid ---------- Minor Effect
Lactic Acid, 25% ---------- Moderate Effect
Lard Oil ---------- Moderate Effect
Latex ---------- No Effect
Lead Acetate ---------- No Effect
Lead Sulfamate ---------- **Severe Effect**
Ligroin ---------- No Effect
Lime ---------- **Severe Effect**
Linoleic Acid ---------- No Effect
Linseed Oil ---------- **Severe Effect**
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- **Severe Effect**
Maleic Acid ---------- **Severe Effect**
Mercuric Chloride ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercury ---------- No Effect
Methyl Acetate ---------- Minor Effect
Methyl Acrylate ---------- Minor Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**

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Methyl Dichloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- No Effect
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- Moderate Effect
Methyl Methacrylate ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- No Effect
Mineral Oils ---------- **Severe Effect**
Naphtha, Petroleum ---------- **Severe Effect**
Naphthalene ---------- **Severe Effect**
Naptha ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Nickel Chloride ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- Moderate Effect
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Oils and Fats ---------- **Severe Effect**
Oleic Acid ---------- **Severe Effect**
Oleum ---------- **Severe Effect**
Oleum, 25% ---------- **Severe Effect**
Olive Oil ---------- Moderate Effect
Oxalic Acid ---------- Moderate Effect
Palmitic Acid ---------- Moderate Effect
Penthane ---------- **Severe Effect**
Perchloric Acid, 10% ---------- Moderate Effect
Perchloric Acid, 70% ---------- Moderate Effect
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- No Effect
Petroleum Oils (Sour) ---------- **Severe Effect**
Phenol ---------- **Severe Effect**
Phenol (Carbolic Acid) ---------- **Severe Effect**

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Phenol, 10% ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- Minor Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 50% ---------- Moderate Effect
Phosphorus Trichloride ---------- No Effect
Picric Acid ---------- No Effect
Plating Solutions ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propane (Liquefied) ---------- **Severe Effect**
Pyridine ---------- Minor Effect
Sea Water ---------- No Effect
Silicone ---------- No Effect
Silver Nitrate ---------- Moderate Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect

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Sodium Cyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hypochlorite ---------- Moderate Effect
Sodium Hypochlorite (to 20%) ---------- Minor Effect
Sodium Metaphosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Sour Crude Oil ---------- Moderate Effect
SP-90X ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Stearic Acid ---------- Minor Effect
Steric Acid ---------- Moderate Effect
Stoddard Solvent ---------- **Severe Effect**
Styrene ---------- **Severe Effect**
Sulfur ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide ---------- Moderate Effect
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfuric Acid, 75% ---------- Moderate Effect
Sulfuric Acid, 98.5% ---------- **Severe Effect**
Sulfurous Acid ---------- Moderate Effect
Tannic Acid ---------- No Effect

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Tetrachloroethane ---------- **Severe Effect**
Tetraethyl Lead ---------- **Severe Effect**
Tetrahydrofuran ---------- Moderate Effect
THIO-RED ---------- No Effect
Toluene ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- Moderate Effect
Turpentine ---------- **Severe Effect**
Urine ---------- No Effect
Vapam ---------- No Effect
Vinegar ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- No Effect
Wines ---------- No Effect
Xylene ---------- **Severe Effect**
Zinc Chloride ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Sulfate ---------- No Effect

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Ether (Ethyl, Methyl, Isor)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Ethers

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	Moderate Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**

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POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- **Severe Effect**
POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- Minor Effect
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Ethyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Moderate Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**

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NORYL ---------- **Severe Effect**
NYLON (Polyamide) ---------- **Severe Effect**
PHENOLIC ---------- Minor Effect
POLYACETAL ---------- No Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- Moderate Effect
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Ethyl Acetoacetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Acrylate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RYTON	Minor Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**
VITON	**Severe Effect**

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Ethyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	No Effect
NEOPRENE	No Effect
NORYL	No Effect
PHENOLIC	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Aluminum Dichloride

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Ethyl Amine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Benzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethyl Benzoate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethyl Bromide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethyl Butyl Acetate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Butyl Alcohol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Ethyl Butyl Ketone

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Butyraldehyde

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Butyrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Caprylate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Ethyl Cellulose

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Cellosolve

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
CERAMIC BARIUM FERRITE	**Severe Effect**
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
FLOURAZ	**Severe Effect**
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
PHENOLIC	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Cellulose

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	Moderate Effect
TEFLON	No Effect
VITON	Moderate Effect

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Ethyl Chloride

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Moderate Effect
HYPALON	**Severe Effect**
MONEL	Minor Effect
NEOPRENE	Moderate Effect
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	No Effect

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RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- Moderate Effect

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Ethyl Chloride (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CYCOLAC (ABS)	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Chloride (Wet)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Ethyl Chlorocarbonate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethyl Chloroformate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethyl Cyanide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	**Severe Effect**

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Ethyl Formate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Ethyl Iodide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Ethyl Isobutyrate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Ethyl Mercaptan

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NORPRENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ethyl Oxalate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Ethyl Pentachlorobenzene

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethyl Propionate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Ethyl Silicate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Ethyl Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
EPOXY	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Ethylacrylic Acid

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Ethylcyclopentane

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Ethylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ethylene Bromide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	**Severe Effect**
NORPRENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RYTON	Moderate Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Ethylene Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	**Severe Effect**

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TEFLON ---------- No Effect
TITANIUM ---------- Minor Effect
VINYL ---------- No Effect

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Ethylene Chlorohydrin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NORPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
SILICONE	Moderate Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Ethylene Diamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Moderate Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ethylene Dibromide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Ethylene Dichloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect

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SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- No Effect

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Ethylene Glycol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
MONEL	Minor Effect
NEOPRENE	No Effect
NORPRENE	No Effect

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NORYL ---------- No Effect
NYLON (Polyamide) ---------- No Effect
PHENOLIC ---------- Minor Effect
POLYACETAL ---------- No Effect
POLYCARBONATE (LEXAN) ---------- Minor Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- Moderate Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- Minor Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- Minor Effect
VITON ---------- No Effect

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Ethylene Glycol Monethyl Ether Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethylene Glycol Monobutyl

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Ethylene Glycol Monoethyl

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Ethylene Glycol Monomethyl

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Ethylene Glycol Monomethyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethylene Oxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Moderate Effect

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POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- **Severe Effect**
SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
VITON ---------- **Severe Effect**

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Ethylene Oxide (12%) & Freon 12 (80%)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Ethylene Trichloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ethylhexyl Acetate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Ethylhexyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Ethylidene Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Ethylmorpholene Stannous Octoate (50/50 Mix)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
VITON	**Severe Effect**

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Fatty Acids

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NORPRENE	Minor Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
PVC	Moderate Effect
RUBBER (Natural)	Moderate Effect
SILICON	Moderate Effect
TEFLON	No Effect

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TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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FC-43 Heptacosofluorotri-Butylamine FC75

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
VITON	No Effect

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Ferric Chloride

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
MONEL	**Severe Effect**
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	Minor Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Moderate Effect

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SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Moderate Effect

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Ferric Chloride, 1%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Ferric Chloride, 1% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	No Effect

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Ferric Chloride, 10% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ferric Chloride, 5% Agitated or Aerated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Ferric Chloride, 5% Solution (Still)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	No Effect

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Ferric Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	Minor Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Ferric Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect

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RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- No Effect

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Ferric Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect

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POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- Moderate Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Ferric Sulphate 1% to 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
FLOURAZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Ferrous Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
HASTELLOY C	Moderate Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	**Severe Effect**
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	Minor Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect

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PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	Minor Effect

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Ferrous Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
HASTELLOY C	Moderate Effect
HYPALON	Minor Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	Minor Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect

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TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Ferrous Sulfate (Copperas)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
KALREZ	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect

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Ferrous Sulfate (Saturated)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Ferrous Sulfate, 10% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Fish Liver Oils

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Fish Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect
VITON	No Effect

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FLOURAZ

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetate Solvents	**Severe Effect**
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Anhydride	Minor Effect
Acetone	**Severe Effect**
Acetylene (Ethyne)	No Effect
Acid (Mild)	No Effect
Acrylonitrile	Minor Effect
Alcohol, Amyl	Minor Effect
Alcohol, Methyl	No Effect
Alum	No Effect
Aluminum Chloride	No Effect
Aluminum Hydroxide	No Effect
AMERSEP MP-7	No Effect
Amines	No Effect
Ammonia Gas, Cold	**Severe Effect**
Ammonia Gas, Hot	**Severe Effect**
Ammonia, Anhydrous, Liquid	No Effect
Ammonium Bicarbonate	**Severe Effect**
Ammonium Bifluoride, 10%	No Effect
Ammonium Carbonate	**Severe Effect**
Ammonium Chloride, 1%	**Severe Effect**
Ammonium Chloride, 10% Solution Boiling	**Severe Effect**
Ammonium Chloride, 28% Solution Boiling	**Severe Effect**
Ammonium Chloride, 50% Solution Boiling	**Severe Effect**
Ammonium Hydroxide	No Effect

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Ammonium Nitrate ---------- **Severe Effect**
Ammonium Phosphate ---------- **Severe Effect**
Ammonium Phosphate, Monobasic ---------- **Severe Effect**
Ammonium Phosphate, Tri-Basic ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- **Severe Effect**
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Plus 5% Sulfuric Acid ------ **Severe Effect**
Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- Minor Effect
Aniline ---------- No Effect
Aniline Hydrochloride ---------- No Effect
Anti-Freeze (Alcohol Base) ---------- Minor Effect
Anti-Freeze (Glycol Base) ---------- Minor Effect
Argon ---------- No Effect
Arochlor 1248 ---------- **Severe Effect**
Aromatic Fuel 30% Mil. ---------- No Effect
Aromatic Fuel 50% ---------- No Effect
Asphalt ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Nitrate ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Benzine (Gasoline) ---------- Minor Effect
Benzoic Acid ---------- No Effect
Benzol ---------- **Severe Effect**
Bichloride of Mercury ---------- No Effect
Bleach Solutions ---------- No Effect
Blood (Meat Juices-Cold) ---------- **Severe Effect**
Borax ---------- No Effect
Brine ---------- No Effect
Bromine (Wet) ---------- **Severe Effect**
Bromochloromethane ---------- Minor Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- **Severe Effect**

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Butane ---------- No Effect
Butanol ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Amine ---------- **Severe Effect**
Butylene ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Phosphate ---------- No Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Dioxide, Dry ---------- Minor Effect
Carbon Dioxide, Wet ---------- Minor Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Catsup ---------- No Effect
Caustic ---------- No Effect
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Cod Liver Oil ---------- No Effect
Copper Acetate ---------- **Severe Effect**
Copper Chloride, 1% ---------- No Effect
Copper Cyanide ---------- Minor Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- No Effect

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Creosote, Coal-Tar ---------- No Effect
Crude Oil ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- No Effect
Cyclohexanone ---------- No Effect
D.D.T. ---------- **Severe Effect**
Dibutyl Phthalate ---------- **Severe Effect**
Dichloroethane ---------- **Severe Effect**
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Carbonate ---------- No Effect
Diethyl Ether ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- **Severe Effect**
Diisopropyl Ketone ---------- **Severe Effect**
Dimethyl Phthalate ---------- Minor Effect
Dioctyl Phthalate ---------- No Effect
Diphenyl ---------- **Severe Effect**
Dow Corning (Silicones) ---------- No Effect
Dowtherm A ---------- Minor Effect
Dowtherm E ---------- No Effect
Dyes ---------- No Effect
Ethanol ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Alcohol ---------- No Effect
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzoate ---------- Minor Effect
Ethyl Cellosolve ---------- **Severe Effect**
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chlorocarbonate ---------- Minor Effect
Ethyl Chloroformate ---------- Minor Effect

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Ethyl Ether ---------- **Severe Effect**
Ethyl Mercaptan ---------- No Effect
Ethylene ---------- **Severe Effect**
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- **Severe Effect**
Ethylene Oxide (12%) & Freon 12 (80%) -------- **Severe Effect**
Ethylene Trichloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- No Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Formaldehyde ---------- **Severe Effect**
Formaldehyde (Hot) ---------- **Severe Effect**
Freon 11 ---------- **Severe Effect**
Freon 113 ---------- **Severe Effect**
Freon 114 ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Freon 22 ---------- **Severe Effect**
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Furfural ---------- No Effect
Gasoline (Aviation) ---------- **Severe Effect**
Gasoline (Meter) ---------- **Severe Effect**
Gasoline (Sour) ---------- **Severe Effect**
Gelatin ---------- No Effect
Glauber's Salt ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycols ---------- No Effect
Grape Juice ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect

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Green Sulfate Liquor ---------- No Effect
Helium ---------- No Effect
Heptane ---------- **Severe Effect**
Hexane ---------- **Severe Effect**
Hexyl Alcohol ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- No Effect
Hydrogen Sulfide Wet, Cold ---------- No Effect
Hydrogen Sulfide Wet, Hot ---------- No Effect
Ink (Printers) ---------- **Severe Effect**
Iodine ---------- **Severe Effect**
Iodoform ---------- **Severe Effect**
Iso Butane ---------- **Severe Effect**
Isooctane ---------- Minor Effect
Isopentane ---------- **Severe Effect**
Isopropanol ---------- No Effect
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- Minor Effect
Isopropyl Chloride ---------- **Severe Effect**
Isopropyl Ether ---------- **Severe Effect**
JP-3 (Mil-J-5624) ---------- Minor Effect
JP-4 (Mil-J-5624) ---------- Minor Effect
JP-5 (Mil-J-5624) ---------- Minor Effect
JP-6 (Mil-J-25656) ---------- Minor Effect
JP-X (Mil-F-25604) ---------- Minor Effect
Kerosene ---------- Minor Effect
Lacquers ---------- **Severe Effect**
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Latex ---------- No Effect
Lavender Oil ---------- No Effect
Lead Acetate ---------- **Severe Effect**
Lead Nitrate ---------- Minor Effect

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Lead Sulfamate ---------- No Effect
Lime Bleach ---------- No Effect
Lindol ---------- No Effect
Liquid Petroleum Gas (LPG) ---------- No Effect
Lithium Bromide ---------- No Effect
Lithium Chloride ---------- No Effect
Lye ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Maleic Anhydride ---------- No Effect
Manganese Chloride ---------- No Effect
Mayonnaise ---------- **Severe Effect**
Melamine Resins ---------- **Severe Effect**
Mercaptan ---------- **Severe Effect**
Mercuric Chloride ---------- No Effect
Mercury ---------- No Effect
Mercury Salts ---------- No Effect
Mercury Vapors ---------- No Effect
Mesityl Oxide ---------- **Severe Effect**
Methane ---------- **Severe Effect**
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- **Severe Effect**
Methyl Acrylate ---------- **Severe Effect**
Methyl Alcohol ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Cyclopentane ---------- **Severe Effect**
Methyl Dichloride ---------- **Severe Effect**
Methyl Ether ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Formate ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**

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Methylene Chloride ---------- **Severe Effect**
Methylene Dichloride ---------- **Severe Effect**
Milk ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
Molasses ---------- No Effect
Monobromobenzene ---------- **Severe Effect**
Monochlorobenzene ---------- **Severe Effect**
Mustard ---------- No Effect
N-Butyl Ether ---------- **Severe Effect**
N-Pentane ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- **Severe Effect**
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Nickel Acetate ---------- **Severe Effect**
Nickel Chloride ---------- No Effect
Nickel Salts ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitrobenzene ---------- No Effect
Nitroethane ---------- **Severe Effect**
Nitrogen ---------- No Effect
Nitromethane ---------- **Severe Effect**
Nitropropane ---------- Minor Effect
Oils (Animal) ---------- No Effect
Oils, Crude ---------- No Effect
Ortho-Dichlorobenzene ---------- **Severe Effect**
Oxygen, Cold ---------- **Severe Effect**
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraldehyde ---------- Minor Effect
Pentane, 2 Methyl ---------- No Effect
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- No Effect
Petroleum Ether ---------- **Severe Effect**
Phenol ---------- No Effect

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Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phosphate Esters ---------- No Effect
Phosphoric Acid ---------- No Effect
Phosphoric Acid (Conc) ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 10% Solution (Hot) ---------- No Effect
Phosphoric Acid, 3 Molar ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Acid, 50% Solution (Hot) ---------- No Effect
Phosphoric Acid, 85% Solution ---------- No Effect
Phosphoric Acid, 85% Solution (Hot) ---------- No Effect
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- Minor Effect
Phthalic Anhydride ---------- Minor Effect
Plating Solution, Chrome ---------- No Effect
Plating Solution, Others ---------- No Effect
Polyvinyl Acetate Emulsion ---------- **Severe Effect**
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- No Effect
Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 50% Solution (Boiling) -- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Hydroxide, 70% Solution (Hot) ------ No Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Sulfate ---------- No Effect

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Potassium Sulphate ---------- No Effect
Propane ---------- No Effect
Propylene ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- **Severe Effect**
Radiation ---------- No Effect
Rosin ---------- No Effect
Sal Ammoniac ---------- No Effect
Salt Water ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Nitrate ---------- No Effect
Skydrol 500 ---------- No Effect
Skydrol 7000 ---------- No Effect
Soap Solutions ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- **Severe Effect**
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Cyanide ---------- **Severe Effect**
Sodium Hydrosulfide ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) ---------- No Effect
Sodium Hydroxide, 3 Molar ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- No Effect
Sodium Hydroxide, 70% (Cold) ---------- No Effect
Sodium Hydroxide, 80% Solution (Hot) ---------- No Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite, 20% ---------- No Effect

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Sodium Hypochlorite, 5% ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate (Cold) ---------- **Severe Effect**
Sodium Metasilicate (Hot) ---------- **Severe Effect**
Sodium Nitrate ---------- **Severe Effect**
Sodium Nitrate - Fused ---------- **Severe Effect**
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- No Effect
Sodium Phosphate (Dibasic) ---------- No Effect
Sodium Phosphate (Mono) ---------- No Effect
Sodium Phosphate (Tribasic) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Sour Natural Gas ---------- No Effect
SP-90X ---------- No Effect
Starch ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- **Severe Effect**
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide ---------- No Effect
Sulfur Trioxide (Dry) ---------- No Effect
Syrup ---------- No Effect
Tall Oil (Liquid Rosin) ---------- No Effect
Tallow, Molten ---------- No Effect
Tar and Tar Oil ---------- No Effect

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Tar, Bituminous ---------- No Effect
Tetrachloroethane ---------- **Severe Effect**
Tetrachloroethylene ---------- **Severe Effect**
Tetraethyl Lead ---------- **Severe Effect**
Tetrahydrofuran ---------- **Severe Effect**
THIO-RED ---------- No Effect
Titanium Tetrachloride ---------- **Severe Effect**
Toluene ---------- **Severe Effect**
Toluol ---------- **Severe Effect**
Tomato Pulp & Juice ---------- No Effect
Trichlorobenzenes ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Tricresyl Phosphate ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Trisodium Phosphate ---------- No Effect
Turpentine ---------- No Effect
Urea ---------- **Severe Effect**
Urine ---------- **Severe Effect**
Varnish ---------- **Severe Effect**
Vegetable Juices ---------- No Effect
Vinegar ---------- No Effect
Vinyl Chloride ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- No Effect
Wort, Distillery ---------- No Effect
Xylene ---------- **Severe Effect**
Zeolite ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Nitrate ---------- No Effect

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Zinc Sulfate ---------- No Effect

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Fluoboric Acid

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
BUNA	Minor Effect
CARBON	No Effect
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	Minor Effect
NYLON (Polyamide)	Moderate Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Fluoboric Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
HYPALON	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect

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Fluorboric Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
HYPALON	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	Moderate Effect

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Fluoride (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect

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Fluorinated Cyclic Ether

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
E.P.D.M.	No Effect
VITON	No Effect

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Fluorine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
MONEL	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	Moderate Effect
TEFLON	**Severe Effect**
TITANIUM	**Severe Effect**
VITON	**Severe Effect**

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Fluorine (Anhydrous)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
VITON	Minor Effect

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Fluorine (Liquid)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Fluorine Gas (wet)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**

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Fluorobenzene

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Fluorocarbon Oil

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect
NEOPRENE	No Effect

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Fluorochloroethylene

Material Compatibility

MATERIAL	EFFECT
VITON	No Effect

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Fluorolube

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Fluorosulfonic Acid

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect

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Fluosilicic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	Moderate Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
TYGON (E-3606)	Minor Effect

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VINYL ---------- Moderate Effect
VITON ---------- No Effect
VITON ---------- No Effect

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Formaldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	Minor Effect
NEOPRENE	Moderate Effect
NORPRENE	No Effect
NORYL	**Severe Effect**

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NYLON (Polyamide) ---------- Moderate Effect
PHENOLIC ---------- Moderate Effect
POLYACETAL ---------- No Effect
POLYCARBONATE (LEXAN) ---------- No Effect
POLYETHYLENE ---------- Moderate Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Moderate Effect
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- Moderate Effect
VITON ---------- **Severe Effect**

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Formaldehyde (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
CARBON STEEL	**Severe Effect**
CAST IRON	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect

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Formaldehyde, 40%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
BUNA	Minor Effect
CARBON	**Severe Effect**
CERAMIC	No Effect
ECTFE	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	Minor Effect
RYTON	No Effect
SILICON	Minor Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	**Severe Effect**

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Formamide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Formic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	Moderate Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	Minor Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	Moderate Effect
TYGON (E-3606)	Minor Effect

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VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Formic Acid (Dilute Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Formic Acid (Dilute Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
HYPALON	Minor Effect
MONEL	Minor Effect
NORYL	**Severe Effect**
PHENOLIC	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Freon 11

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect

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SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- Minor Effect

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Freon 112

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Freon 113

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Moderate Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TYGON (E-3606)	**Severe Effect**
VITON	Minor Effect

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Freon 114

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon 114B2

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Freon 115

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
KALREZ	Minor Effect
NEOPRENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Freon 12

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HYPALON	No Effect
KALREZ	Minor Effect
NEOPRENE	Minor Effect
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
POLYPROPYLENE	Minor Effect

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POLYSULFONE ---------- Moderate Effect
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- Minor Effect

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Freon 12,13,22,114,115

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BRASS	No Effect
BUNA	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HYPALON	No Effect
NORPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
POLYSULFONE	Moderate Effect
PVC	No Effect
RYTON	No Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	**Severe Effect**

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Freon 13

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon 13B1

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
KALREZ	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon 14

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Freon 142b

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon 152a

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon 21

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon 218

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon 22

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect

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SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Freon 31

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon 32

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon 502

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
KALREZ	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Freon C316

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon T-P35

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon T-WD602

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon T.F.

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
NEOPRENE	No Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TYGON (E-3606)	**Severe Effect**
VITON	Minor Effect

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Freon TA

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon TC

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Freon TMC

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Freon, BF

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Freon, C318

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Freon, K-142B

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon, K-152A

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Freon, MF

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Freon, PCA

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Fruit Juice Pulp

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
BUNA	No Effect
HYPALON	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Fruit Juices

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect
POLYACETAL	Minor Effect

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POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Fuel Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect
POLYACETAL	No Effect

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POLYCARBONATE (LEXAN) ---------- Minor Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- Minor Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- Moderate Effect
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- No Effect

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Fuel Oil (1,2,3,5A,5B,6)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	Minor Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Fumaric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Fuming Sulphuric Acid (20/25% Oleum)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Furan

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Furan Resin

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Furfural

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**

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POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- **Severe Effect**
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Furfuraldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Furfuryl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Furyl Carbinol

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**

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Fusel Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Fyrquel 90,100,150m 220, 300,500

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
VITON	**Severe Effect**

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Fyrquel A60

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
VITON	**Severe Effect**

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Gallic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
TYGON (E-3606)	No Effect
VINYL	No Effect
VITON	No Effect

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Gas, Manufactured

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
SILICONE	No Effect
TEFLON	No Effect

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Gas, Natural

Material Compatibility

MATERIAL	EFFECT
NORPRENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect

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Gasoline (Aviation)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Gasoline (Meter)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Gasoline (Petrol)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
MONEL	No Effect
NEOPRENE	Moderate Effect
NORYL	**Severe Effect**
PHENOLIC	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Gasoline (Sour)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Gasoline (Unleaded)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Gasoline, Refined

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
BUNA	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NORPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	Moderate Effect
PVC	Moderate Effect
RYTON	No Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VINYL	Moderate Effect
VITON	No Effect

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Gelatin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect

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RUBBER (Natural) ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- Minor Effect

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Ginger Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	No Effect

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Glacial Acetic Acid

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
VITON	**Severe Effect**

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Glauber's Salt

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Gluconic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CAST IRON	Moderate Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	No Effect

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Glucose

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Glue

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	Minor Effect

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Glutamic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	No Effect
COPPER	**Severe Effect**

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Glycerine or Glycerol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect

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NORYL ---------- No Effect
NYLON (Polyamide) ---------- Minor Effect
PHENOLIC ---------- Minor Effect
POLYACETAL ---------- No Effect
POLYCARBONATE (LEXAN) ---------- No Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Glycolic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CYCOLAC (ABS)	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Glycols

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Gold Monocyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Gold Plating, Acid 75 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Gold Plating, Cyanide 150 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CAST BRONZE	Moderate Effect
CERAMIC	Minor Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Gold Plating, Neutral 75 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Grape Juice

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Grapefruit Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Grease

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	No Effect

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Grease (Ester Base)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NYLON (Polyamide)	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Grease (Petroleum Base)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Grease (Silicone Base)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NYLON (Polyamide)	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Green Sulfate Liquor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Halothane

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Halowax Oil

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Hannifin Lube A

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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HASTELLOY C

Chemical Compatibility

CHEMICAL	EFFECT
1-Chloronaphthalene	No Effect
1-Nitropropane	No Effect
Acetaldehyde	No Effect
Acetamide	No Effect
Acetic Acid	No Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 80%	No Effect
Acetic Acid, 95%	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetone	No Effect
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	Minor Effect
Acetyl Acetone	Minor Effect
Acetyl Chloride	No Effect
Acetyl Salicylic Acid	Minor Effect
Acetylene (Ethyne)	No Effect
Acrolein (Acrylaldehyde)	Minor Effect
Acrylonitrile	No Effect
Adipic Acid	No Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect

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Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- No Effect
Allyl Alcohol ---------- No Effect
Alum ---------- Minor Effect
Aluminum Acetate ---------- No Effect
Aluminum Chloride ---------- **Severe Effect**
Aluminum Chloride, 20% ---------- No Effect
Aluminum Fluoride ---------- No Effect
Aluminum Hydroxide ---------- Minor Effect
Aluminum Nitrate ---------- Minor Effect
Aluminum Potassium Sulfate ---------- Minor Effect
Aluminum Potassium Sulfate (Alum), 10% ------- Minor Effect
Aluminum Potassium Sulfate (Alum), 100% ------ Minor Effect
Aluminum Sulfate ---------- No Effect
AMERSEP MP-7 ---------- No Effect
Amines ---------- No Effect
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Aqueous 30% ---------- Minor Effect
Ammonia, Liquids ---------- Minor Effect
Ammonium Bifluoride, 10% ---------- Minor Effect
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- Moderate Effect
Ammonium Fluoride ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Metaphosphate ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- Minor Effect
Ammonium Sulfate ---------- Moderate Effect
Ammonium Sulfide ---------- No Effect

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Ammonium Sulfite ---------- No Effect
Ammonium Thiocyanate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- Minor Effect
Amyl Chloride ---------- Minor Effect
Amyl Phenol ---------- No Effect
Aniline ---------- Moderate Effect
Aniline Oil ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Anisole ---------- Minor Effect
Anthraquinone ---------- No Effect
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Pentachloride ---------- No Effect
Antimony Trichloride ---------- Minor Effect
Aqua Regia ---------- Moderate Effect
Aroclor ---------- No Effect
Aromatic Solvents ---------- Minor Effect
Arsenic Acid ---------- Minor Effect
Arsenic Trichloride ---------- Minor Effect
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- No Effect
ASTM, Red Motor Fuel C ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Aviation Gasoline ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride Dihydrate ---------- Minor Effect
Barium Hydroxide ---------- Minor Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Beer ---------- No Effect

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Benzaldehyde ---------- No Effect
Benzene ---------- Minor Effect
Benzene Sulfonic Acid ---------- No Effect
Benzoic Acid ---------- Minor Effect
Benzol ---------- Minor Effect
Benzoyl Chloride ---------- Minor Effect
Benzyl Acetate ---------- Minor Effect
Benzyl Alcohol ---------- Minor Effect
Benzyl Benzoate ---------- Minor Effect
Benzyl Chloride ---------- No Effect
Benzyl Dichloride ---------- Minor Effect
Black Sulfate Liquor ---------- Minor Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid ---------- No Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Brine ---------- No Effect
Bromine Water ---------- No Effect
Bromine, Anhydrous ---------- No Effect
Bromine, Liquid ---------- No Effect
Bromobenzene ---------- Minor Effect
Bromochloromethane ---------- Minor Effect
Bromotoluene ---------- No Effect
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Bronzing Liquid ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butane ---------- Minor Effect
Butanol ---------- No Effect
Butyl Acetate ---------- Minor Effect
Butyl Acetyl Ricinoleate ---------- No Effect

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Butyl Alcohol ---------- No Effect
Butyl Benzoate ---------- Minor Effect
Butyl Butyrate ---------- No Effect
Butyl Chloride ---------- Minor Effect
Butyl Ether ---------- No Effect
Butyl Stearate ---------- Minor Effect
Butyraldehyde ---------- No Effect
Butyric Acid ---------- No Effect
Butyric Anhydride ---------- No Effect
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- No Effect
Calcium Acetate Hydrate ---------- Minor Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- Minor Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 30% Boiling ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- Minor Effect
Calcium Oxide ---------- No Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- Minor Effect
Calcium Sulfide ---------- No Effect
Capryl Alcohol ---------- No Effect
Caprylic Acid ---------- No Effect
Carbitol ---------- No Effect
Carbolic Acid ---------- No Effect
Carbon Dioxide ---------- No Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- No Effect
Carbonated Beverages ---------- No Effect
Carbonic Acid ---------- No Effect
Casein ---------- Minor Effect
Castor Oil ---------- No Effect

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Catsup ---------- No Effect
Cellosolve ---------- No Effect
Cellulose Acetate ---------- No Effect
Cellulube Hydraulic Fluids ---------- No Effect
Chloracetic Acid ---------- No Effect
Chlorinated Water, Saturate ---------- No Effect
Chlorine Dioxide ---------- Minor Effect
Chlorine Water ---------- Minor Effect
Chlorine, Anhydrous Liquid ---------- No Effect
Chlorine, Dry ---------- No Effect
Chlorine, Wet ---------- No Effect
Chloroacetic Acid ---------- No Effect
Chloroacetone ---------- Minor Effect
Chlorobenzene ---------- Minor Effect
Chlorobutadiene ---------- Minor Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- Minor Effect
Chlorothene ---------- No Effect
Chlorotrifluoroethylene ---------- Minor Effect
Chlorox ---------- Minor Effect
Chromic Acid ---------- No Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect
Chromium Plating, Barrel Chrome Bath 95 F ---- No Effect
Chromium Plating, Black Chrome Bath 115 F ---- No Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F No Effect
Chromium Plating, Fluoride Bath 130 F -------- No Effect
Chromium Plating, Fluosilicate Bath 95 F ----- No Effect
Cider (Apple Juice) ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, Hot Conc. ---------- No Effect
Coffee ---------- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Acetate ---------- Minor Effect

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Copper Chloride ---------- Minor Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- Minor Effect
Copper Fluoborate ---------- Minor Effect
Copper Nitrate ---------- No Effect
Copper Nitrate Hexahydrate ---------- Minor Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- No Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),
Copper Strike Bath 120 F ---------- No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Creosote, Coal-Tar ---------- Minor Effect
Cresylic Acid ---------- Minor Effect
Crotonaldehyde ---------- No Effect
Crude Oil ---------- Minor Effect
Cumeme ---------- Minor Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- No Effect
Cyclohexanone ---------- Minor Effect
Cyclopentane ---------- Minor Effect
Cycolic Acid ---------- No Effect
Denatured Alcohol ---------- No Effect
Developing Fluids & Solutions ---------- No Effect
Dextrose ---------- No Effect
Diacetone Alcohol ---------- No Effect
Dibenzyl Ether ---------- Minor Effect
Dibutyl Amine ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dichlorethane ---------- No Effect

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Dichloroethane ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diester Synthetic Oils ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisooctyl Adipate ---------- No Effect
Dimethyl Ether ---------- Minor Effect
Dimethyl Sulfide ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dipentene ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dipsersing Oil #10 ---------- No Effect
Dowtherm (Biphenyl & Phenyl Ether) ---------- No Effect
Epichlorohydrin ---------- No Effect
Epsom Salts ---------- Minor Effect
Ethane ---------- No Effect
Ethers ---------- Minor Effect
Ethyl Acetate ---------- Moderate Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellulose ---------- Minor Effect
Ethyl Chloride ---------- Moderate Effect
Ethyl Formate ---------- Minor Effect
Ethyl Mercaptan ---------- Minor Effect

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Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethylene Chloride ---------- Minor Effect
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- Minor Effect
Ethylene Dichloride ---------- Minor Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monobutyl ---------- No Effect
Ethylene Glycol Monoethyl ---------- No Effect
Ethylene Glycol Monomethyl ---------- No Effect
Ethylene Oxide ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- Minor Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- Minor Effect
Ferric Hydroxide ---------- Minor Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- Moderate Effect
Ferrous Sulfate ---------- Moderate Effect
Fluboric Acid ---------- No Effect
Fluorine ---------- No Effect
Fluorolube ---------- No Effect
Fluosilicic Acid ---------- Minor Effect
Formaldehyde ---------- Minor Effect
Formaldehyde, 40% ---------- No Effect
Formamide ---------- Minor Effect
Formic Acid ---------- No Effect
Freon 13 ---------- No Effect
Freon 22 ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furfural ---------- Minor Effect
Furfuryl Alcohol ---------- No Effect

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Gallic Acid ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Gasoline (Unleaded) ---------- No Effect
Gasoline, Refined ---------- No Effect
Gelatin ---------- No Effect
Gluconic Acid ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Gold Monocyanide ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Green Sulfate Liquor ---------- Minor Effect
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexanal ---------- Minor Effect
Hexane ---------- No Effect
Hexylene Glycol ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydrazine ---------- No Effect
Hydrobomic Acid, 20% ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid, 20% ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid (Dry Gas) ---------- No Effect
Hydrochloric Acid 20% ---------- No Effect
Hydrochloric Acid, 100% ---------- Moderate Effect
Hydrochloric Acid, 20% ---------- Minor Effect
Hydrochloric Acid, 37% ---------- Minor Effect
Hydrocyanic Acid ---------- Minor Effect
Hydrofluoric Acid ---------- Moderate Effect
Hydrofluoric Acid, (Conc) ---------- Minor Effect
Hydrofluoric Acid, 100% ---------- Minor Effect
Hydrofluoric Acid, 20% ---------- Minor Effect

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Hydrofluoric Acid, 50% ---------- Minor Effect
Hydrofluoric Acid, 75% ---------- Moderate Effect
Hydrofluosilicic Acid ---------- Moderate Effect
Hydrofluosilicic Acid, 20% ---------- Minor Effect
Hydrogen Fluoride, Anhydrous ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 30% ---------- No Effect
Hydrogen Sulfide ---------- No Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroquinone ---------- Minor Effect
Hypochlorous Acid ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- No Effect
Iodine ---------- Minor Effect
Iodine (In Alcohol) ---------- No Effect
Iodoform ---------- No Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- **Severe Effect**
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- Minor Effect
Iron Plating, Sulfamate 140 F ---------- Minor Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- **Severe Effect**
Isoamyl Acetate ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isobutyl Acetate ---------- No Effect
Isobutyl Chloride ---------- No Effect
Isododecane ---------- Minor Effect
Isooctane ---------- No Effect
Isophorone ---------- No Effect
Isopropyl Acetate ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Chloride ---------- No Effect
Jet Fuels (JP1 to JP6) ---------- No Effect
Kerosene ---------- No Effect

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Ketones ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquer Thinners ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid ---------- No Effect
Lactic Acid, 25% ---------- No Effect
Lactol ---------- No Effect
Lard Oil ---------- No Effect
Lauryl Alcohol ---------- No Effect
Lead Acetate ---------- Minor Effect
Lead Chloride ---------- Minor Effect
Lead Fluoborate Plating ---------- No Effect
Lead Nitrate ---------- Minor Effect
Linoleic Acid ---------- No Effect
Linseed Oil ---------- No Effect
Lubricants ---------- No Effect
Lubricating Oils ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- No Effect
Mayonnaise ---------- No Effect
Mercuric Chloride ---------- Minor Effect
Mercuric Chloride (Dilute Solution) ---------- Minor Effect
Mercuric Cyanide ---------- Minor Effect
Mercurous Nitrate ---------- Minor Effect
Mercury ---------- No Effect
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetoacetate ---------- No Effect

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Methyl Alcohol ---------- No Effect
Methyl Alcohol, 10% ---------- No Effect
Methyl Amine ---------- Minor Effect
Methyl Amyl Acetate ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Bromide ---------- Minor Effect
Methyl Butyrate ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- No Effect
Methylamine ---------- Minor Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- No Effect
Milk ---------- No Effect
Mine Water ---------- No Effect
Mineral Oils ---------- No Effect
Mixed Acids ---------- Minor Effect
Molasses ---------- No Effect
Mustard ---------- No Effect
N,N-Dimethyl Formamide ---------- No Effect
n-Butyl Acetate ---------- No Effect
n-Hexane ---------- No Effect
n-Propyl Acetate ---------- No Effect
Naphtha Coal Tar (Benzol) ---------- No Effect
Naphtha, Petroleum ---------- No Effect
Naphthalene ---------- No Effect
Naphthoic Acid ---------- Minor Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Neosol ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- Minor Effect
Nickel Plating, Fluoborate 100-170 F --------- No Effect
Nickel Plating, High Chloride 130-160 F ------ No Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect

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Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Sulfate ------------------------------ Minor Effect
Nitric Acid (Conc) -------------------------- Minor Effect
Nitric Acid (Red Fuming) -------------------- Minor Effect
Nitric Acid, 10% ---------------------------- No Effect
Nitric Acid, 20% ---------------------------- No Effect
Nitric Acid, 25% ---------------------------- No Effect
Nitric Acid, 35% ---------------------------- No Effect
Nitric Acid, 50% ---------------------------- **Severe Effect**
Nitric Acid, 70% ---------------------------- **Severe Effect**
Nitrobenzene -------------------------------- Minor Effect
Nitroethane --------------------------------- No Effect
Nitrogen Tetroxide -------------------------- No Effect
Nitromethane -------------------------------- No Effect
Nitrous Oxide ------------------------------- No Effect
o-Chlorophenol ------------------------------ Minor Effect
o-Dichlorobenzene --------------------------- No Effect
Oleic Acid ---------------------------------- Minor Effect
Oleum, 25% ---------------------------------- No Effect
Olive Oil ----------------------------------- No Effect
Oxalic Acid --------------------------------- Minor Effect
Ozone --------------------------------------- No Effect
Paint Thinner, DUCO ------------------------- No Effect
Paints & Solvents --------------------------- No Effect
Palm Oil ------------------------------------ No Effect
Paraffins (Paraffin Oil) -------------------- No Effect
Paraformaldehyde ---------------------------- No Effect
Paraldehyde --------------------------------- No Effect
Peanut Oil ---------------------------------- No Effect
Pentachloroethane --------------------------- No Effect
Pentachlorophenol --------------------------- No Effect
Penthane ------------------------------------ Minor Effect
Perchloroethylene --------------------------- Minor Effect
Petroleum Oils (Sour) ----------------------- No Effect
Phenethyl Alcohol --------------------------- No Effect
Phenol -------------------------------------- No Effect

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Phenol (Carbolic Acid) ---------- No Effect
Phenol, 10% ---------- Minor Effect
Phosphoric Acid ---------- No Effect
Phosphoric Acid (Crude) ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 20% ---------- No Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphorus Oxychloride ---------- Minor Effect
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- No Effect
Photographic Solutions ---------- No Effect
Phthalic Anhydride ---------- No Effect
Pickling Solution ---------- No Effect
Picric Acid ---------- No Effect
Plating Solution, Chrome ---------- No Effect
Plating Solutions ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Potash ---------- No Effect
Potassium Acetate ---------- Minor Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bisulfite ---------- Minor Effect
Potassium Bromide ---------- Minor Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- Minor Effect
Potassium Ferrocyanide ---------- Minor Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Iodide ---------- Minor Effect
Potassium Nitrate ---------- Minor Effect

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Potassium Nitrite ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate 10% ---------- Minor Effect
Potassium Phosphate ---------- Minor Effect
Potassium Silicate ---------- Minor Effect
Potassium Sulfate ---------- Minor Effect
Potassium Sulfide ---------- Minor Effect
Propane ---------- No Effect
Propionaldehyde ---------- No Effect
Propionic Acid ---------- No Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- Minor Effect
Propylene Glycol ---------- No Effect
Pydraul ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- No Effect
Quench Oil ---------- No Effect
Rape-Seed Oil ---------- No Effect
Rhodium Plating 120 F ---------- **Severe Effect**
Rosin ---------- Minor Effect
Rubber Latex Emulsions ---------- No Effect
Rubber Solvents ---------- No Effect
Rum ---------- No Effect
Sal Soda ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- No Effect
Silicone Oils ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Silver Plating Solutions ---------- No Effect
Skydrol Hydraulic Fluid ---------- No Effect
Soaps ---------- Minor Effect

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Soda Ash ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- Minor Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- No Effect
Sodium Bromide ---------- Minor Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Hexametaphosphate ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 80% ---------- Minor Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate ---------- No Effect
Sodium Nitrate ---------- Moderate Effect
Sodium Nitrite ---------- No Effect
Sodium Perborate ---------- Minor Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- Minor Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- Minor Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect
Sodium Sulfite ---------- Minor Effect
Sodium Thiosulfate ---------- Minor Effect
Sorghum ---------- No Effect

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Sorgum ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
SP-90X ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- Minor Effect
Stannous Chloride ---------- No Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Steric Acid ---------- No Effect
Stoddard Solvent ---------- **Severe Effect**
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Liquors ---------- No Effect
Sulfite Liquors ---------- No Effect
Sulfur ---------- Minor Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide ---------- Minor Effect
Sulfur Dioxide, Dry ---------- Minor Effect
Sulfur Trioxide ---------- Minor Effect
Sulfuric Acid (Conc) ---------- No Effect
Sulfuric Acid (Fuming) ---------- Minor Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 25% ---------- No Effect
Sulfuric Acid, 50% ---------- No Effect
Sulfuric Acid, 60% ---------- No Effect
Sulfuric Acid, 75% ---------- Minor Effect
Sulfuric Acid, 95% ---------- No Effect
Sulfuric Acid, 98.5% ---------- Minor Effect
Sulfurous Acid ---------- Minor Effect
Tall Oil (Liquid Rosin) ---------- No Effect
Tannic Acid ---------- Minor Effect
Tanning Liquors ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- Minor Effect

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Terpineol ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrahydronaphthalene ---------- No Effect
THIO-RED ---------- No Effect
Thionyl Chloride ---------- No Effect
Tin-Fluoborate Plating 100 F ---------- No Effect
Tin-Lead Plating 100 F ---------- No Effect
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- No Effect
Transformer Oil ---------- No Effect
Transmission Fluid ---------- No Effect
Trichloroacetic Acid ---------- Minor Effect
Trichlorobenzenes ---------- Minor Effect
Trichloroethane ---------- No Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- No Effect
Triethyl Amine ---------- No Effect
Trimethylene Glycol ---------- No Effect
Tung Oil ---------- No Effect
Turpentine ---------- No Effect
Urine ---------- No Effect
Varnish ---------- No Effect
Vegetable Oils ---------- No Effect
Vinegar ---------- No Effect
Vinyl Acetate ---------- No Effect
Vinyl Chloride ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Waxes ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect

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White Oil ---------- No Effect
White Sulfate Liquor ---------- Minor Effect
Wines ---------- No Effect
Wort, Distillery ---------- No Effect
Xylene ---------- No Effect
Zeolite ---------- No Effect
Zinc Carbonate ---------- Minor Effect
Zinc Chloride ---------- Moderate Effect
Zinc Plating, Acid Chloride 140 F ---------- **Severe Effect**
Zinc Plating, Acid Sulfate Bath 150 F -------- No Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Sulfate ---------- Moderate Effect

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Heavy Water

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**

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HEF-2 (High Energy Fuel)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
VITON	No Effect

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Helium

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Heptanal

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Heptane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Moderate Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect

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POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
VITON ---------- No Effect

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Hexalin

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	Moderate Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Hexamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
KALREZ	No Effect

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Hexanal

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Hexane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**

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POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	Moderate Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	Minor Effect
SILICONE	No Effect
TEFLON	No Effect
VITON	No Effect

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Hexanol, Tertiary

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	Moderate Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Hexyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Hexylene Glycol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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High Viscosity Lubricant, H2

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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High Viscosity Lubricant, U4

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Hilo MS #1

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Honey

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Houghto-Safe 1010, Phosphate Ester

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
VITON	No Effect

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Houghto-Safe 1055, Phosphate Ester

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
VITON	No Effect

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Houghto-Safe 1120, Phosphate Ester

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Houghto-Safe 271 (Water & Glycol Base)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	Minor Effect

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Houghto-Safe 5040 (Water/Oil Emulsion)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Houghto-Safe 620Water/Glycol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	Minor Effect

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Hydraulic Oil

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPT	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	No Effect
MONEL	No Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Hydraulic Oils (Petroleum)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Hydraulic Oils (Synthetic)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Hydrazine

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	Moderate Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
SILICON	**Severe Effect**
SILICONE	**Severe Effect**
TEFLON	No Effect
VINYL	Moderate Effect
VITON	**Severe Effect**

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Hydrazine (Diamine)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Hydrobomic Acid, 20%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NORPRENE	Moderate Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Hydrobromic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect

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TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- No Effect

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Hydrobromic Acid 40%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrobromic Acid, 20%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC	Minor Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Hydrocarbons (Saturated)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Hydrocarbons, Pure

Material Compatibility

MATERIAL	EFFECT
CERAMIC BARIUM FERRITE	No Effect
ECTFE	No Effect
EPT	**Severe Effect**
HYPALON	Moderate Effect
MONEL	No Effect
NORYL	**Severe Effect**
POLYPROPYLENE	No Effect
RYTON	No Effect
VITON	Minor Effect

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Hydrochloric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC BARIUM FERRITE	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Moderate Effect
EPT	Minor Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- **Severe Effect**
TEFLON ---------- No Effect
VITON ---------- Moderate Effect

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Hydrochloric Acid (Conc.)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	Moderate Effect
NORPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RYTON	No Effect
SILICONE	Moderate Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Hydrochloric Acid (Dilute)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	Moderate Effect
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Hydrochloric Acid (Dry Gas)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
PVC	No Effect
TEFLON	No Effect

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Hydrochloric Acid 20%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CAST IRON	Moderate Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrochloric Acid, 100%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	Moderate Effect
EPOXY	No Effect
HASTELLOY C	Moderate Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
TYGON (E-3606)	No Effect
VITON	Moderate Effect

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Hydrochloric Acid, 20%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
MONEL	**Severe Effect**
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	**Severe Effect**
TEFLON	No Effect
TITANIUM	Moderate Effect
TYGON (E-3606)	Minor Effect

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VITON ---------- No Effect

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Hydrochloric Acid, 37%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	**Severe Effect**
CERAMIC	Moderate Effect
CYCOLAC (ABS)	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	Minor Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	Moderate Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Hydrochloric Acid 3 Molar

Material Compatibility

MATERIAL	EFFECT
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	No Effect

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Hydrochloric Acid Concentrated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	No Effect
E.P.D.M.	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	No Effect

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Hydrocyanic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	Moderate Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Hydrocyanic Acid (Gas 10%)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
NEOPRENE	Moderate Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
TEFLON	No Effect

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Hydrofluoric Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC BARIUM FERRITE	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
HASTELLOY C	Moderate Effect
HYPALON	Moderate Effect
MONEL	Moderate Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Hydrofluoric Acid 65% or less, Cold

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	No Effect

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Hydrofluoric Acid 65% or Less, Hot

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	No Effect

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Hydrofluoric Acid 65% or More, Cold

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	Minor Effect

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Hydrofluoric Acid 65% or More, Hot

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	**Severe Effect**

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Hydrofluoric Acid Anhydrous

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
VITON	**Severe Effect**

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Hydrofluoric Acid, (Conc)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
CAST IRON	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Hydrofluoric Acid, 100%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE	**Severe Effect**
PVC	Moderate Effect
RUBBER (Natural)	**Severe Effect**
RYTON	Moderate Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
TYGON (E-3606)	**Severe Effect**

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Hydrofluoric Acid, 20%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	**Severe Effect**
CERAMIC	Moderate Effect
EPOXY	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	Moderate Effect
RYTON	Moderate Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Hydrofluoric Acid, 50%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC ALUMINA	**Severe Effect**
CERAMIC BARIUM FERRITE	**Severe Effect**
ECTFE	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	Moderate Effect
POLYSULFONE	Moderate Effect
PVC	No Effect
RYTON	Moderate Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VINYL	No Effect
VITON	Moderate Effect

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Hydrofluoric Acid, 75%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	**Severe Effect**
CERAMIC	**Severe Effect**
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	Moderate Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Minor Effect
PVC	Moderate Effect
RUBBER (Natural)	Moderate Effect
RYTON	Moderate Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	**Severe Effect**
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Hydrofluosilicic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC BARIUM FERRITE	**Severe Effect**
ECTFE	No Effect
EPOXY	Moderate Effect
EPT	Moderate Effect
HASTELLOY C	Moderate Effect
HYPALON	Moderate Effect
MONEL	No Effect
NEOPRENE	No Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
SILICON	**Severe Effect**
TEFLON	Minor Effect
TYGON (E-3606)	Moderate Effect
VITON	**Severe Effect**

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Hydrofluosilicic Acid, 20%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
NORYL	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Hydrogen

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrogen Chloride Gas

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect

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Hydrogen Cyanide Gas

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect

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Hydrogen Fluoride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect

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Hydrogen Fluoride, Anhydrous

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrogen Gas

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
EPOXY	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrogen Gas (Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrogen Gas (Hot)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrogen Peroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Minor Effect
NEOPRENE	**Severe Effect**

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NORYL ---------- Minor Effect
NYLON (Polyamide) ---------- **Severe Effect**
PHENOLIC ---------- **Severe Effect**
POLYACETAL ---------- **Severe Effect**
POLYCARBONATE (LEXAN) ---------- No Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- **Severe Effect**
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- Minor Effect
TYGON (E-3606) ---------- Moderate Effect
VITON ---------- **Severe Effect**

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Hydrogen Peroxide (Dilute)

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect

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Hydrogen Peroxide, 10%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	**Severe Effect**
TEFLON	No Effect
TITANIUM	Moderate Effect
TYGON (E-3606)	No Effect
VITON	No Effect

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Hydrogen Peroxide, 3%

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Hydrogen Peroxide, 30%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
TITANIUM	Minor Effect
VITON	No Effect

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Hydrogen Peroxide, 50%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
BUNA	Moderate Effect
ECTFE	No Effect
EPT	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HYPALON	Minor Effect
MONEL	**Severe Effect**
NORPRENE	No Effect
NORYL	No Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RYTON	**Severe Effect**
SILICONE	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Hydrogen Peroxide, 90%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYSULFONE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Hydrogen Phosphide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect

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Hydrogen Sulfide

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
BUNA	Minor Effect
CARBON	**Severe Effect**
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	Moderate Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
MONEL	**Severe Effect**
NORYL	No Effect
PHENOLIC	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Hydrogen Sulfide (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
CARBON STEEL	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NYLON (Polyamide)	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Hydrogen Sulfide Dry, Cold

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	**Severe Effect**

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Hydrogen Sulfide Dry, Hot

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
VITON	**Severe Effect**

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Hydrogen Sulfide Wet, Cold

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
VITON	**Severe Effect**

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Hydrogen Sulfide Wet, Hot

Material Compatibility

MATERIAL	EFFECT
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
VITON	**Severe Effect**

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Hydrogen Sulfide, Aqueous

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	Moderate Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NEOPRENE	Moderate Effect
NORPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect

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VITON ---------- **Severe Effect**

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Hydrolube-Water/Ethylene Glycol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Hydroquinone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Hydroxyacetic Acid, 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
NEOPRENE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Hydroxyacetic Acid, 70%

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
NEOPRENE	No Effect
POLYACETAL	**Severe Effect**
PVC	No Effect
TITANIUM	Minor Effect
VITON	No Effect

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Hydyne

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
VITON	**Severe Effect**

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HYPALON

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Moderate Effect
Acetate Solvents	**Severe Effect**
Acetic Acid	Moderate Effect
Acetic Acid, 5%	Moderate Effect
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	Moderate Effect
Acetone	**Severe Effect**
Acetyl Chloride	**Severe Effect**
Alcohol	Minor Effect
Alcohol, Amyl	Moderate Effect
Alcohol, Benzyl	Moderate Effect
Alcohol, Butyl	No Effect
Alcohol, Diacetone	**Severe Effect**
Alcohol, Ethyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Propyl	No Effect
Alum	Minor Effect
Aluminum Ammonium Sulfate	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride	Minor Effect
Aluminum Hydroxide	No Effect
Aluminum Sulfate	No Effect
Alums	No Effect
AMERSEP MP-7	No Effect
Amines	**Severe Effect**
Ammonia	**Severe Effect**
Ammonia, Anhydrous, Liquid	**Severe Effect**
Ammonium Carbonate	No Effect
Ammonium Chloride	Minor Effect
Ammonium Dihydrogen Phosphate	No Effect
Ammonium Hydroxide	Minor Effect

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Ammonium Nitrate ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Sulfate ---------- Minor Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aqua Ammonia ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Fluoride ---------- Moderate Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- Minor Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfide ---------- Moderate Effect
Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- **Severe Effect**
Benzoic Acid ---------- **Severe Effect**
Black Liquor ---------- Minor Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Borax ---------- **Severe Effect**
Boric Acid ---------- Moderate Effect
Brake Fluid ---------- **Severe Effect**
Bromine Water ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Butadiene ---------- **Severe Effect**
Butane ---------- Moderate Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Alcohol ---------- **Severe Effect**
Butylene ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Calcium Bisulfite ---------- Minor Effect

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Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide ---------- Minor Effect
Calcium Hypochlorite ---------- No Effect
Calcium Hypochlorite, 5% 70 F ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Sulfate ---------- No Effect
Carbon Bisulfide ---------- Minor Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Tetrachloride ---------- **Severe Effect**
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Caustic Liquid ---------- No Effect
Caustic Soda ---------- Minor Effect
Chlorinated Solvents ---------- **Severe Effect**
Chlorinated Water, Saturate ---------- Minor Effect
Chlorine ---------- **Severe Effect**
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine Water ---------- No Effect
Chloroacetic Acid ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chrome Alum ---------- No Effect
Chromic Acid ---------- Moderate Effect
Chromic Acid, 10% ---------- **Severe Effect**
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Citric Acid ---------- Moderate Effect
Copper Chloride ---------- Moderate Effect
Copper Cyanide ---------- No Effect
Copper Fluoride ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Sulfate ---------- Minor Effect
Corn Oil ---------- Moderate Effect

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Cottonseed Oil ---------- No Effect
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Cyclohexanol ---------- **Severe Effect**
Detergent Solutions ---------- **Severe Effect**
Dextrose ---------- No Effect
Dichloroethane ---------- **Severe Effect**
Diethylamine ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Dinitrotoluene ---------- **Severe Effect**
Dioctylphthalate ---------- **Severe Effect**
Diphenyl Oxide ---------- **Severe Effect**
Disodium Phosphate ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Alcohol ---------- Minor Effect
Ethyl Cellosolve ---------- **Severe Effect**
Ethyl Chloride ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethylene Bromide ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- Moderate Effect
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- **Severe Effect**
Ethylene Oxide ---------- **Severe Effect**
Fatty Acids ---------- **Severe Effect**
Ferric Chloride ---------- **Severe Effect**
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- Minor Effect
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- No Effect

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Formaldehyde ---------- **Severe Effect**
Formic Acid ---------- No Effect
Freon ---------- Minor Effect
Freon 12 ---------- No Effect
Freon 12,13,22,114,115 ---------- No Effect
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Gallic Acid ---------- Moderate Effect
Gasoline (Petrol) ---------- **Severe Effect**
Gasoline, Refined ---------- **Severe Effect**
Glucose ---------- Moderate Effect
Glycerine or Glycerol ---------- Minor Effect
Heptane ---------- Moderate Effect
Hexane ---------- Moderate Effect
Hexanol, Tertiary ---------- Moderate Effect
Hydraulic Oil ---------- No Effect
Hydrazine ---------- No Effect
Hydrobomic Acid, 20% ---------- No Effect
Hydrocarbons, Pure ---------- Moderate Effect
Hydrochloric Acid ---------- Moderate Effect
Hydrochloric Acid (Conc.) ---------- **Severe Effect**
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid, 20% ---------- Minor Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid ---------- Moderate Effect
Hydrofluoric Acid, 50% ---------- No Effect
Hydrofluosilicic Acid ---------- Moderate Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 50% ---------- Minor Effect
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide ---------- Minor Effect
Hydrogen Sulfide, Aqueous ---------- Moderate Effect
Hypochlorous Acid ---------- **Severe Effect**
Iodine ---------- Minor Effect

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Iodine ---------- **Severe Effect**
Isopar G ---------- Moderate Effect
Isopropyl Alcohol ---------- No Effect
Kerosene ---------- **Severe Effect**
Lacquer Solvents ---------- **Severe Effect**
Lactic Acid, 25% ---------- Moderate Effect
Lard Oil ---------- **Severe Effect**
Lead Acetate ---------- **Severe Effect**
Lime, 30% ---------- No Effect
Linoleic Acid ---------- **Severe Effect**
Linseed Oil ---------- Moderate Effect
Lubricating Oils ---------- **Severe Effect**
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydorxide ---------- Minor Effect
Magnesium Nitrate ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfide ---------- Minor Effect
Maleic Acid ---------- **Severe Effect**
Malic Acid ---------- Moderate Effect
Manganese Chloride ---------- Minor Effect
Manganese Sulfate ---------- Minor Effect
Mercuric Chloride ---------- No Effect
Mercuric Sulfate ---------- Minor Effect
Mercury ---------- No Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Milk ---------- Moderate Effect
Mineral Oils ---------- **Severe Effect**
Mustard ---------- Moderate Effect
Naphtha, Petroleum ---------- **Severe Effect**
Naphthalene ---------- **Severe Effect**
Nickel Chloride ---------- Minor Effect
Nickel Sulfate ---------- Minor Effect

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Nitric Acid ---------- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- **Severe Effect**
Nitric Oxide ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Oil - No. 1 ASTM ---------- **Severe Effect**
Oil - No. 3 ASTM ---------- **Severe Effect**
Oleic Acid ---------- **Severe Effect**
Oleum ---------- No Effect
Olive Oil ---------- Moderate Effect
Oxalic Acid ---------- Moderate Effect
Palmitic Acid ---------- **Severe Effect**
Perchloric Acid, 10% ---------- Moderate Effect
Perchloric Acid, 70% ---------- Moderate Effect
Perchloroethylene ---------- Moderate Effect
Petroleum Oils (Sour) ---------- Moderate Effect
Phenol ---------- **Severe Effect**
Phosphoric Acid ---------- Moderate Effect
Phosphoric Acid, 25% ---------- Moderate Effect
Phosphoric Acid, 50% ---------- Moderate Effect
Phosphorus Trichloride ---------- **Severe Effect**
Photographic Developers ---------- Moderate Effect
Photographic Fixer ---------- Moderate Effect
Picric Acid ---------- No Effect
Plating Solutions ---------- Moderate Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Dichromate 40% ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- Minor Effect

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Potassium Nitrate ---------- Minor Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Sulfate ---------- Minor Effect
Propylene Glycol ---------- **Severe Effect**
Sea Water ---------- No Effect
Silicone Oils ---------- **Severe Effect**
Silver Nitrate ---------- No Effect
Soaps ---------- No Effect
Sodium Acetate ---------- **Severe Effect**
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- No Effect
Sodium Cyanide ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Hydrosulfite ---------- Minor Effect
Sodium Hydroxide ---------- No Effect
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Iodide ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Nitrate ---------- Minor Effect
Sodium Peroxide ---------- Moderate Effect
Sodium Phosphate ---------- Minor Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect
Sodium Sulfite ---------- Minor Effect
Sodium Thiosulfate ---------- Minor Effect
Soybean Oil ---------- **Severe Effect**
Stannic Chloride ---------- Minor Effect

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Stannous Chloride ---------- Minor Effect
Steric Acid ---------- **Severe Effect**
Sulfur ---------- Moderate Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfur Trioxide ---------- **Severe Effect**
Sulfuric Acid ---------- Moderate Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 75% ---------- No Effect
Sulfuric Acid, 98.5% ---------- **Severe Effect**
Sulfurous Acid ---------- Moderate Effect
Tannic Acid ---------- Moderate Effect
Tetrachloroethane ---------- **Severe Effect**
Tetraethyl Lead ---------- **Severe Effect**
Tetrahydrofuran ---------- **Severe Effect**
THIO-RED ---------- No Effect
Tributyl Phosphate ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Triethanolamine ---------- Moderate Effect
Turpentine ---------- **Severe Effect**
Vegetable Oils ---------- **Severe Effect**
Vinegar ---------- Minor Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- Minor Effect
Water, Glycol ---------- **Severe Effect**
Water, Salt ---------- No Effect
Wetting Agents ---------- No Effect
Whiskey ---------- No Effect
Wines ---------- No Effect
Xylene ---------- **Severe Effect**
Zinc Chloride ---------- Minor Effect
Zinc Sulfate ---------- Moderate Effect

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Hypochlorous Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Hypoid Grease (Parapoid 10-C)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect

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Hypochlorities, Sodium

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect

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Illuminating Gas

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect

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Indium Sulfamate Plating R.T.

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Ink

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Ink (Printers)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Iodine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	Moderate Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	No Effect
NEOPRENE	**Severe Effect**

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NORPRENE ---------- No Effect
NORYL ---------- **Severe Effect**
NYLON (Polyamide) ---------- **Severe Effect**
POLYACETAL ---------- Moderate Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- **Severe Effect**
POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Iodine (In Alcohol)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
BUNA	**Severe Effect**
CERAMIC	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	Minor Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Iodine Pentafluoride

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Iodoform

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	Minor Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Iron Plating, Ferrous Am. Sulfate Bath 150 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Iron Plating, Ferrous Chloride Bath 190 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	Minor Effect
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Iron Plating, Ferrous Sulfate Bath 150 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Iron Plating, Fluoborate Bath 145 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	Minor Effect
CERAMIC	**Severe Effect**
EPOXY	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Iron Plating, Sulfamate 140 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Iron Plating, Sulfate-Chloride Bath 160 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	Minor Effect
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	**Severe Effect**
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Iso Butane

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Iso-Butyl N-Butyrate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
VITON	No Effect

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Isoamyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Isoamyl Alcohol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Isoamyl Butyrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Isoamyl Chloride

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Isobutyl Acetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Isobutyl Alcohol

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	Minor Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Isobutyl Amine

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Isobutyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Isobutyric Acid

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect

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Isododecane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Isooctane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Isopar G

Material Compatibility

MATERIAL	EFFECT
ECTFE	No Effect
EPT	**Severe Effect**
HYPALON	Moderate Effect
MONEL	No Effect
NORYL	**Severe Effect**
POLYPROPYLENE	No Effect
RYTON	No Effect
VITON	No Effect

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Isopentane

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
TEFLON	No Effect
VITON	No Effect

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Isophorone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Isopropanol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Isopropyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Isopropyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	Moderate Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Isopropyl Amine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
FLOURAZ	Minor Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Isopropyl Benzene

Material Compatibility

MATERIAL	EFFECT
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
VITON	No Effect

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Isopropyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Isopropyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Isotane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
VITON	No Effect

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Jet Fuel (JP3,JP4,JP5)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Jet Fuels (JP1 to JP6)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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JP-1

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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JP-2

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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JP-3 (Mil-J-5624)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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JP-4 (Mil-J-5624)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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JP-5 (Mil-J-5624)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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JP-6 (Mil-J-25656)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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JP-X (Mil-F-25604)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	Minor Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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KALREZ

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetamide	No Effect
Acetic Acid 100% Boiling	No Effect
Acetic Acid, 100% Solution	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 50% Boiling	No Effect
Acetic Acid, 80%	No Effect
Acetic Acid, 80% Boiling	No Effect
Acetic Anhydride	No Effect
Acetone	No Effect
Acetone Cyanohydrin	No Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acrolein (Acrylaldehyde)	No Effect
Acrylonitrile	No Effect
Alcohol, Butyl	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Alum	No Effect
Aluminum Acetate	No Effect
Aluminum Chloride	No Effect
Aluminum Fluoride	No Effect
Aluminum Hydroxide	No Effect
Aluminum Nitride	No Effect
Aluminum Potassium Sulfate	No Effect
Aluminum Sulfate	No Effect
AMERSEP MP-7	No Effect
Amines	No Effect
Ammonia Gas, Cold	No Effect

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Ammonia Gas, Hot ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonium Bicarbonate ---------- No Effect
Ammonium Bifluoride, 10% ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Chloride, 1% ---------- No Effect
Ammonium Chloride, 10% Solution Boiling ------ No Effect
Ammonium Chloride, 28% Solution Boiling ------ No Effect
Ammonium Chloride, 50% Solution Boiling ------ No Effect
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- No Effect
Ammonium Fluoride ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Persulfate, 10% ---------- No Effect
Ammonium Persulfate, 5% ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfamate ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Thiocyanate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- No Effect
Amyl Chloronaphthalene ---------- No Effect
Aniline ---------- No Effect
Aniline Dyes ---------- No Effect
Aniline Hydrochloride ---------- No Effect
Anthraquinone ---------- No Effect

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Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Chloride ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Regia ---------- No Effect
Argon ---------- No Effect
Arochlor 1248 ---------- No Effect
Aromatic Fuel 30% Mil. ---------- No Effect
Aromatic Fuel 50% ---------- No Effect
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- No Effect
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Benzaldehyde ---------- No Effect
Benzoic Acid ---------- No Effect
Benzophenone ---------- No Effect
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- No Effect
Benzyl Benzoate ---------- No Effect
Benzyl Chloride ---------- No Effect
Bichloride of Mercury ---------- No Effect
Bismuth Subcarbonate ---------- No Effect
Bleach Solutions ---------- No Effect
Borax ---------- No Effect
Brine ---------- No Effect
Bromine (Dry) ---------- No Effect
Bromine (Wet) ---------- Minor Effect
Bromine Trifluoride ---------- Minor Effect
Bromobenzene ---------- No Effect

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Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butanol ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Amine ---------- No Effect
Butyl Butyrate ---------- No Effect
Butyl Chloride ---------- No Effect
Butyl Stearate ---------- No Effect
Butylene ---------- No Effect
Cadmium Sulfate (25% Concentration) ---------- No Effect
Calcium Acetate ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Cyanide ---------- No Effect
Calcium Hydrosulfide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- No Effect
Calcium Sulfate - Saturated ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Calgon ---------- No Effect
Camphor ---------- No Effect
Caproic Aldehyde ---------- No Effect
Carbitol ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Dioxide, Wet ---------- No Effect

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Carbon Disulfide ---------- No Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride-Aqueous Solution 5%-10% - No Effect
Carbon Tetrachloride-Pure ---------- No Effect
Casein ---------- No Effect
Caustic ---------- No Effect
Cellosolve ---------- No Effect
Cellosolve Acetate ---------- No Effect
Cellosolve Butyl ---------- No Effect
Chlorine Trifluoride ---------- Minor Effect
Chlorine, Anhydrous Liquid ---------- Minor Effect
Chlorine, Dry ---------- Minor Effect
Chlorine, Wet ---------- Minor Effect
Chloroacetone ---------- No Effect
Chlorobenzene ---------- No Effect
Chlorobromomethane ---------- No Effect
Chloroform ---------- No Effect
Chloropicrin ---------- No Effect
Chlorotoluene ---------- No Effect
Chrome Alum ---------- No Effect
Chromium Sulfate (Basic) ---------- No Effect
Cobalt Chloride ---------- No Effect
Copper Acetate ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Creosote, Coal-Tar ---------- No Effect
Crotonaldehyde ---------- No Effect
Cumeme ---------- No Effect
Cyclohexane ---------- No Effect
Cyclohexanol ---------- No Effect
Cyclohexanone ---------- No Effect

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D.D.T. ---------- No Effect
Dextrose ---------- No Effect
Diacetone Alcohol ---------- No Effect
Diamylamine ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibutyl Amine ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Diemethyl Formamide ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Benzene ---------- No Effect
Diethyl Carbonate ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diethyl Sulfate ---------- No Effect
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Dimethyl Phthalate ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioxane ---------- No Effect
Dipentene ---------- No Effect
Diphenyl ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dow Corning (Silicones) ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Epichlorohydrin ---------- No Effect
Ethane ---------- No Effect
Ethanol ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- No Effect

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Ethyl Acetate ---------- No Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Cellosolve ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Chlorocarbonate ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Mercaptan ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- No Effect
Ethylene ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Hydroxide ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate (Copperas) ---------- No Effect
Fluorine ---------- No Effect
Fluorine (Anhydrous) ---------- No Effect
Formaldehyde ---------- Minor Effect
Formaldehyde (Hot) ---------- Minor Effect
Formamide ---------- No Effect
Freon 11 ---------- Minor Effect

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Freon 113 ---------- Minor Effect
Freon 114 ---------- Minor Effect
Freon 115 ---------- Minor Effect
Freon 12 ---------- Minor Effect
Freon 13 ---------- Minor Effect
Freon 13B1 ---------- Minor Effect
Freon 14 ---------- Minor Effect
Freon 21 ---------- No Effect
Freon 22 ---------- No Effect
Freon 502 ---------- Minor Effect
Furfural ---------- No Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- No Effect
Glauber's Salt ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycols ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- No Effect
Hexamine ---------- No Effect
Hexane ---------- No Effect
Hexylene Glycol ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrocarbons (Saturated) ---------- No Effect
Hydrogen ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- No Effect
Hydrogen Sulfide Wet, Cold ---------- No Effect
Hydrogen Sulfide Wet, Hot ---------- No Effect
Hydroquinone ---------- No Effect
Ink (Printers) ---------- No Effect

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Iodine ---------- No Effect
Iodoform ---------- Minor Effect
Iso Butane ---------- No Effect
Isobutyl Acetate ---------- No Effect
Isobutyl Alcohol ---------- No Effect
Isobutyl Chloride ---------- No Effect
Isododecane ---------- No Effect
Isooctane ---------- No Effect
Isopentane ---------- No Effect
Isophorone ---------- No Effect
Isopropanol ---------- No Effect
Isopropyl Acetate ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- No Effect
Isopropyl Ether ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
Kerosene ---------- No Effect
Lacquers ---------- No Effect
Lead Acetate ---------- No Effect
Lead Chloride ---------- No Effect
Lead Nitrate ---------- No Effect
Liquid Petroleum Gas (LPG) ---------- No Effect
Lithium Bromide ---------- No Effect
Lithium Chloride ---------- No Effect
Lithium Hydroxide ---------- No Effect
Lye ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfite ---------- No Effect
Maleic Anhydride ---------- No Effect
Manganese Chloride ---------- No Effect
Melamine Resins ---------- No Effect
Mercaptan ---------- No Effect
Mercuric Chloride ---------- No Effect

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Mercury ---------- No Effect
Mercury Salts ---------- No Effect
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetoacetate ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Benzoate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Cyanide ---------- No Effect
Methyl Dichloride ---------- No Effect
Methyl Ether ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- No Effect
Methyl Methacrylate ---------- No Effect
Methyl Salicylate ---------- No Effect
Methylamine ---------- No Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- No Effect
Mine Water ---------- No Effect
Monobromobenzene ---------- No Effect
Monoethanolamine ---------- No Effect
N-Butyl Benzoate ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Pentane ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Natural Gas ---------- No Effect
Nickel Acetate ---------- No Effect
Nickel Ammonium Sulfate ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect

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Nickel Sulfate ---------- No Effect
Nicotine ---------- No Effect
Nitrobenzene ---------- No Effect
Nitroethane ---------- No Effect
Nitrogen ---------- No Effect
Nitrogen Tetroxide ---------- No Effect
Nitroglycerine ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrosyl Chloride ---------- No Effect
Nitrous Oxide ---------- No Effect
O-Chlorphenol ---------- No Effect
Octyl Acetate ---------- No Effect
Octyl Alcohol ---------- No Effect
Oils, Crude ---------- No Effect
Olein ---------- No Effect
Oleum (Fuming Sulfuric Acid) ---------- No Effect
Ortho-Dichlorobenzene ---------- No Effect
Oxygen, Cold ---------- No Effect
P-Cymene ---------- No Effect
Paints & Solvents ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- Minor Effect
Pentane, 2 Methyl ---------- No Effect
Perchloroethylene ---------- Minor Effect
Petrolatum ---------- No Effect
Petroleum Ether ---------- No Effect
Phenol ---------- No Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phenolic Sulphonate ---------- No Effect
Phenyl Acetate ---------- No Effect
Phosphorous ---------- No Effect
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- No Effect
Phthalic Anhydride ---------- No Effect

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Plating Solution, Chrome ---------- No Effect
Plating Solution, Others ---------- No Effect
Polyvinyl Acetate Emulsion ---------- No Effect
Potassium Acetate ---------- No Effect
Potassium Alum ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Cupro Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Diphosphate ---------- No Effect
Potassium Ferricyanide ---------- No Effect
Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 50% Solution (Boiling) -- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Hydroxide, 70% Solution (Hot) ------ No Effect
Potassium Hypochlorite ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Oxalate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Peroxide ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfide ---------- No Effect
Potassium Sulfite ---------- No Effect
Potassium Triphosphate ---------- No Effect
Propane ---------- No Effect
Propionaldehyde ---------- No Effect
Propyl Acetate ---------- No Effect
Propyl Alcohol ---------- No Effect

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Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- No Effect
Pyridine ---------- No Effect
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Resorcinel ---------- No Effect
Rosin ---------- No Effect
Sal Ammoniac ---------- No Effect
Salt Water ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Silver Bromide ---------- No Effect
Silver Chloride ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Soap Solutions ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bichromate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Bromide ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- No Effect

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Sodium Fluoride ---------- No Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect
Sodium Hyposulfate ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Orthosilicate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- No Effect
Sodium Phosphate (Dibasic) ---------- No Effect
Sodium Phosphate (Mono) ---------- No Effect
Sodium Phosphate (Tribasic) ---------- No Effect
Sodium Pyrophosphate ---------- No Effect
Sodium Resinate ---------- No Effect
Sodium Salicylate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Tetraphosphate ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Sodium Triphosphate ---------- No Effect
SP-90X ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Starch ---------- No Effect
Steam, Below 350 F ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect

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Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfur ---------- No Effect
Sulfur (Molten) ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Hexafluoride ---------- Minor Effect
Sulfur Trioxide ---------- No Effect
Sulfur Trioxide (Dry) ---------- No Effect
Syrup ---------- No Effect
Tallow, Molten ---------- No Effect
Tannin ---------- No Effect
Tar and Tar Oil ---------- No Effect
Terpineol ---------- No Effect
Tetrachloroethane ---------- Minor Effect
Tetrachloroethylene ---------- Minor Effect
Tetrahydrofuran ---------- No Effect
Tetralin ---------- No Effect
Tetraphosphoglucosate ---------- No Effect
THIO-RED ---------- No Effect
Thionyl Chloride ---------- No Effect
Tin Tetrachloride ---------- No Effect
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tributyl Phosphate ---------- No Effect
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- No Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- Minor Effect
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- No Effect

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Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Triethylene Glycol ---------- No Effect
Triphenyl Phosphsite ---------- No Effect
Tripotassium Phosphate +H2O ---------- No Effect
Trisodium Phosphate ---------- No Effect
Turpentine ---------- No Effect
Varnish ---------- No Effect
Vinyl Chloride ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
White Sulfate Liquor ---------- No Effect
Xylene ---------- No Effect
Xylidenes, Mixed, Aromatic ---------- No Effect
Zeolite ---------- No Effect
Zinc Acetate ---------- No Effect
Zinc Ammonium Chloride ---------- No Effect
Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Nitrate ---------- No Effect
Zinc Sulfate ---------- No Effect

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Kel F Liquids

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
VITON	Minor Effect

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Kerosene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect

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POLYACETAL ---------- No Effect
POLYCARBONATE (LEXAN) ---------- **Severe Effect**
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- Minor Effect
POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- Moderate Effect
POLYSULFONE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Minor Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- No Effect
VITON ---------- No Effect

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Ketones

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
TEFLON	No Effect

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TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Keystone #87HX-Grease

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Lacquer Solvents

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Lacquer Thinners

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CERAMIC	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYPROPYLENE	Minor Effect
PVC	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect

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Lacquers

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**

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RUBBER (Natural) ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Lactam-Amino Acids

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
VITON	**Severe Effect**

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Lactic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	Moderate Effect
ALUMINUM	Moderate Effect
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	Minor Effect

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Lactic Acid 10% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Lactic Acid, 25%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NORPRENE	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RYTON	No Effect
SILICONE	Moderate Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Lactic Acid, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Lactol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Lard

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Moderate Effect
EPOXY	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
SILICON	Moderate Effect
VITON	No Effect

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Lard Oil

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	Moderate Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect
VITON	No Effect

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Lard Oil (Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Lard Oil (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Latex

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Lauric Acid

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect

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Lauryl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Lavender Oil

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
NORPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Lead Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect

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POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Lead Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect

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Lead Fluoborate Plating

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	Minor Effect
CERAMIC	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Lead Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
VITON	No Effect

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Lead Sulfamate

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
NEOPRENE	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
SILICON	Moderate Effect
TEFLON	Minor Effect
VITON	No Effect

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Lead Sulphamate

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect

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LEATHER/THIOKOL IMPREGNATED

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Air Free	**Severe Effect**
Acetic Acid Aerated	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Anhydride	Minor Effect
Acetone	Minor Effect
Acetylene (Ethyne)	No Effect
Alcohol	No Effect
Alcohol, Methyl	Minor Effect
Aluminum Sulfate	No Effect
AMERSEP MP-7	No Effect
Amines	**Severe Effect**
Ammonia, Anhydrous, Liquid	**Severe Effect**
Ammonium Bicarbonate	No Effect
Ammonium Carbonate	No Effect
Ammonium Chloride, 1%	No Effect
Ammonium Diphosphate	No Effect
Ammonium Hydroxide	Minor Effect
Ammonium Nitrate	No Effect
Amyl Acetate	Minor Effect
Aniline Dyes	Minor Effect
Arsenic Acid	Minor Effect
Asphalt	No Effect
Barium Carbonate	No Effect

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Barium Chloride, 5% ---------- No Effect
Barium Hydroxide ---------- Minor Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzoic Acid ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect
Bromine Water ---------- **Severe Effect**
Butadiene ---------- Minor Effect
Butane ---------- Minor Effect
Buttermilk ---------- No Effect
Butyric Acid ---------- Minor Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- Minor Effect
Calcium Hypochlorite ---------- **Severe Effect**
Carbolic Acid ---------- **Severe Effect**
Carbon Bisulfide ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Chloracetic Acid ---------- Minor Effect
Chloroacetic Acid ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect

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Copper Sulfate, 5%	No Effect
Copper Sulphate, Saturated Solution (Boiling)	No Effect
Corn Oil	No Effect
Cottonseed Oil	No Effect
Creosote, Coal-Tar	**Severe Effect**
Creosote, Wood-Tar	**Severe Effect**
Cresylic Acid	**Severe Effect**
Diesel Oil (Fuel ASTM #2)	No Effect
Epsom Salts	No Effect
Ethers	Minor Effect
Ethyl Acetate	Minor Effect
Ethyl Alcohol	Minor Effect
Ethyl Chloride (Dry)	**Severe Effect**
Ethylene Dichloride	Minor Effect
Ethylene Oxide	**Severe Effect**
Fatty Acids	No Effect
Ferric Chloride, 1%	No Effect
Ferric Chloride, 1% Solution (Boiling)	No Effect
Ferric Chloride, 10% Solution	No Effect
Ferric Chloride, 5% Agitated or Aerated	No Effect
Ferric Chloride, 5% Solution (Still)	No Effect
Ferric Nitrate	No Effect
Ferrous Sulfate (Saturated)	No Effect
Ferrous Sulfate, 10% Solution	No Effect
Fish Liver Oils	No Effect
Formaldehyde	**Severe Effect**
Formaldehyde (Hot)	**Severe Effect**
Formic Acid (Dilute Cold)	**Severe Effect**
Formic Acid (Dilute Hot)	**Severe Effect**
Fruit Juices	No Effect
Fuel Oil	No Effect
Furfural	**Severe Effect**
Gallic Acid	No Effect
Gasoline (Aviation)	No Effect
Gasoline (Meter)	No Effect
Gasoline (Sour)	No Effect

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Gelatin ---------- No Effect
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- Minor Effect
Hexane ---------- Minor Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- Minor Effect
Hydrochloric Acid ---------- Minor Effect
Hydrocloric Acid Concentrated ---------- Minor Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Sulfide Dry, Cold ---------- Minor Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- Minor Effect
Hydrogen Sulfide Wet, Hot ---------- Minor Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Isopropyl Alcohol ---------- Minor Effect
Kerosene ---------- No Effect
Ketones ---------- Minor Effect
Lacquer Solvents ---------- Minor Effect
Lactic Acid, 5% Solution ---------- Minor Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Lead Acetate ---------- No Effect
Linseed Oil ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- Minor Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Sulfate ---------- No Effect
Maleic Acid ---------- Minor Effect

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Malic Acid ---------- Minor Effect
Manganese Chloride ---------- Minor Effect
Mayonnaise ---------- No Effect
Mercury ---------- No Effect
Methanol (See Alcohol Methyl) ---------- Minor Effect
Methyl Alcohol ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- Minor Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
N-Pentane ---------- Minor Effect
Naptha ---------- No Effect
Napthalene ---------- **Severe Effect**
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitrous Acid ---------- **Severe Effect**
Oleic Acid ---------- No Effect
Oleum Spirits ---------- **Severe Effect**
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 10% Solution (Boiling) ---------- Minor Effect
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Cold ---------- Minor Effect
Paint Thinner, DUCO ---------- No Effect
Palmitic Acid ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- **Severe Effect**
Phenol ---------- **Severe Effect**
Phosphoric Acid, 10% ---------- Minor Effect
Phosphoric Acid, 50% ---------- Minor Effect
Picric Acid, H2O Solution ---------- Minor Effect
Pine Oil ---------- No Effect

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Potassium Bicarbonate ---------- No Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Hydroxide, 5% Solution ---------- **Severe Effect**
Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Permanganate, 5% ---------- Minor Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Propane (Liquefied) ---------- Minor Effect
Salicylic Acid ---------- Minor Effect
Sea Water ---------- No Effect
Silver Nitrate ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Fluoride, 5% ---------- No Effect
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 20% Solution (Hot) ---------- **Severe Effect**
Sodium Hydroxide, 3 Molar ---------- **Severe Effect**
Sodium Hydroxide, 50% Solution (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 70% (Cold) ---------- **Severe Effect**

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Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ------------------------- **Severe Effect**
Sodium Nitrate - Fused ---------------------- No Effect
Sodium Perborate ---------------------------- No Effect
Sodium Peroxide ----------------------------- **Severe Effect**
Sodium Silicate (Hot) ----------------------- No Effect
Sodium Silicate (Water Glass) ---------------- No Effect
Sodium Sulfate ------------------------------ No Effect
Sodium Sulfide ------------------------------ No Effect
Sodium Sulfide - Saturated ------------------ No Effect
Sodium Thiosulfate -------------------------- No Effect
Soybean Oil --------------------------------- No Effect
SP-90X -------------------------------------- No Effect
Stannic Chloride ---------------------------- Minor Effect
Starch -------------------------------------- No Effect
Stearic Acid -------------------------------- No Effect
Stoddard Solvent ---------------------------- No Effect
Sugar (Liquids) ----------------------------- No Effect
Sulphuric Acid, 10% Solution ----------------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% --------------------------- **Severe Effect**
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------------------- **Severe Effect**
Sulphurous Acid - Saturated ----------------- **Severe Effect**
Syrup --------------------------------------- No Effect
Talc Oil ------------------------------------ No Effect
Tannic Acid --------------------------------- Minor Effect
Tartaric Acid ------------------------------- Minor Effect
THIO-RED ------------------------------------ No Effect
Toluene ------------------------------------- Minor Effect
Toluol -------------------------------------- Minor Effect

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Tung Oil	No Effect
Turpentine	Minor Effect
Varnish	Minor Effect
Vegetable Oil (Hot)	No Effect
Vegetable Oils	No Effect
Vinegar	Minor Effect
Water, Distilled	No Effect
Water, Fresh	No Effect
Water, Salt	No Effect
Xylene	Minor Effect
Zinc Chloride	No Effect
Zinc Chloride, 5% Solution	No Effect
Zinc Hydrosulfite	No Effect
Zinc Sulfate	No Effect
Zinc Sulfate, 25% Solution (Boiling)	No Effect
Zinc Sulfate, 5% Solution	No Effect
Zinc Sulfate, Saturated Solution	No Effect

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Lehigh X1169

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Lehigh X1170

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Lemon Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NORPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Light Grease

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Lignin Liquor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ligroin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Lime

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Lime Bleach

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Lime Slurries

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Lime Sulfur

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Lime, 30%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ECTFE	No Effect
HYPALON	No Effect
MONEL	Moderate Effect
NORYL	Minor Effect
POLYPROPYLENE	No Effect

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Lime, Soda

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Limonene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Lindol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Linoleic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Linseed Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	Minor Effect

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PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	No Effect

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Liquid Oxygen

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Liquid Petroleum Gas (LPG)

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect

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Liquimoly

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect

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Liquor, White

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**

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Liquors

Material Compatibility

MATERIAL	EFFECT
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect

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Lithium Bromide

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CAST IRON	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NORPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Lithium Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Lithium Hydroxide

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
KALREZ	No Effect

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Lubricants

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Minor Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Lubricating Oil Di-Ester

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
VITON	No Effect

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Lubricating Oil Petroleum Base

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Lubricating Oil SAE10,20,30,40,50

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Lubricating Oils

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
MONEL	No Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
PHENOLIC	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Lye

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	Moderate Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Lysol

Material Compatibility

MATERIAL	EFFECT
TEFLON	No Effect

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Magnesium Bilsulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
TEFLON	No Effect

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Magnesium Carbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORYL	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Magnesium Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BRASS	Moderate Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide)	Minor Effect
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	Moderate Effect

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Magnesium Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
MONEL	Moderate Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
TEFLON	No Effect

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TITANIUM ---------- No Effect
VITON ---------- **Severe Effect**

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Magnesium Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Magnesium Hydroxide (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Magnesium Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Magnesium Oxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Magnesium Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Magnesium Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect

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RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Magnesium Sulfide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
HYPALON	Minor Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Magnesium Sulfite

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Malathion

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
VITON	No Effect

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Maleic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYPROPYLENE	Moderate Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Maleic Anhydride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	Moderate Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Malic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Moderate Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Moderate Effect
NORPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	Moderate Effect

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Malt Beverages

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Manganese Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	Moderate Effect
FLOURAZ	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Manganese Sulfate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
HYPALON	Minor Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Maple Sugar Liquors

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Mash

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
NORYL	No Effect
POLYACETAL	No Effect
VITON	No Effect

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Mayonnaise

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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MCS 312

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
VITON	No Effect

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MCS 352

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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MCS 463

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Melamine

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
POLYACETAL	**Severe Effect**

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Melamine Resins

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Mercaptan

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
TEFLON	No Effect

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Mercuric Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Mercuric Chloride (Dilute Solution)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	No Effect
VITON	No Effect

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Mercuric Cyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
NORYL	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Mercuric Sulfate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
HYPALON	Minor Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Mercurous Nitrate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Mercury

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- Minor Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- Moderate Effect
VINYL ---------- **Severe Effect**
VITON ---------- No Effect

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Mercury Salts

Material Compatibility

MATERIAL	EFFECT
BRASS	**Severe Effect**
COPPER	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Mercury Vapors

Material Compatibility

MATERIAL	EFFECT
FLOURAZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Mesityl Oxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Methanol (See Alcohol Methyl)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Moderate Effect
ETHYLENE PROPYLENE	Minor Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYACETAL	No Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Acetoacetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Acetone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	Moderate Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Acrylate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYACETAL	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Acrylic Acid

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
NEOPRENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Alcohol, 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CAST BRONZE	Moderate Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NYLON (Polyamide)	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect

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Methyl Amine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Methyl Amyl Acetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Amyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Aniline

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Methyl Benzoate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect

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Methyl Bromide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	Minor Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Methyl Butyl Ketone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Butyrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Methyl Carbonate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Methyl Cellosolve

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	Minor Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Cellulose

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	**Severe Effect**

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Methyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	Minor Effect
PHENOLIC	Moderate Effect
POLYACETAL	No Effect

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POLYETHYLENE ---------- **Severe Effect**
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- Minor Effect
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- **Severe Effect**

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Methyl Chloroformate

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Methyl Cyanide

Material Compatibility

MATERIAL	EFFECT
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
KALREZ	No Effect

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Methyl Cyclopentane

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Methyl D-Bromide

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**

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Methyl Dichloride

Material Compatibility

MATERIAL	EFFECT
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Methyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Methyl Ethyl Ketone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	Moderate Effect

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NORYL ---------- **Severe Effect**
NYLON (Polyamide) ---------- No Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- Minor Effect
POLYCARBONATE (LEXAN) ---------- **Severe Effect**
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Moderate Effect
SILICON ---------- Moderate Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- **Severe Effect**

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Methyl Ethyl Ketone Peroxide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Methyl Formate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Hexane

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Methyl Iodide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Methyl Isobutyl Ketone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	Minor Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**

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PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- **Severe Effect**

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Methyl Isopropyl Ketone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
EPOXY	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
SILICON	Minor Effect

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SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
VITON ---------- **Severe Effect**

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Methyl Methacrylate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Oleate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Methyl Propyl Ketone

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Methyl Salicylate

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Methylacrylic Acid

Material Compatibility

MATERIAL	EFFECT
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Methylamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	Minor Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Methylene Bromide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Methylene Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**

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POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- Minor Effect

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Methylene Dichloride

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
FLOURAZ	**Severe Effect**
NEOPRENE	**Severe Effect**
VITON	No Effect

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Milk

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect

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POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
SILICON	Minor Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Mine Water

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Mineral Oils

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect
POLYACETAL	No Effect

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POLYCARBONATE (LEXAN) ---------- Minor Effect
POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- Minor Effect

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Mixed Acids

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	Moderate Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	**Severe Effect**

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Mixed Acids Sulfuricnitric

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect

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MLO-7277 Hydr.

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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MLO-7557

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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MLO-8200 Hydr.

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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MLO-8515

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Molasses

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect

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PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Molybdic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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MONEL

Chemical Compatibility

CHEMICAL	EFFECT
Acetate Solvents	Minor Effect
Acetic Acid	Minor Effect
Acetic Acid, 95%	Minor Effect
Acetone	No Effect
Alcohol	No Effect
Alum	Minor Effect
Aluminum Chloride	Moderate Effect
Ammonia, Anhydrous, Liquid	**Severe Effect**
Ammonia, Aqueous 30%	No Effect
Ammonium Chloride	Minor Effect
Ammonium Dihydrogen Phosphate	No Effect
Ammonium Hydroxide	**Severe Effect**
Ammonium Sulfate	Minor Effect
Barium Chloride	Minor Effect
Barium Nitrate	**Severe Effect**
Barium Sulfate	Minor Effect
Benzoic Acid	Moderate Effect
Boric Acid	**Severe Effect**
Calcium Bisulfite	**Severe Effect**
Calcium Bisulfite	No Effect
Calcium Hydroxide, 30% Boiling	Minor Effect
Carbon Disulfide	Moderate Effect
Carbon Tetrachloride	No Effect
Caustic Liquid	No Effect
Chlorinated Water, Saturate	**Severe Effect**
Chlorine	Minor Effect
Chloroacetic Acid	Minor Effect
Chromic Acid	**Severe Effect**
Chromic Acid, 10%	**Severe Effect**
Citric Acid	Minor Effect
Citric Acid, Hot Conc.	Moderate Effect
Copper Sulfate	**Severe Effect**

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Ethyl Acetate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Chloride ---------- Minor Effect
Ethylene Glycol ---------- Minor Effect
Ferric Chloride ---------- **Severe Effect**
Ferric Sulfate ---------- Moderate Effect
Ferrous Chloride ---------- **Severe Effect**
Ferrous Sulfate ---------- Moderate Effect
Fluorine ---------- No Effect
Formaldehyde ---------- Minor Effect
Formaldehyde, 40% ---------- Moderate Effect
Freon ---------- Minor Effect
Fruit Juices ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydrocarbons, Pure ---------- No Effect
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid ---------- Moderate Effect
Hydrofluosilicic Acid ---------- No Effect
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Peroxide, 50% ---------- **Severe Effect**
Hydrogen Sulfide ---------- **Severe Effect**
Iodine ---------- No Effect
Isopar G ---------- No Effect
Isopropyl Alcohol ---------- Moderate Effect
Lacquer Solvents ---------- No Effect
Lime, 30% ---------- Moderate Effect
Lubricating Oils ---------- No Effect
Magnesium Chloride ---------- Moderate Effect
Magnesium Hydorxide ---------- Moderate Effect
Manganese Chloride ---------- Moderate Effect
Methyl Chloride ---------- Minor Effect
Methyl Ethyl Ketone ---------- No Effect
Mineral Oils ---------- No Effect

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Mustard ---------- Moderate Effect
Nickel Chloride ---------- Moderate Effect
Nickel Sulfate ---------- Moderate Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Oxide ---------- **Severe Effect**
Phosphoric Acid ---------- Minor Effect
Phosphoric Acid, 10% ---------- **Severe Effect**
Photographic Developers ---------- No Effect
Photographic Fixer ---------- Minor Effect
Potassium Bicarbonate ---------- Moderate Effect
Potassium Carbonate ---------- Moderate Effect
Potassium Chlorate ---------- **Severe Effect**
Potassium Chloride ---------- No Effect
Potassium Dichromate 40% ---------- Moderate Effect
Potassium Hydroxide ---------- Moderate Effect
Potassium Nitrate ---------- Moderate Effect
Potassium Sulfate ---------- No Effect
Propylene Glycol ---------- Moderate Effect
Saline Solution - All Conc. ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- Moderate Effect
Sodium Cyanide ---------- **Severe Effect**
Sodium Hydroxide ---------- Minor Effect
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Nitrate ---------- Moderate Effect
Sodium Peroxide ---------- Moderate Effect
Sodium Phosphate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- Moderate Effect
Sodium Sulfite ---------- Moderate Effect
Sodium Thiosulfate ---------- Moderate Effect
Soft Drink Syrups ---------- **Severe Effect**
Solvent - Toner Kerosene Base ---------- No Effect

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Soybean Oil	Minor Effect
Stannic Chloride	Moderate Effect
Stannous Chloride	Moderate Effect
Sulfur Chloride	**Severe Effect**
Sulfur Dioxide	Minor Effect
Sulfur Dioxide	No Effect
Sulfur Trioxide	Moderate Effect
Sulfuric Acid	**Severe Effect**
Sulfurous Acid	**Severe Effect**
Toluene	No Effect
Trichloroethane	No Effect
Turpentine	Minor Effect
Vegetable Oils	Moderate Effect
Vinegar	Moderate Effect
Water, Fresh	No Effect
Zinc Chloride	No Effect
Zinc Sulfate	Moderate Effect

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Monobromobenzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Monochloracetic Acid

Material Compatibility

MATERIAL	EFFECT
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
TEFLON	No Effect

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Monochlorobenzene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Monochlorodifluoro Methane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Monoethanolamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Monomethyl Hydrazine

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect

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Monomethylaniline

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Monomethylether

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect

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Mononitrotoluene & Dinitrotoluene (40/60 Mix)

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Monovinyl Acetylene

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
VITON	No Effect

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Muriatic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**

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Mustard

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
MONEL	Moderate Effect
NEOPRENE	Moderate Effect
NORYL	Minor Effect
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect

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PVC ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
VITON ---------- **Severe Effect**

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N,N-Dimethyl Formamide

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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N,N-Dimethylaniline

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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n-Amyl Amine

Material Compatibility

MATERIAL	EFFECT
BUNA	Moderate Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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n-Butyl Acetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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N-Butyl Benzoate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
VITON	No Effect

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N-Butyl Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	**Severe Effect**

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N-Hexaldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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n-Hexane

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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n-Hexane 1

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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N-Hexene-1

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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N-Methyl Aniline

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
TEFLON	No Effect
VITON	Moderate Effect

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n-Octane

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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N-Pentane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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n-Propyl Acetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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N-Propyl Acetone

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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n-Propyl Nitrate

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
TEFLON	No Effect
VITON	Moderate Effect

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Napalm

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Naphtha Coal Tar (Benzol)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Naphtha, Petroleum

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	Minor Effect
RYTON	No Effect
SILICONE	Moderate Effect
TEFLON	No Effect
VITON	No Effect
VITON	No Effect

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Naphthalene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYSULFONE	**Severe Effect**
RYTON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
VITON	No Effect
VITON	No Effect

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Naphthoic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Naptha

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect

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POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VITON ---------- No Effect

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Naptha-Coal Tar (Benzol)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Napthalene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Minor Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect

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TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- Moderate Effect

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Napthenic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Natural Gas

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Neatsfoot Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Neohexane

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect
VITON	No Effect

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Neon

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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NEOPRENE (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	**Severe Effect**
1-Chlorol 1 Nitro Ethane	**Severe Effect**
1-Chloronaphthalene	**Severe Effect**
1-Nitropropane	Moderate Effect
Acetaldehyde	**Severe Effect**
Acetamide	Minor Effect
Acetate Solvents	**Severe Effect**
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	Minor Effect
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 20%	Minor Effect
Acetic Acid, 30%	Minor Effect
Acetic Acid, 5%	Moderate Effect
Acetic Acid, 50%	Moderate Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	Minor Effect
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	**Severe Effect**
Acetone Cyanohydrin	Minor Effect
Acetonitrile (Methyl Cyanide)	**Severe Effect**
Acetophenone	**Severe Effect**
Acetyl Acetone	**Severe Effect**
Acetyl Chloride	**Severe Effect**
Acetyl Salicylic Acid	**Severe Effect**
Acetylene (Ethyne)	Moderate Effect
Acetylene Tetrabromide	**Severe Effect**
Acrylonitrile	**Severe Effect**
Adipic Acid	**Severe Effect**

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Aero Lubriplate ---------- No Effect
Aerosafe 2300 ---------- **Severe Effect**
Aerosafe 2300W ---------- **Severe Effect**
Aeroshell 17 Grease ---------- Minor Effect
Aeroshell 1AC ---------- Minor Effect
Aeroshell 750 ---------- **Severe Effect**
Aeroshell 7A Grease ---------- Minor Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- Minor Effect
Alcohol, Benzyl ---------- Minor Effect
Alcohol, Butyl ---------- No Effect
Alcohol, Diacetone ---------- **Severe Effect**
Alcohol, Ethyl ---------- No Effect
Alcohol, Hexyl ---------- Minor Effect
Alcohol, Isobutyl ---------- No Effect
Alcohol, Isopropyl ---------- Minor Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- Minor Effect
Alcohol, Propyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Alkazene ---------- **Severe Effect**
Allyl Alcohol ---------- No Effect
Allyl Bromide ---------- **Severe Effect**
Allyl Chloride ---------- **Severe Effect**
Almond Oil ---------- **Severe Effect**
Alum ---------- No Effect
Aluminum Acetate ---------- Moderate Effect
Aluminum Ammonium Sulfate ---------- Minor Effect
Aluminum Bromide ---------- No Effect
Aluminum Chloride ---------- No Effect
Aluminum Chloride, 20% ---------- No Effect
Aluminum Fluoride ---------- No Effect
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitrate ---------- No Effect

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Aluminum Nitride ---------- No Effect
Aluminum Phosphate ---------- No Effect
Aluminum Potassium Sulfate ---------- No Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ No Effect
Aluminum Potassium Sulfate, Saturated Boiling **Severe Effect**
Aluminum Salts ---------- No Effect
Aluminum Sodium Sulfate ---------- No Effect
Aluminum Sulfate ---------- No Effect
AMERSEP MP-7 ---------- No Effect
Amines ---------- Minor Effect
Ammonia Gas, Cold ---------- No Effect
Ammonia Gas, Hot ---------- Minor Effect
Ammonia Liquors ---------- No Effect
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- Minor Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- **Severe Effect**
Ammonium Acetate ---------- No Effect
Ammonium Acetate ---------- No Effect
Ammonium Bicarbonate ---------- No Effect
Ammonium Bifluoride, 10% ---------- **Severe Effect**
Ammonium Carbonate ---------- Minor Effect
Ammonium Casenite ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Chloride, 1% ---------- Minor Effect
Ammonium Dichromate ---------- No Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Hydroxide, 3 Molar ---------- No Effect
Ammonium Hydroxide, Concentrated ---------- No Effect
Ammonium Metaphosphate ---------- No Effect
Ammonium Nitrate ---------- Minor Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Persulfate ---------- No Effect

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Ammonium Persulfate, 10% ---------- No Effect
Ammonium Persulfate, 5% ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Salts ---------- No Effect
Ammonium Sulfamate ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Thiocyanate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- Minor Effect
Amyl Borate ---------- Minor Effect
Amyl Chloride ---------- **Severe Effect**
Amyl Chloronaphthalene ---------- **Severe Effect**
Amyl Naphthalene ---------- **Severe Effect**
AN-O-3 Grade M ---------- Minor Effect
AN-O-366 ---------- Minor Effect
AN-O-6 ---------- Minor Effect
AN-VV-O-366b Hydr. Fluid ---------- No Effect
Anderol, L-774 (Di-Ester) ---------- **Severe Effect**
Anderol, L-826 (Di-Ester) ---------- **Severe Effect**
Anderol, L-829 (Di-Ester) ---------- **Severe Effect**
ANG-25 (Di-Ester Base) (TG749) ---------- **Severe Effect**
ANG-25 (Glyceral Ester) ---------- Minor Effect
Anhydrous Ammonia ---------- No Effect
Anhydrous Hydrazine ---------- Minor Effect
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- Moderate Effect
Aniline Hydrochloride ---------- **Severe Effect**
Aniline Oil ---------- **Severe Effect**
Animal Fats & Oils ---------- Moderate Effect

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Animal Gelatin ---------- No Effect
Anise Oil ---------- **Severe Effect**
Anisole ---------- **Severe Effect**
Ansul Ether ---------- **Severe Effect**
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- Minor Effect
Antimony Trichloride ---------- Moderate Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- **Severe Effect**
Aristo Wax ---------- No Effect
Arochlor 1248 ---------- **Severe Effect**
Arochlor 1254 ---------- **Severe Effect**
Arochlor 1260 ---------- No Effect
Aroclor ---------- **Severe Effect**
Aromatic Fuel 50% ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- **Severe Effect**
Aromatic Solvents ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- No Effect
Askarel ---------- **Severe Effect**
Asphalt ---------- Moderate Effect
Asphalt Topping ---------- No Effect
ASTM, Red Motor Fuel A ---------- Minor Effect
ASTM, Red Motor Fuel B ---------- **Severe Effect**
ASTM, Red Motor Fuel C ---------- **Severe Effect**
ASTM, Ref #1 Oil ---------- Minor Effect
ASTM, Ref #2 Oil ---------- Minor Effect
ASTM, Ref #3 Oil ---------- Moderate Effect
ASTM, Ref #4 Oil ---------- **Severe Effect**
ATL-857 ---------- **Severe Effect**
Atlantic Dominion F ---------- Minor Effect
Aurex 903R (Mobil) ---------- Minor Effect
Automatic Brake Fluid ---------- Minor Effect
Automatic Transmission Fluid ---------- Minor Effect
Automotive Gasoline (Standard) ---------- **Severe Effect**
Aviation Gasoline ---------- Moderate Effect

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Barbeque Sauce ---------- No Effect
Bardol B ---------- **Severe Effect**
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride Dihydrate ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- No Effect
Barium Hydrate ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Salts ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- **Severe Effect**
Bayol 35 ---------- Minor Effect
Bayol D ---------- Minor Effect
Beef Extract ---------- No Effect
Beer ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- **Severe Effect**
Benzene Sulfonic Acid ---------- No Effect
Benzine (Gasoline) ---------- Minor Effect
Benzochloride ---------- **Severe Effect**
Benzoic Acid ---------- Minor Effect
Benzol ---------- **Severe Effect**
Benzoyl Chloride ---------- **Severe Effect**
Benzyl Alcohol ---------- Moderate Effect
Benzyl Benzoate ---------- **Severe Effect**
Benzyl Chloride ---------- **Severe Effect**
Biphenyl ---------- **Severe Effect**
Bismuth Subcarbonate ---------- No Effect
Black Sulfate Liquor ---------- No Effect

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Blast Furnace Gas ---------- **Severe Effect**
Bleach Liquor ---------- Minor Effect
Bleach Solutions ---------- **Severe Effect**
Bleach, 12.5% Active Chlorine ---------- **Severe Effect**
Bone Oil ---------- **Severe Effect**
Borax ---------- **Severe Effect**
Bordeaux Mixture ---------- Minor Effect
Boric Acid ---------- No Effect
Boron Fuels (HEF) ---------- **Severe Effect**
Brake Fluid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- Minor Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Bray GG - 130 ---------- **Severe Effect**
Brayco 719-R (VV-H-910) ---------- Minor Effect
Brayco 885 (Mil-L-6085A) ---------- **Severe Effect**
Brayco 910 ---------- Minor Effect
Bret 710 ---------- Minor Effect
Brewery Shop ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- Minor Effect
Brom-113 ---------- **Severe Effect**
Brom-114 ---------- Minor Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Pentafluoride ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- Minor Effect
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bromochloromethane ---------- **Severe Effect**
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - Minor Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect

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Bronzing Liquid ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- **Severe Effect**
Butadiene ---------- Moderate Effect
Butane ---------- Minor Effect
Butane, 2,2-Dimethyl ---------- Minor Effect
Butane, 2,3-Dimethyl ---------- Minor Effect
Butanol ---------- No Effect
Butter ---------- Moderate Effect
Butter - Animal Fat ---------- Minor Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acetyl Ricinoleate ---------- **Severe Effect**
Butyl Acrylate ---------- **Severe Effect**
Butyl Alcohol ---------- **Severe Effect**
Butyl Amine ---------- **Severe Effect**
Butyl Benzoate ---------- **Severe Effect**
Butyl Butyrate ---------- **Severe Effect**
Butyl Carbitol ---------- **Severe Effect**
Butyl Cellosolve ---------- **Severe Effect**
Butyl Cellosolve Adipate ---------- **Severe Effect**
Butyl Ether ---------- Minor Effect
Butyl Oleate ---------- **Severe Effect**
Butyl Stearate ---------- **Severe Effect**
Butylamine FC75 (Fluorocarbon) ---------- No Effect
Butylene ---------- **Severe Effect**
Butyraldehyde ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Butyronitrile ---------- **Severe Effect**
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- Moderate Effect
Cadmium Sulfate (25% Concentration) ---------- No Effect
Calcium Acetate ---------- Minor Effect
Calcium Acetate Hydrate ---------- Moderate Effect
Calcium Acid Sulphate ---------- No Effect
Calcium Bisulfate ---------- Moderate Effect

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Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- **Severe Effect**
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Nitrate ---------- No Effect
Calcium Oxide ---------- No Effect
Calcium Phosphate ---------- Minor Effect
Calcium Salts ---------- No Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfide ---------- Minor Effect
Calcium Sulfite ---------- No Effect
Calcium Thiosulfate ---------- No Effect
Calgon ---------- No Effect
Caliche Liquors ---------- No Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Capryl Alcohol ---------- Minor Effect
Carbamate ---------- Moderate Effect
Carbitol ---------- Moderate Effect
Carbolic Acid ---------- Moderate Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Dioxide ---------- No Effect
Carbon Dioxide, Dry ---------- Minor Effect
Carbon Dioxide, Wet ---------- Minor Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Carbonate of Soda ---------- Minor Effect
Carbonated Beverages ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- **Severe Effect**

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Casein ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- Moderate Effect
Cellosolve ---------- **Severe Effect**
Cellosolve Acetate ---------- **Severe Effect**
Cellosolve Butyl ---------- **Severe Effect**
Celluguard ---------- No Effect
Cellulose Acetate ---------- Minor Effect
Cellulube Hydraulic Fluids ---------- **Severe Effect**
Cellulube Hydraulic Fluids (Phosphate Esters) **Severe Effect**
Cellutherm 2505A ---------- **Severe Effect**
Cetane (Hexadecane) ---------- Minor Effect
China Wood Oil (Tung Oil) ---------- Minor Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorextol ---------- No Effect
Chloric Acid ---------- **Severe Effect**
Chlorinated Glue ---------- **Severe Effect**
Chlorinated Glue ---------- **Severe Effect**
Chlorinated Lime ---------- **Severe Effect**
Chlorinated Lime, 35% (Bleach) ---------- **Severe Effect**
Chlorinated Salt Brine ---------- **Severe Effect**
Chlorinated Solvents, Dry ---------- **Severe Effect**
Chlorinated Solvents, Wet ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine Water ---------- Moderate Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- Moderate Effect
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- Moderate Effect
Chloroacetone ---------- Moderate Effect
Chlorobenzene ---------- **Severe Effect**
Chlorobromomethane ---------- **Severe Effect**
Chlorobutadiene ---------- **Severe Effect**
Chlorododecane ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**

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Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorothene ---------- **Severe Effect**
Chlorotoluene ---------- **Severe Effect**
Chlorox ---------- Minor Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chrome Plating Solutions ---------- **Severe Effect**
Chromic Acid, 10% ---------- **Severe Effect**
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromium Plating, Barrel Chrome Bath 95 F ---- **Severe Effect**
Chromium Plating, Black Chrome Bath 115 F ---- **Severe Effect**
Chromium Plating, Chromic-Sulfuric Bath 130 F **Severe Effect**
Chromium Plating, Fluoride Bath 130 F -------- **Severe Effect**
Chromium Plating, Fluosilicate Bath 95 F ----- **Severe Effect**
Chromium Sulfate (Basic) ---------- No Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, 15% Solution ---------- No Effect
Citric Acid, 15% Solution (Boiling) ---------- No Effect
Citric Acid, Concentrated (Boiling) ---------- No Effect
Citric Oils ---------- **Severe Effect**
Citrus Pectin Liquor ---------- No Effect
Clove Oil ---------- Moderate Effect
Coal Gas ---------- No Effect
Coal Tars ---------- **Severe Effect**
Cobalt Chloride ---------- No Effect
Coconut Oil ---------- **Severe Effect**
Cod Liver Oil ---------- Minor Effect
Coffee ---------- No Effect

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Coke Oven Gas ---------- **Severe Effect**
Coliche Liquors ---------- No Effect
Convelex 10 ---------- **Severe Effect**
Coolanol (Monsanto) ---------- Minor Effect
Copper (Misc),Copper (Electroless) 140 F ----- **Severe Effect**
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Acetate ---------- Moderate Effect
Copper Acetate, Saturated Solution ---------- Minor Effect
Copper Chloride ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- No Effect
Copper Fluoborate ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Nitrate Hexahydrate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- Moderate Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),
Copper Strike Bath 120 F ---------- No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - Minor Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- Minor Effect
Copper Salts ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Corn Oil ---------- **Severe Effect**
Cottonseed Oil ---------- **Severe Effect**
Cream ---------- Moderate Effect
Creosols ---------- **Severe Effect**

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Creosote, Coal-Tar ---------- Moderate Effect
Creosote, Wood-Tar ---------- Minor Effect
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Crotonaldehyde ---------- No Effect
Crude Oil ---------- **Severe Effect**
Cumeme ---------- **Severe Effect**
Cutting Oil (Sulfur Base) ---------- Moderate Effect
Cutting Oil (Water Base) ---------- **Severe Effect**
Cyanic Acid ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Cyclohexanol ---------- No Effect
Cyclohexanone ---------- **Severe Effect**
Cyclopentane ---------- No Effect
Cycolic Acid ---------- No Effect
Cymene ---------- **Severe Effect**
Decahydronaphthalene ---------- **Severe Effect**
Decalin ---------- **Severe Effect**
Decane ---------- **Severe Effect**
Decyl Alcohol ---------- **Severe Effect**
Denatured Alcohol ---------- Minor Effect
Detergent Solutions ---------- Minor Effect
Developing Fluids & Solutions ---------- No Effect
Dextron ---------- Minor Effect
Dextrose ---------- Minor Effect
Di-Ester Lubricant Mil-L-7808 ---------- **Severe Effect**
Di-Ester Synthetic Lubricants ---------- **Severe Effect**
Diacetone ---------- **Severe Effect**
Diacetone Alcohol ---------- **Severe Effect**
Diamylamine ---------- No Effect
Diazinon ---------- **Severe Effect**
Dibenzyl Ether ---------- **Severe Effect**
Dibenzyl Sebecate ---------- **Severe Effect**
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Ether ---------- **Severe Effect**
Dibutyl Mercaptan ---------- **Severe Effect**

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Dibutyl Phthalate ---------- **Severe Effect**
Dibutyl Sebecate ---------- **Severe Effect**
Dichlorethane ---------- **Severe Effect**
Dichloro Isopropyl Ether ---------- **Severe Effect**
Dichloro-Butane ---------- **Severe Effect**
Dichloroacetic Acid ---------- **Severe Effect**
Dicyclohexylamine ---------- **Severe Effect**
Diemethyl Formamide ---------- **Severe Effect**
Diesel Fuel ---------- **Severe Effect**
Diesel Fuel Oil (2D,3D,4D,5D) ---------- **Severe Effect**
Diesel Oil (Fuel ASTM #2) ---------- **Severe Effect**
Diester Synthetic Oils ---------- **Severe Effect**
Diethanol Amine ---------- **Severe Effect**
Diethyl Amine ---------- Moderate Effect
Diethyl Benzene ---------- **Severe Effect**
Diethyl Carbonate ---------- **Severe Effect**
Diethyl Ether ---------- Moderate Effect
Diethyl Sebacate ---------- **Severe Effect**
Diethylamine ---------- Minor Effect
Diethylene Ether (Dioxane) ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Difluorodibromomethane ---------- **Severe Effect**
Diisobutyl Ketone ---------- **Severe Effect**
Diisobutylene ---------- **Severe Effect**
Diisodecyl Phthalate ---------- **Severe Effect**
Diisooctyl Sebecate ---------- **Severe Effect**
Diisopropyl Benzene ---------- **Severe Effect**
Diisopropyl Ketone ---------- **Severe Effect**
Dimethyl Aniline ---------- **Severe Effect**
Dimethyl Ether ---------- Minor Effect
Dimethyl Phthalate ---------- **Severe Effect**
Dinitrotoluene ---------- **Severe Effect**
Dioctyl Phthalate ---------- **Severe Effect**
Dioctyl Sebecate ---------- **Severe Effect**
Dioctylphthalate ---------- **Severe Effect**
Dioxalanes ---------- **Severe Effect**

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Dioxane ---------- **Severe Effect**
Dioxolane (Dioxalans) ---------- **Severe Effect**
Dipentene ---------- **Severe Effect**
Diphenyl ---------- **Severe Effect**
Diphenyl Oxide ---------- **Severe Effect**
Dipsersing Oil #10 ---------- **Severe Effect**
Dow Corning (Silicones) ---------- No Effect
Dowtherm (Biphenyl & Phenyl Ether) ---------- **Severe Effect**
Dowtherm A ---------- **Severe Effect**
Dowtherm E ---------- **Severe Effect**
Drinking Water ---------- Minor Effect
Drycleaning Fluids ---------- **Severe Effect**
DTE Light Oil ---------- Minor Effect
Dyes ---------- Moderate Effect
Elco 28-EP Lubricant ---------- **Severe Effect**
Epichlorohydrin ---------- **Severe Effect**
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Esam-6 Fluid ---------- Minor Effect
Esstic 42, 43 ---------- Minor Effect
Ethane ---------- Moderate Effect
Ethanol ---------- No Effect
Ethanolamine ---------- Moderate Effect
Ether (Ethyl, Methyl, Isor) ---------- **Severe Effect**
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acetoacetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Alcohol ---------- No Effect
Ethyl Amine ---------- **Severe Effect**
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzoate ---------- **Severe Effect**
Ethyl Bromide ---------- **Severe Effect**
Ethyl Butyrate ---------- **Severe Effect**
Ethyl Caprylate ---------- **Severe Effect**
Ethyl Cellose ---------- Minor Effect

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Ethyl Cellosolve ---------- **Severe Effect**
Ethyl Cellulose ---------- Minor Effect
Ethyl Chloride ---------- Moderate Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- Minor Effect
Ethyl Chlorocarbonate ---------- **Severe Effect**
Ethyl Chloroformate ---------- **Severe Effect**
Ethyl Cyanide ---------- Minor Effect
Ethyl Ether ---------- **Severe Effect**
Ethyl Formate ---------- Minor Effect
Ethyl Iodide ---------- **Severe Effect**
Ethyl Isobutyrate ---------- **Severe Effect**
Ethyl Oxalate ---------- **Severe Effect**
Ethyl Pentachlorobenzene ---------- **Severe Effect**
Ethyl Propionate ---------- **Severe Effect**
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- No Effect
Ethylacrylic Acid ---------- Minor Effect
Ethylcyclopentane ---------- **Severe Effect**
Ethylene ---------- No Effect
Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- Minor Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- **Severe Effect**
Ethylene Glycol Monobutyl ---------- **Severe Effect**
Ethylene Glycol Monoethyl ---------- **Severe Effect**
Ethylene Glycol Monomethyl ---------- Moderate Effect
Ethylene Glycol Monomethyl Ether ---------- **Severe Effect**
Ethylene Oxide ---------- **Severe Effect**
Ethylene Trichloride ---------- **Severe Effect**
Ethylidene Chloride ---------- **Severe Effect**
Ethylmorpholene Stannous Octoate (50/50 Mix) - **Severe Effect**
Fatty Acids ---------- Moderate Effect

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FC-43 Heptacosofluorotri-Butylamine FC75 ----- No Effect
Ferric Chloride ----- No Effect
Ferric Chloride, 1% ----- No Effect
Ferric Chloride, 10% Solution ----- Minor Effect
Ferric Chloride, 5% Agitated or Aerated ------ Minor Effect
Ferric Chloride, 5% Solution (Still) --------- Minor Effect
Ferric Hydroxide ----- **Severe Effect**
Ferric Nitrate ----- No Effect
Ferric Sulfate ----- No Effect
Ferric Sulphate 1% to 5% ----- No Effect
Ferrous Chloride ----- No Effect
Ferrous Sulfate ----- No Effect
Ferrous Sulfate (Saturated) ----- No Effect
Ferrous Sulfate, 10% Solution ----- No Effect
Fish Liver Oils ----- **Severe Effect**
Fluboric Acid ----- No Effect
Fluoboric Acid ----- Minor Effect
Fluorboric Acid ----- No Effect
Fluorine ----- **Severe Effect**
Fluorine (Liquid) ----- Moderate Effect
Fluorobenzene ----- **Severe Effect**
Fluorocarbon Oil ----- No Effect
Fluorolube ----- No Effect
Fluosilicic Acid ----- No Effect
Formaldehyde ----- Moderate Effect
Formaldehyde, 40% ----- No Effect
Formamide ----- No Effect
Formic Acid ----- Minor Effect
Formic Acid (Dilute Cold) ----- No Effect
Formic Acid (Dilute Hot) ----- No Effect
Freon 11 ----- **Severe Effect**
Freon 112 ----- Minor Effect
Freon 113 ----- No Effect
Freon 114 ----- No Effect
Freon 114B2 ----- No Effect
Freon 115 ----- No Effect

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Freon 12 ---------- Minor Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- **Severe Effect**
Freon 142b ---------- No Effect
Freon 152a ---------- No Effect
Freon 21 ---------- Minor Effect
Freon 218 ---------- No Effect
Freon 22 ---------- Minor Effect
Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon C316 ---------- No Effect
Freon T-P35 ---------- No Effect
Freon T-WD602 ---------- Minor Effect
Freon T.F. ---------- No Effect
Freon TA ---------- No Effect
Freon TC ---------- No Effect
Freon TMC ---------- Minor Effect
Freon, BF ---------- Minor Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- **Severe Effect**
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- Minor Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- **Severe Effect**
Fumaric Acid ---------- Minor Effect
Fuming Sulphuric Acid (20/25% Oleum) --------- **Severe Effect**
Furan ---------- **Severe Effect**
Furan Resin ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Furfuraldehyde ---------- **Severe Effect**
Furfuryl Alcohol ---------- **Severe Effect**
Furyl Carbinol ---------- **Severe Effect**

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Fusel Oil ---------- No Effect
Fyrquel 90,100,150m 220, 300,500 ---------- **Severe Effect**
Fyrquel A60 ---------- **Severe Effect**
Gallic Acid ---------- Moderate Effect
Gasoline (Aviation) ---------- **Severe Effect**
Gasoline (Meter) ---------- **Severe Effect**
Gasoline (Petrol) ---------- Moderate Effect
Gasoline (Sour) ---------- **Severe Effect**
Gasoline (Unleaded) ---------- **Severe Effect**
Gelatin ---------- No Effect
Ginger Oil ---------- No Effect
Glacial Acetic Acid ---------- **Severe Effect**
Glauber's Salt ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Glycols ---------- No Effect
Gold Monocyanide ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- **Severe Effect**
Grapefruit Oil ---------- **Severe Effect**
Grease ---------- **Severe Effect**
Grease (Petroleum Base) ---------- **Severe Effect**
Green Sulfate Liquor ---------- Minor Effect
Halothane ---------- **Severe Effect**
Halowax Oil ---------- **Severe Effect**
Hannifin Lube A ---------- No Effect
Heavy Water ---------- Minor Effect
HEF-2 (High Energy Fuel) ---------- **Severe Effect**
Helium ---------- No Effect
Heptane ---------- Moderate Effect
Hexalin ---------- No Effect
Hexanal ---------- No Effect

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Hexane ---------- Minor Effect
Hexyl Alcohol ---------- Minor Effect
Hexylene Glycol ---------- No Effect
High Viscosity Lubricant, H2 ---------- Minor Effect
High Viscosity Lubricant, U4 ---------- Minor Effect
Hilo MS #1 ---------- **Severe Effect**
Honey ---------- No Effect
Houghto-Safe 1010, Phosphate Ester ---------- **Severe Effect**
Houghto-Safe 1055, Phosphate Ester ---------- **Severe Effect**
Houghto-Safe 1120, Phosphate Ester ---------- **Severe Effect**
Houghto-Safe 271 (Water & Glycol Base) ------- Minor Effect
Houghto-Safe 5040 (Water/Oil Emulsion) ------- Minor Effect
Houghto-Safe 620Water/Glycol ---------- Minor Effect
Hydraulic Oil ---------- Minor Effect
Hydraulic Oils (Petroleum) ---------- Minor Effect
Hydrazine ---------- Moderate Effect
Hydrazine (Diamine) ---------- Minor Effect
Hydrobromic Acid ---------- Moderate Effect
Hydrobromic Acid 40% ---------- Minor Effect
Hydrobromic Acid, 20% ---------- Moderate Effect
Hydrocarbons (Saturated) ---------- Minor Effect
Hydrochloric Acid ---------- Minor Effect
Hydrochloric Acid (Conc.) ---------- Moderate Effect
Hydrochloric Acid (Dilute) ---------- Minor Effect
Hydrochloric Acid 20% ---------- Minor Effect
Hydrochloric Acid, 100% ---------- Moderate Effect
Hydrochloric Acid, 20% ---------- Moderate Effect
Hydrochloric Acid, 37% ---------- Moderate Effect
Hydrocloric Acid 3 Molar ---------- Minor Effect
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- Moderate Effect
Hydrocyanic Acid (Gas 10%) ---------- Moderate Effect
Hydrofluoric Acid 65% or less, Cold ---------- Minor Effect
Hydrofluoric Acid 65% or Less, Hot ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Cold ---------- **Severe Effect**
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**

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Hydrofluoric Acid, (Conc) ---------- Moderate Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- No Effect
Hydrofluosilicic Acid, 20% ---------- Minor Effect
Hydrogen ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- Moderate Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- Moderate Effect
Hydrogen Peroxide, 3% ---------- Minor Effect
Hydrogen Peroxide, 30% ---------- **Severe Effect**
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide Wet, Cold ---------- No Effect
Hydrogen Sulfide Wet, Hot ---------- Minor Effect
Hydrogen Sulfide, Aqueous ---------- Moderate Effect
Hydrolube-Water/Ethylene Glycol ---------- Minor Effect
Hydroquinone ---------- **Severe Effect**
Hydroxyacetic Acid, 10% ---------- **Severe Effect**
Hydroxyacetic Acid, 70% ---------- No Effect
Hydyne ---------- Minor Effect
Hypochlorous Acid ---------- **Severe Effect**
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- **Severe Effect**
Iodine Pentafluoride ---------- **Severe Effect**
Iron Plating, Ferrous Am. Sulfate Bath 150 F - Minor Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- **Severe Effect**
Iron Plating, Ferrous Sulfate Bath 150 F ----- Minor Effect
Iron Plating, Fluoborate Bath 145 F ---------- Moderate Effect

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Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- Moderate Effect
Iso Butane ---------- **Severe Effect**
Iso-Butyl N-Butyrate ---------- **Severe Effect**
Isoamyl Acetate ---------- **Severe Effect**
Isoamyl Alcohol ---------- No Effect
Isoamyl Chloride ---------- **Severe Effect**
Isobutyl Acetate ---------- **Severe Effect**
Isobutyl Alcohol ---------- Minor Effect
Isobutyric Acid ---------- Minor Effect
Isododecane ---------- Minor Effect
Isooctane ---------- Minor Effect
Isophorone ---------- **Severe Effect**
Isopropanol ---------- Minor Effect
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- Minor Effect
Isopropyl Chloride ---------- **Severe Effect**
Isopropyl Ether ---------- **Severe Effect**
Jet Fuel (JP3,JP4,JP5) ---------- **Severe Effect**
Jet Fuels (JP1 to JP6) ---------- Moderate Effect
JP-1 ---------- **Severe Effect**
JP-2 ---------- **Severe Effect**
JP-3 (Mil-J-5624) ---------- **Severe Effect**
JP-4 (Mil-J-5624) ---------- **Severe Effect**
JP-5 (Mil-J-5624) ---------- **Severe Effect**
JP-6 (Mil-J-25656) ---------- **Severe Effect**
JP-X (Mil-F-25604) ---------- Minor Effect

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NEOPRENE (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kerosene	Moderate Effect
Ketones	**Severe Effect**
Keystone #87HX-Grease	**Severe Effect**
Lacquer Solvents	**Severe Effect**
Lacquer Thinners	**Severe Effect**
Lacquers	**Severe Effect**
Lactam-Amino Acids	Minor Effect
Lactic Acid	Minor Effect
Lactic Acid 10% Solution (Boiling)	**Severe Effect**
Lactic Acid, 5% Solution	Minor Effect
Lactol	**Severe Effect**
Lard	Minor Effect
Lard Oil	Moderate Effect
Lard Oil (Cold)	Minor Effect
Lard Oil (Hot)	Minor Effect
Latex	Moderate Effect
Lead Acetate	**Severe Effect**
Lead Chloride	Minor Effect
Lead Fluoborate Plating	Moderate Effect
Lead Nitrate	No Effect
Lead Sulfamate	No Effect
Lead Sulphamate	No Effect
Lehigh X1169	Minor Effect
Lehigh X1170	Minor Effect
Light Grease	**Severe Effect**
Lignin Liquor	No Effect
Ligroin	Minor Effect
Lime	Minor Effect
Lime Bleach	Moderate Effect
Lime Slurries	No Effect
Lime Sulfur	No Effect
Lime, Soda	Minor Effect

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Limonene ---------- **Severe Effect**
Lindol ---------- Moderate Effect
Linoleic Acid ---------- **Severe Effect**
Linseed Oil ---------- **Severe Effect**
Liquid Oxygen ---------- **Severe Effect**
Liquid Petroleum Gas (LPG) ---------- Minor Effect
Liquimoly ---------- Minor Effect
Lithium Chloride ---------- No Effect
Lubricants ---------- **Severe Effect**
Lubricating Oil Di-Ester ---------- **Severe Effect**
Lubricating Oil Petroleum Base ---------- Minor Effect
Lubricating Oil SAE10,20,30,40,50 ---------- Minor Effect
Lubricating Oils ---------- Minor Effect
Lye ---------- Minor Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Salts ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfite ---------- No Effect
Maleic Acid ---------- **Severe Effect**
Maleic Anhydride ---------- **Severe Effect**
Malic Acid ---------- Moderate Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- No Effect
Maple Sugar Liquors ---------- No Effect
Mash ---------- No Effect
Mayonnaise ---------- **Severe Effect**
MCS 312 ---------- **Severe Effect**
MCS 352 ---------- **Severe Effect**
MCS 463 ---------- **Severe Effect**
Mercuric Chloride ---------- Minor Effect

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Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- Minor Effect
Mercurous Nitrate ---------- Minor Effect
Mercury ---------- No Effect
Mercury Vapors ---------- No Effect
Mesityl Oxide ---------- **Severe Effect**
Methane ---------- Minor Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- Moderate Effect
Methyl Acetoacetate ---------- **Severe Effect**
Methyl Acetone ---------- **Severe Effect**
Methyl Acrylate ---------- Moderate Effect
Methyl Acrylic Acid ---------- Moderate Effect
Methyl Alcohol ---------- No Effect
Methyl Amine ---------- No Effect
Methyl Amyl Acetate ---------- **Severe Effect**
Methyl Aniline ---------- No Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Butyrate ---------- **Severe Effect**
Methyl Carbonate ---------- **Severe Effect**
Methyl Cellosolve ---------- **Severe Effect**
Methyl Cellulose ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Chloroformate ---------- **Severe Effect**
Methyl Cyclopentane ---------- **Severe Effect**
Methyl D-Bromide ---------- **Severe Effect**
Methyl Dichloride ---------- **Severe Effect**
Methyl Ether ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Ethyl Ketone Peroxide ---------- **Severe Effect**
Methyl Formate ---------- Minor Effect
Methyl Hexane ---------- No Effect
Methyl Iodide ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**

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Methyl Methacrylate ---------- **Severe Effect**
Methyl Oleate ---------- **Severe Effect**
Methyl Propyl Ketone ---------- **Severe Effect**
Methyl Salicylate ---------- **Severe Effect**
Methylacrylic Acid ---------- Minor Effect
Methylamine ---------- No Effect
Methylene Bromide ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Methylene Dichloride ---------- **Severe Effect**
Milk ---------- No Effect
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- Minor Effect
Mixed Acids ---------- **Severe Effect**
MLO-7277 Hydr. ---------- **Severe Effect**
MLO-7557 ---------- **Severe Effect**
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- No Effect
Monobromobenzene ---------- **Severe Effect**
Monochlorobenzene ---------- **Severe Effect**
Monoethanolamine ---------- **Severe Effect**
Monomethyl Hydrazine ---------- Minor Effect
Monomethylaniline ---------- **Severe Effect**
Mononitrotoluene & Dinitrotoluene (40/60 Mix) **Severe Effect**
Monovinyl Acetylene ---------- Minor Effect
Mustard ---------- Moderate Effect
N,N-Dimethyl Formamide ---------- **Severe Effect**
N,N-Dimethylaniline ---------- **Severe Effect**
n-Amyl Amine ---------- **Severe Effect**
n-Butyl Acetate ---------- **Severe Effect**
N-Butyl Benzoate ---------- **Severe Effect**
N-Butyl Ether ---------- **Severe Effect**
n-Hexane ---------- Minor Effect
n-Hexane 1 ---------- Minor Effect
N-Hexene-1 ---------- Minor Effect
N-Methyl Aniline ---------- **Severe Effect**

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n-Octane ---------- **Severe Effect**
N-Pentane ---------- No Effect
n-Propyl Acetate ---------- **Severe Effect**
N-Propyl Acetone ---------- **Severe Effect**
Naphtha Coal Tar (Benzol) ---------- **Severe Effect**
Naphtha, Petroleum ---------- **Severe Effect**
Naphthalene ---------- **Severe Effect**
Naptha ---------- **Severe Effect**
Naptha-Coal Tar (Benzol) ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Napthenic Acid ---------- **Severe Effect**
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- **Severe Effect**
Neon ---------- No Effect
Neosol ---------- No Effect
Neville Acid ---------- **Severe Effect**
Nickel Acetate ---------- Minor Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Plating, Electroless 200 F ---------- **Severe Effect**
Nickel Plating, Fluoborate 100-170 F --------- Moderate Effect
Nickel Plating, High Chloride 130-160 F ------ Minor Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Salts ---------- Minor Effect
Nickel Sulfate ---------- No Effect
Niter Coke ---------- No Effect
Nitrana ---------- Minor Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**

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Nitric Acid, 25% ---------- Moderate Effect
Nitric Acid, 35% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 70% ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitroethane ---------- Moderate Effect
Nitrogen ---------- No Effect
Nitrogen Tetroxide ---------- **Severe Effect**
Nitromethane ---------- **Severe Effect**
Nitropropane ---------- **Severe Effect**
O-Chloronaphthalene ---------- **Severe Effect**
o-Chlorophenol ---------- **Severe Effect**
O-Chlorphenol ---------- **Severe Effect**
o-Dichlorobenzene ---------- **Severe Effect**
o-Dichlorobenzene ---------- **Severe Effect**
Octachlorotoluene ---------- **Severe Effect**
Octadecane ---------- Minor Effect
Octyl Alcohol ---------- Minor Effect
Oils (Animal) ---------- Minor Effect
Oils, Crude ---------- **Severe Effect**
Oleic Acid ---------- **Severe Effect**
Olein ---------- **Severe Effect**
Oleum ---------- **Severe Effect**
Oleum (Fuming Sulfuric Acid) ---------- **Severe Effect**
Oleum Spirits ---------- **Severe Effect**
Oleum, 25% ---------- **Severe Effect**
Olive Oil ---------- **Severe Effect**
Orange Oil ---------- **Severe Effect**
Oronite 8200 ---------- No Effect
Oronite 8515 ---------- No Effect
Ortho-Dichlorobenzene ---------- **Severe Effect**
Orthochloro Ethyl Benzene ---------- **Severe Effect**
OS 45 Type III (OS45) ---------- No Effect
OS 45 Type IV (OS45-1) ---------- No Effect

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OS 70 ---------- No Effect
Oxalic Acid ---------- Minor Effect
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 10% Solution (Boiling) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, 200-400 degrees F ---------- **Severe Effect**
Oxygen, Cold ---------- No Effect
Ozone ---------- Minor Effect
P-Cymene ---------- **Severe Effect**
P-Dichlorobenzene ---------- **Severe Effect**
P-Tertiary Butyl Catechol ---------- Minor Effect
Paint Thinner, DUCO ---------- Moderate Effect
Paints & Solvents ---------- **Severe Effect**
Palm Oil ---------- **Severe Effect**
Palmitic Acid ---------- Moderate Effect
Para-Dichlorobenzene ---------- **Severe Effect**
Paraffins (Paraffin Oil) ---------- **Severe Effect**
Paraformaldehyde ---------- Minor Effect
Paraldehyde ---------- Minor Effect
Paralketone ---------- **Severe Effect**
Peanut Oil ---------- **Severe Effect**
Pentachloroethane ---------- **Severe Effect**
Pentachlorophenol ---------- **Severe Effect**
Pentane, 2 Methyl ---------- Minor Effect
Pentane, 2-4, Dimethyl ---------- Minor Effect
Pentane, 3-Methyl ---------- Minor Effect
Pentanedione-2,4 ---------- No Effect
Penthane ---------- Minor Effect
Peppermint Oil ---------- **Severe Effect**
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- Minor Effect
Petroleum Oil, Above 250 degrees F ---------- **Severe Effect**
Petroleum Oil, Below 250 degrees F ---------- Minor Effect
Petroleum Oil, Crude ---------- Minor Effect
Petroleum Oils (Sour) ---------- Moderate Effect

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Phenethyl Alcohol ---------- **Severe Effect**
Phenol ---------- Moderate Effect
Phenol (Carbolic Acid) ---------- **Severe Effect**
Phenol, 10% ---------- Moderate Effect
Phenol, 70%/30% H2O ---------- **Severe Effect**
Phenol, 85%/15% H2O ---------- **Severe Effect**
Phenyl Acetate ---------- **Severe Effect**
Phenyl Ethyl Ether ---------- **Severe Effect**
Phenyl Hydrazine ---------- **Severe Effect**
Phenylbenzene ---------- **Severe Effect**
Phorone ---------- **Severe Effect**
Phosphoric Acid ---------- Minor Effect
Phosphoric Acid (Conc) ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid, 1% Solution ---------- Minor Effect
Phosphoric Acid, 10% ---------- Minor Effect
Phosphoric Acid, 10% Solution (Hot) ---------- Minor Effect
Phosphoric Acid, 20% ---------- Minor Effect
Phosphoric Acid, 3 Molar ---------- **Severe Effect**
Phosphoric Acid, 5% Solution ---------- Minor Effect
Phosphoric Acid, 50% ---------- Minor Effect
Phosphoric Acid, 50% Solution (Hot) ---------- Minor Effect
Phosphoric Acid, 85% Solution ---------- Minor Effect
Phosphoric Acid, 85% Solution (Hot) ---------- Minor Effect
Phosphoric Anhydride (Dry or Moist) ---------- **Severe Effect**
Phosphoric Anhydride (Molten) ---------- **Severe Effect**
Phosphorus Oxychloride ---------- **Severe Effect**
Phosphorus Trichloride ---------- **Severe Effect**
Photographic Developers ---------- No Effect
Photographic Solutions ---------- No Effect
Phthalic Anhydride ---------- No Effect
Pickling Solution ---------- **Severe Effect**
Picric Acid ---------- Minor Effect
Picric Acid, H2O Solution ---------- No Effect
Picric Acid, Molten ---------- Minor Effect
Pine Oil ---------- **Severe Effect**

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Pinene ---------- **Severe Effect**
Piperidine ---------- **Severe Effect**
Pitch ---------- **Severe Effect**
Plating Solution, Cadmium ---------- Minor Effect
Plating Solution, Chrome ---------- **Severe Effect**
Plating Solution, Lead ---------- Minor Effect
Plating Solution, Others ---------- Moderate Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Pneumatic Service ---------- No Effect
Polyvinyl Acetate Emulsion ---------- Moderate Effect
Potash ---------- Minor Effect
Potassium Acetate ---------- Minor Effect
Potassium Alum ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bisulfate ---------- No Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cupro Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- No Effect
Potassium Permanganate ---------- Moderate Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- No Effect

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Potassium Salts ---------- No Effect
Potassium Silicate ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- No Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- **Severe Effect**
PRL-High Temp. Hydr. Oil ---------- Minor Effect
Producer Gas ---------- Minor Effect
Propane ---------- Minor Effect
Propane (Liquefied) ---------- Minor Effect
Propane Propionitrile ---------- Minor Effect
Propionic Acid ---------- **Severe Effect**
Propyl Acetate ---------- **Severe Effect**
Propyl Alcohol ---------- Minor Effect
Propyl Nitrate ---------- **Severe Effect**
Propylene ---------- **Severe Effect**
Propylene Dichloride ---------- **Severe Effect**
Propylene Glycol ---------- Moderate Effect
Propylene Oxide ---------- **Severe Effect**
Pydraul ---------- **Severe Effect**
Pydraul 10E, 29 ELT ---------- **Severe Effect**
Pydraul 115E ---------- **Severe Effect**
Pydraul 230E, 312C, 540C ---------- **Severe Effect**
Pydraul 30E, 50E, 65E, 90E ---------- **Severe Effect**
Pyranol ---------- **Severe Effect**
Pyranol, Transformer Oil ---------- Minor Effect
Pyridine ---------- **Severe Effect**
Pyridine Oil ---------- **Severe Effect**
Pyroligneous Acid ---------- **Severe Effect**
Pyrolube ---------- **Severe Effect**
Pyrrole ---------- **Severe Effect**
Quaternary Ammonium Salts ---------- No Effect
Quench Oil ---------- Minor Effect

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Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- **Severe Effect**
Rape-Seed Oil ---------- **Severe Effect**
Red Line 100 Oil ---------- Minor Effect
Red Oil (Mil-H-5606) ---------- Minor Effect
Resins and Rosins ---------- **Severe Effect**
Rhodium Plating 120 F ---------- Minor Effect
RJ-1 (Mil-F-25558) ---------- Minor Effect
Rose Oil ---------- **Severe Effect**
Rosin ---------- Moderate Effect
Rosin Oil ---------- No Effect
Rotenone ---------- No Effect
RP-1 (Mil-R-25576) ---------- Minor Effect
Rubber Solvents ---------- Moderate Effect
Rum ---------- No Effect
Rust Inhibitors ---------- **Severe Effect**
Sal Ammoniac ---------- No Effect
Sal Soda ---------- No Effect
Salicylic Acid ---------- Minor Effect
Salt Water ---------- Minor Effect
Santo Safe 300 ---------- **Severe Effect**
Sea Water ---------- Minor Effect
Sesame Seed Oil ---------- **Severe Effect**
Sewage ---------- Minor Effect
Shellac ---------- Minor Effect
Shellac (Bleached) ---------- Minor Effect
Shellac (Orange) ---------- Minor Effect
Silicate Esters ---------- No Effect
Silicone ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- Moderate Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect

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Skelly, Solvent B,C,E ---------- **Severe Effect**
Skydrol 500 ---------- **Severe Effect**
Skydrol 7000 ---------- **Severe Effect**
Skydrol Hydraulic Fluid ---------- **Severe Effect**
Soap Solutions ---------- Minor Effect
Soaps ---------- Minor Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- Moderate Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bichromate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Dichromate ---------- Minor Effect
Sodium Fluoride ---------- **Severe Effect**
Sodium Hexametaphosphate ---------- Minor Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% ---------- Minor Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) --------- No Effect
Sodium Hydroxide, 3 Molar ---------- Minor Effect
Sodium Hydroxide, 50% ---------- Moderate Effect

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Sodium Hydroxide, 50% Solution (Cold) -------- No Effect
Sodium Hydroxide, 70% (Cold) ----------------- No Effect
Sodium Hydroxide, 80% ----------------------- Moderate Effect
Sodium Hydroxide, 80% Solution (Hot) --------- No Effect
Sodium Hypochlorite ------------------------- Minor Effect
Sodium Hypochlorite ------------------------- No Effect
Sodium Hypochlorite (to 20%) ----------------- **Severe Effect**
Sodium Hypochlorite, 20% -------------------- Minor Effect
Sodium Hyposulfate -------------------------- **Severe Effect**
Sodium Metaphosphate ------------------------ Minor Effect
Sodium Metasilicate ------------------------- No Effect
Sodium Monophosphate ------------------------ No Effect
Sodium Nitrate ------------------------------ Minor Effect
Sodium Nitrate - Fused ---------------------- **Severe Effect**
Sodium Nitrite ------------------------------ **Severe Effect**
Sodium Orthosilicate ------------------------ **Severe Effect**
Sodium Perborate ---------------------------- Minor Effect
Sodium Peroxide ----------------------------- Minor Effect
Sodium Phosphate ---------------------------- Minor Effect
Sodium Phosphate (Dibasic) ------------------ Minor Effect
Sodium Phosphate (Mono) --------------------- No Effect
Sodium Phosphate (Tribasic) ----------------- Minor Effect
Sodium Polyphosphate ------------------------ **Severe Effect**
Sodium Resinate ----------------------------- No Effect
Sodium Salts -------------------------------- Minor Effect
Sodium Silicate ----------------------------- No Effect
Sodium Silicate (Hot) ----------------------- No Effect
Sodium Silicate (Water Glass) --------------- No Effect
Sodium Sulfate ------------------------------ Minor Effect
Sodium Sulfide ------------------------------ No Effect
Sodium Sulfide - Saturated ------------------ No Effect
Sodium Sulfite ------------------------------ No Effect
Sodium Sulfite, 10% Solution @ 150 F --------- No Effect
Sodium Sulfite, 5% Solution ----------------- No Effect
Sodium Sulphate ----------------------------- No Effect
Sodium Sulphide ----------------------------- No Effect

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Sodium Tetraphosphate ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Sodium Triphosphate ---------- **Severe Effect**
Sorghum ---------- No Effect
Sorgum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- **Severe Effect**
SP-90X ---------- No Effect
Sperm Oil (Whale Oil) ---------- **Severe Effect**
Spry ---------- Minor Effect
SR-10 Fuel ---------- **Severe Effect**
SR-6 Fuel ---------- **Severe Effect**
Stannic Chloride ---------- **Severe Effect**
Stannic Chloride, 50% ---------- **Severe Effect**
Stannic Fluoborate ---------- No Effect
Stannous Chloride ---------- **Severe Effect**
Stanous Chloride, 15% ---------- No Effect
Starch ---------- No Effect
Steam, Above 350 F ---------- **Severe Effect**
Steam, Below 350 F ---------- **Severe Effect**
Stearic Acid ---------- Minor Effect
Steric Acid ---------- Minor Effect
Stoddard Solvent ---------- **Severe Effect**
Styrene ---------- **Severe Effect**
Sucrose Solution ---------- Minor Effect
Sugar (Liquids) ---------- Minor Effect
Sulfamic Acid ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfate Liquors ---------- Moderate Effect
Sulfite Liquors ---------- Minor Effect
Sulfur ---------- Minor Effect
Sulfur (Molten) ---------- **Severe Effect**
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- Minor Effect
Sulfur Dioxide, Dry ---------- **Severe Effect**

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Sulfur Dioxide, Liquefied Under Pressure ----- **Severe Effect**
Sulfur Hexafluoride ------------------------- No Effect
Sulfur Trioxide ----------------------------- **Severe Effect**
Sulfur Trioxide (Dry) ----------------------- **Severe Effect**
Sulfuric Acid (Conc) ------------------------ **Severe Effect**
Sulfuric Acid (Fuming) ---------------------- **Severe Effect**
Sulfuric Acid, 10% -------------------------- **Severe Effect**
Sulfuric Acid, 25% -------------------------- Minor Effect
Sulfuric Acid, 3 Molar ---------------------- **Severe Effect**
Sulfuric Acid, 50% -------------------------- Minor Effect
Sulfuric Acid, 60% -------------------------- Moderate Effect
Sulfuric Acid, 75% -------------------------- **Severe Effect**
Sulfuric Acid, 85% -------------------------- **Severe Effect**
Sulfuric Acid, 95% -------------------------- **Severe Effect**
Sulfurous Acid ------------------------------ **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- **Severe Effect**
Sulphuric Acid,
Concentrated Solution (Boiling) ---- **Severe Effect**
Sulphuric Acid, Concentrated Solution @ 300% - **Severe Effect**
Sulphuric Acid, Fuming ---------------------- **Severe Effect**
Sulphurous Acid - Saturated ----------------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ----------- Minor Effect
Syrup --------------------------------------- Minor Effect
Talc Slurry --------------------------------- No Effect
Tall Oil (Liquid Rosin) --------------------- Minor Effect
Tannic Acid --------------------------------- Minor Effect
Tannin -------------------------------------- No Effect
Tanning Liquors ----------------------------- Minor Effect
Tanning Oil --------------------------------- **Severe Effect**
Tar and Tar Oil ----------------------------- Minor Effect
Tar, Bituminous ----------------------------- **Severe Effect**
Tarpenes ------------------------------------ **Severe Effect**
Tartaric Acid ------------------------------- No Effect

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Terpineol ---------- **Severe Effect**
Tertiary Butyl Alcohol ---------- No Effect
Tertiary Butyl Catechol ---------- Minor Effect
Tertiary Butyl Mercaptan ---------- **Severe Effect**
Tetra Bromomethane ---------- **Severe Effect**
Tetrabutyl Titanate ---------- No Effect
Tetrachlorodifluoroethane ---------- **Severe Effect**
Tetrachloroethane ---------- **Severe Effect**
Tetrachloroethylene ---------- **Severe Effect**
Tetraethyl Lead ---------- **Severe Effect**
Tetraethyl Lead "Blend" ---------- **Severe Effect**
Tetrahydrofuran ---------- **Severe Effect**
Tetrahydronaphthalene ---------- **Severe Effect**
Tetralin ---------- **Severe Effect**
Tetraphosphoglucosate ---------- No Effect
THIO-RED ---------- No Effect
Thiokol TP-90B ---------- Minor Effect
Thiokol TP-95 ---------- Minor Effect
Thionyl Chloride ---------- **Severe Effect**
Thiophene ---------- **Severe Effect**
Tin-Fluoborate Plating 100 F ---------- Moderate Effect
Tin-Lead Plating 100 F ---------- Moderate Effect
Titanium Tetrachloride ---------- **Severe Effect**
Toluene ---------- **Severe Effect**
Toluene Diisocyanate ---------- **Severe Effect**
Toluol ---------- **Severe Effect**
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- Moderate Effect
Transformer Oil ---------- Moderate Effect
Transmission Fluid ---------- Moderate Effect
Transmission Fluid, Type A ---------- No Effect
Triacetin ---------- Minor Effect
Triallyl Phosphate ---------- Moderate Effect
Triaryl Phosphate ---------- Moderate Effect
Tributoxyl Ethyl Phosphate ---------- **Severe Effect**
Tributyl Mercaptan ---------- **Severe Effect**

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Tributyl Phosphate ---------- **Severe Effect**
Trichloroacetic Acid ---------- **Severe Effect**
Trichlorobenzenes ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- **Severe Effect**
Triethanolamine ---------- Minor Effect
Triethyl Aluminum ---------- **Severe Effect**
Triethyl Amine ---------- Minor Effect
Triethyl Borane ---------- **Severe Effect**
Trifluoroethane ---------- **Severe Effect**
Trinitrotoluene ---------- Minor Effect
Trioctyl Phosphate ---------- **Severe Effect**
Tripoly Phosphate ---------- **Severe Effect**
Tung Oil ---------- Moderate Effect
Turbine Oil ---------- **Severe Effect**
Turbine Oil #15 (Mil-L-7808A) ---------- **Severe Effect**
Turbo Oil #35 ---------- **Severe Effect**
Turpentine ---------- **Severe Effect**
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- Minor Effect
Type 11 Fuel (Mil-S-3136) ---------- **Severe Effect**
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) **Severe Effect**
Univis 40 (Hydr. Fluid) ---------- Minor Effect
Univolt #35 (Mineral Oil) ---------- Minor Effect
Unsymmetrical Dimethyl Hydrazine ---------- Moderate Effect
Urea ---------- Minor Effect
Urine ---------- **Severe Effect**
Valeric Acid ---------- **Severe Effect**
Vanilla Extract ---------- **Severe Effect**
Varnish ---------- **Severe Effect**
Vegetable Juices ---------- **Severe Effect**
Vegetable Oils ---------- Moderate Effect
Versilube ---------- No Effect
Versilube F-50 ---------- Minor Effect
Vinegar ---------- Minor Effect

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Vinyl Acetate ---------- Minor Effect
Vinyl Chloride ---------- **Severe Effect**
VV-H-910 ---------- Minor Effect
Walnut Oil ---------- Minor Effect
Water ---------- No Effect
Water Acid, Mine ---------- Minor Effect
Water, Acid Mine ---------- Minor Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- Moderate Effect
Water, Fresh ---------- Minor Effect
Water, Salt ---------- Minor Effect
Waxes ---------- No Effect
Weed Killers ---------- Moderate Effect
Wemco C ---------- Minor Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Oil ---------- Moderate Effect
White Pine Oil ---------- **Severe Effect**
White Sulfate Liquor ---------- No Effect
White Water (Paper Mill) ---------- No Effect
Wines ---------- No Effect
Womar Salt ---------- Minor Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- Minor Effect
Wort, Distillery ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- **Severe Effect**
Xylidenes, Mixed, Aromatic ---------- **Severe Effect**
Xylidines ---------- **Severe Effect**
Zeolite ---------- Moderate Effect
Zinc Acetate ---------- Minor Effect
Zinc Ammonium Chloride ---------- No Effect
Zinc Chloride ---------- Minor Effect
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect

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Zinc Plating, Acid Fluoborate Bath R.T. ------ Moderate Effect
Zinc Plating, Acid Sulfate Bath 150 F -------- Minor Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Salts ---------- No Effect
Zinc Sulfate ---------- No Effect
Zinc Sulfate, 5% Solution ---------- No Effect
Zinc Sulfate, Saturated Solution ---------- No Effect

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Neosol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Neville Acid

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Nickel Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Nickel Ammonium Sulfate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Nickel Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	Moderate Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide) ---------- Minor Effect
PHENOLIC ---------- Minor Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Nickel Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
TEFLON	No Effect
VITON	No Effect

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Nickel Plating, Electroless 200 F

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
CERAMIC	No Effect
EPOXY	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Nickel Plating, Fluoborate 100-170 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	Minor Effect
CAST BRONZE	**Severe Effect**
CERAMIC	**Severe Effect**
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Nickel Plating, High Chloride 130-160 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Nickel Plating, Sulfamate 100-140 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Nickel Plating, Watts Type 115-160 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Nickel Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Nickel Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide) ---------- Minor Effect
PHENOLIC ---------- Moderate Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Nicotine

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
KALREZ	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect

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Nicotinic Acid

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	Minor Effect
BRASS	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Niter Coke

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Nitrana

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	Minor Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	Moderate Effect

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Nitric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC BARIUM FERRITE	No Effect
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	**Severe Effect**
HYPALON	**Severe Effect**
MONEL	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	Moderate Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Nitric Acid & Hydrochloric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Nitric Acid (Conc)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	Moderate Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**

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RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Moderate Effect
VITON	Minor Effect

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Nitric Acid (Red Fuming)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Nitric Acid 3 Molar

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Nitric Acid Concentrated Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Nitric Acid Inhibited Red Fuming (IRFNA)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Nitric Acid, 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	**Severe Effect**
CERAMIC	Minor Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	Moderate Effect

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POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- Minor Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- Moderate Effect
VITON ---------- No Effect

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Nitric Acid, 20%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	**Severe Effect**
CERAMIC	Moderate Effect
CERAMIC ALUMINA	Moderate Effect
CERAMIC BARIUM FERRITE	Minor Effect
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	No Effect
MONEL	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	Minor Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	**Severe Effect**

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POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	Minor Effect

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Nitric Acid, 25%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Nitric Acid, 35%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Nitric Acid, 50%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Nitric Acid, 50% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Nitric Acid, 65% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
VITON	**Severe Effect**

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Nitric Acid, 68%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
ACRYLIC	**Severe Effect**
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	**Severe Effect**
NORPRENE	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	**Severe Effect**
PVC	No Effect
RYTON	**Severe Effect**
SILICONE	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	Moderate Effect

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Nitric Acid, 70%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
HASTELLOY C	**Severe Effect**
NEOPRENE	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Nitric Acid, Anhydrous

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
ACRYLIC	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	**Severe Effect**
NORPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVC	**Severe Effect**
VINYL	**Severe Effect**
VITON	Moderate Effect

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Nitric Oxide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	Moderate Effect
HYPALON	**Severe Effect**
MONEL	**Severe Effect**
NORYL	Moderate Effect
PHENOLIC	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Nitriding Gases

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect

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Nitrobenzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	Minor Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**

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POLYPROPYLENE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Minor Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Nitroethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Nitrogen

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Nitrogen Tetroxide

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Nitroglycerine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
COPPER	No Effect
KALREZ	No Effect

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Nitromethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Nitropropane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Nitrosyl Chloride

Material Compatibility

MATERIAL	EFFECT
KALREZ	No Effect
TEFLON	No Effect

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Nitrous Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect

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Nitrous Gases

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
TEFLON	No Effect

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Nitrous Oxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NORPRENE	No Effect
NYLON (Polyamide)	Moderate Effect
POLYPROPYLENE	Moderate Effect
POLYSULFONE	No Effect
PVC	No Effect
TEFLON	No Effect

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NORPRENE

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetyl Chloride	**Severe Effect**
Alcohol, Amyl	Moderate Effect
Alcohol, Benzyl	Moderate Effect
Alcohol, Butyl	Moderate Effect
Alcohol, Diacetone	**Severe Effect**
Alcohol, Ethyl	Moderate Effect
Alcohol, Isopropyl	Minor Effect
Alcohol, Methyl	Moderate Effect
Alcohol, Propyl	Moderate Effect
Aluminum Ammonium Sulfate	No Effect
Aluminum Chloride	No Effect
Aluminum Sulfate	No Effect
Alums	No Effect
AMERSEP MP-7	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonium Carbonate	No Effect
Ammonium Chloride	No Effect
Ammonium Hydroxide	No Effect
Ammonium Nitrate	No Effect
Ammonium Sulfate	No Effect
Amyl Acetate	No Effect
Amyl Chloride	**Severe Effect**
Aniline	**Severe Effect**
Aqua Regia	Moderate Effect
Beer	**Severe Effect**
Benzaldehyde	Moderate Effect
Benzene	**Severe Effect**
Benzoic Acid	**Severe Effect**

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Boric Acid ---------- No Effect
Bromine Water ---------- No Effect
Bromine, Liquid ---------- No Effect
Butane ---------- Moderate Effect
Butyric Acid ---------- Minor Effect
Carbon Tetrachloride ---------- **Severe Effect**
Caustic Soda ---------- No Effect
Chlorine Water ---------- No Effect
Chlorine, Liquid, Anhydrous ---------- No Effect
Chloroacetic Acid ---------- Minor Effect
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chromic Acid, 50% ---------- No Effect
Citric Acid ---------- Moderate Effect
Cresol ---------- **Severe Effect**
Cyclohexanol ---------- **Severe Effect**
Ethers ---------- Moderate Effect
Ethyl Acetate ---------- **Severe Effect**
Ethyl Chloride ---------- **Severe Effect**
Ethyl Mercaptan ---------- **Severe Effect**
Ethylene Bromide ---------- Moderate Effect
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- Minor Effect
Fatty Acids ---------- Minor Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Fluoboric Acid ---------- No Effect
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- No Effect
Formic Acid ---------- No Effect
Freon 12 ---------- **Severe Effect**
Freon 12,13,22,114,115 ---------- **Severe Effect**

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Gas, Natural ---------- No Effect
Gasoline, Refined ---------- **Severe Effect**
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Hydrobomic Acid, 20% ---------- Moderate Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid, 50% ---------- Moderate Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hypochlorous Acid ---------- No Effect
Iodine ---------- No Effect
Kerosene ---------- **Severe Effect**
Lactic Acid, 25% ---------- Minor Effect
Lavender Oil ---------- **Severe Effect**
Lead Acetate ---------- No Effect
Lemon Oil ---------- **Severe Effect**
Linseed Oil ---------- No Effect
Lithium Bromide ---------- **Severe Effect**
Magnesium Chloride ---------- No Effect
Magnesium Sulfate ---------- No Effect
Maleic Acid ---------- No Effect
Malic Acid ---------- Moderate Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- Moderate Effect
Milk ---------- Moderate Effect
Mixed Acids ---------- Moderate Effect
Naphtha, Petroleum ---------- **Severe Effect**
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- Moderate Effect
Nitrobenzene ---------- **Severe Effect**
Nitrous Oxide ---------- No Effect
Oils and Fats ---------- Moderate Effect

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Oleic Acid ---------- Minor Effect
Olive Oil ---------- Moderate Effect
Oxalic Acid ---------- No Effect
Perchloric Acid, 10% ---------- **Severe Effect**
Perchloric Acid, 70% ---------- **Severe Effect**
Perchloroethylene ---------- **Severe Effect**
Phenol ---------- Moderate Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Plating Solutions ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Hydroxide ---------- No Effect
Silver Nitrate ---------- No Effect
Soaps ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Silicate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
SP-90X ---------- No Effect
Steric Acid ---------- Minor Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide ---------- No Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 75% ---------- Minor Effect
Sulfuric Acid, 98.5% ---------- **Severe Effect**

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Sulfurous Acid ---------- Moderate Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- Minor Effect
Tartaric Acid ---------- **Severe Effect**
THIO-RED ---------- No Effect
Toluene ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Turpentine ---------- **Severe Effect**
Urea ---------- **Severe Effect**
Vinegar ---------- Moderate Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- Moderate Effect
Wines ---------- Moderate Effect
Xylene ---------- **Severe Effect**
Zinc Chloride ---------- No Effect

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NORYL

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetamide	No Effect
Acetate Solvents	**Severe Effect**
Acetic Acid	No Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 80%	Minor Effect
Acetic Acid, 95%	No Effect
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Alcohol	Minor Effect
Alcohol, Amyl	Moderate Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Alum	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Fluoride	No Effect
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 100%	No Effect
Aluminum Sulfate	No Effect

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Amines ---------- Minor Effect
Ammonia ---------- No Effect
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Aqueous 30% ---------- No Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Bifluoride, 10% ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Casenite ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Dihydrogen Phosphate ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- Moderate Effect
Amyl Chloride ---------- **Severe Effect**
Amyl Chloride ---------- Moderate Effect
Aniline ---------- **Severe Effect**
Aniline Oil ---------- **Severe Effect**
Aqua Regia ---------- **Severe Effect**
Arochlor 1248 ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Fluoride ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect

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Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- **Severe Effect**
Benzoic Acid ---------- Moderate Effect
Benzol ---------- **Severe Effect**
Borax ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid ---------- **Severe Effect**
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Bromine, Liquid ---------- **Severe Effect**
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Butane ---------- **Severe Effect**
Butter ---------- Minor Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Alcohol ---------- No Effect
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 30% Boiling ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Hypochlorite, 5% 70 F ---------- No Effect
Calcium Sulfate ---------- No Effect
Calgon ---------- No Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- Minor Effect

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Carbon Tetrachloride ---------- **Severe Effect**
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Catsup ---------- No Effect
Caustic Liquid ---------- Minor Effect
Caustic Soda ---------- No Effect
Chlorinated Glue ---------- Moderate Effect
Chlorinated Solvents ---------- **Severe Effect**
Chlorinated Water, Saturate ---------- Minor Effect
Chlorine ---------- **Severe Effect**
Chlorine Trifluoride ---------- Moderate Effect
Chlorine Water ---------- Moderate Effect
Chlorine, Anhydrous Liquid ---------- No Effect
Chloroacetic Acid ---------- Moderate Effect
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chromic Acid ---------- **Severe Effect**
Chromic Acid, 10% ---------- Minor Effect
Chromic Acid, 5% ---------- Moderate Effect
Chromic Acid, 50% ---------- **Severe Effect**
Chromium Plating, Barrel Chrome Bath 95 F ---- **Severe Effect**
Chromium Plating, Black Chrome Bath 115 F ---- **Severe Effect**
Chromium Plating, Chromic-Sulfuric Bath 130 F **Severe Effect**
Chromium Plating, Fluoride Bath 130 F -------- **Severe Effect**
Chromium Plating, Fluosilicate Bath 95 F ----- **Severe Effect**
Cider (Apple Juice) ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, Hot Conc. ---------- No Effect
Citric Oils ---------- No Effect
Coffee ---------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Chloride ---------- No Effect

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Copper Cyanide ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- No Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),
Copper Strike Bath 120 F ---------- No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Corn Oil ---------- **Severe Effect**
Cream ---------- No Effect
Cyclohexane ---------- **Severe Effect**
Cycolic Acid ---------- No Effect
Detergent Solutions ---------- Minor Effect
Diesel Fuel ---------- **Severe Effect**
Diesel Fuel Oil (2D,3D,4D,5D) ---------- **Severe Effect**
Diethylamine ---------- Minor Effect
Diethylene Glycol ---------- No Effect
Dyes ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- **Severe Effect**
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Alcohol ---------- No Effect
Ethyl Cellosolve ---------- Moderate Effect
Ethyl Chloride ---------- **Severe Effect**
Ethylene Chloride ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Fatty Acids ---------- Minor Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect

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Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluboric Acid ---------- Minor Effect
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- **Severe Effect**
Formaldehyde, 40% ---------- No Effect
Formic Acid ---------- No Effect
Freon ---------- **Severe Effect**
Freon 11 ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Freon 22 ---------- Minor Effect
Freon T.F. ---------- **Severe Effect**
Fruit Juices ---------- No Effect
Fuel Oil ---------- **Severe Effect**
Fuel Oil (1,2,3,5A,5B,6) ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Gasoline (Petrol) ---------- **Severe Effect**
Gelatin ---------- No Effect
Glucose ---------- Minor Effect
Glycerine or Glycerol ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- No Effect
Heptane ---------- **Severe Effect**
Hexane ---------- **Severe Effect**
Honey ---------- No Effect
Hydraulic Oil ---------- **Severe Effect**
Hydrobromic Acid ---------- Moderate Effect
Hydrobromic Acid, 20% ---------- No Effect
Hydrocarbons, Pure ---------- **Severe Effect**
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- No Effect

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Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid ---------- No Effect
Hydrofluoric Acid, 20% ---------- No Effect
Hydrofluoric Acid, 50% ---------- No Effect
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- No Effect
Hydrofluosilicic Acid, 20% ---------- Minor Effect
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Sulfide ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- Minor Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- Moderate Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- No Effect
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- No Effect
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- No Effect
Isopar G ---------- **Severe Effect**
Isopropyl Alcohol ---------- No Effect
Isopropyl Ether ---------- **Severe Effect**
Isotane ---------- **Severe Effect**
Jet Fuel (JP3,JP4,JP5) ---------- **Severe Effect**
Kerosene ---------- **Severe Effect**
Ketones ---------- **Severe Effect**
Lacquer Solvents ---------- **Severe Effect**
Lacquer Thinners ---------- **Severe Effect**
Lacquers ---------- Moderate Effect
Lactic Acid ---------- No Effect
Latex ---------- No Effect
Lead Acetate ---------- No Effect
Lead Fluoborate Plating ---------- No Effect
Ligroin ---------- **Severe Effect**
Lime ---------- No Effect

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Lime, 30% ---------- Minor Effect
Lubricating Oils ---------- **Severe Effect**
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfide ---------- No Effect
Maleic Acid ---------- No Effect
Manganese Chloride ---------- No Effect
Manganese Sulfate ---------- No Effect
Mash ---------- No Effect
Mayonnaise ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercuric Sulfate ---------- No Effect
Mercury ---------- No Effect
Methyl Acetone ---------- **Severe Effect**
Methyl Cellosolve ---------- Moderate Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Dichloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methylamine ---------- Minor Effect
Methylene Chloride ---------- **Severe Effect**
Milk ---------- No Effect
Mineral Oils ---------- **Severe Effect**
Molasses ---------- Minor Effect
Mustard ---------- Minor Effect
Naptha ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Nickel Chloride ---------- No Effect
Nickel Plating, Electroless 200 F ---------- **Severe Effect**
Nickel Plating, Fluoborate 100-170 F --------- No Effect
Nickel Plating, High Chloride 130-160 F ------ No Effect

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Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Sulfate ------------------------------- No Effect
Nitric Acid ---------------------------------- **Severe Effect**
Nitric Acid (Conc) --------------------------- **Severe Effect**
Nitric Acid, 10% ----------------------------- No Effect
Nitric Acid, 20% ----------------------------- Minor Effect
Nitric Acid, 50% ----------------------------- No Effect
Nitric Oxide --------------------------------- Moderate Effect
Nitrobenzene --------------------------------- **Severe Effect**
Oil - No. 1 ASTM ----------------------------- **Severe Effect**
Oil - No. 3 ASTM ----------------------------- **Severe Effect**
Oleic Acid ----------------------------------- Moderate Effect
Oleum, 25% ----------------------------------- **Severe Effect**
Oxalic Acid ---------------------------------- Moderate Effect
Paraffins (Paraffin Oil) --------------------- Minor Effect
Penthane ------------------------------------- **Severe Effect**
Perchloroethylene ---------------------------- **Severe Effect**
Petrolatum ----------------------------------- **Severe Effect**
Phenol (Carbolic Acid) ----------------------- Moderate Effect
Phosphoric Acid ------------------------------ No Effect
Phosphoric Acid, 10% ------------------------- No Effect
Photographic Developers ---------------------- No Effect
Photographic Fixer --------------------------- **Severe Effect**
Photographic Solutions ----------------------- No Effect
Plating Solutions, Antimony ------------------ No Effect
Plating Solutions, Arsenic ------------------- No Effect
Potash --------------------------------------- No Effect
Potassium Bicarbonate ------------------------ No Effect
Potassium Bromide ---------------------------- No Effect
Potassium Carbonate -------------------------- No Effect
Potassium Chlorate --------------------------- No Effect
Potassium Chloride --------------------------- No Effect
Potassium Chromate --------------------------- No Effect
Potassium Copper Cyanide --------------------- No Effect
Potassium Dichromate ------------------------- No Effect

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Potassium Dichromate 40% ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propane (Liquefied) ---------- **Severe Effect**
Propylene Glycol ---------- Minor Effect
Pyridine ---------- **Severe Effect**
Rhodium Plating 120 F ---------- No Effect
Rum ---------- No Effect
Salad Dressing ---------- No Effect
Saline Solution - All Conc. ---------- No Effect
Sea Water ---------- No Effect
Silicone ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hypochlorite ---------- No Effect

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Sodium Hypochlorite (to 20%) ---------- No Effect
Sodium Iodide ---------- Minor Effect
Sodium Nitrate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Soft Drink Syrups ---------- No Effect
Solvent - Toner Kerosene Base ---------- **Severe Effect**
Soy Sauce ---------- No Effect
Soybean Oil ---------- **Severe Effect**
Stannic Chloride ---------- No Effect
Stannic Fluoborate ---------- No Effect
Stannous Chloride ---------- No Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- **Severe Effect**
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Trioxide ---------- **Severe Effect**
Sulfuric Acid ---------- Moderate Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfurous Acid ---------- No Effect
Syrup ---------- No Effect
Tallow ---------- No Effect
Tannic Acid ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrachloroethane ---------- **Severe Effect**

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Tetrahydrofuran ---------- **Severe Effect**
Tin-Fluoborate Plating 100 F ---------- No Effect
Tin-Lead Plating 100 F ---------- No Effect
Toluene ---------- **Severe Effect**
Tomato Pulp & Juice ---------- No Effect
Tributyl Phosphate ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Trichloropropane ---------- **Severe Effect**
Tricresyl Phosphate ---------- No Effect
Triethanolamine ---------- Minor Effect
Turpentine ---------- **Severe Effect**
Urine ---------- No Effect
Varnish ---------- **Severe Effect**
Vegetable Juices ---------- No Effect
Vegetable Oils ---------- **Severe Effect**
Vinegar ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Deionized ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Glycol ---------- No Effect
Water, Salt ---------- No Effect
Wetting Agents ---------- Minor Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
Xylene ---------- **Severe Effect**
Zinc Chloride ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ No Effect
Zinc Plating, Acid Sulfate Bath 150 F -------- No Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Sulfate ---------- No Effect

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NYLON (Polyamide)

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetamide	No Effect
Acetate Solvents	No Effect
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 20%	**Severe Effect**
Acetic Acid, 30%	Minor Effect
Acetic Acid, 5%	**Severe Effect**
Acetic Acid, 50%	Minor Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	No Effect
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	No Effect
Acetyl Chloride	**Severe Effect**
Acetylene (Ethyne)	No Effect
Acrylonitrile	No Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	Minor Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect

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Alcohol, Propyl ---------- **Severe Effect**
Aluminum Ammonium Sulfate ---------- No Effect
Aluminum Chloride ---------- **Severe Effect**
Aluminum Chloride, 20% ---------- No Effect
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ **Severe Effect**
Aluminum Sulfate ---------- No Effect
Alums ---------- Moderate Effect
AMERSEP MP-7 ---------- Minor Effect
Amines ---------- No Effect
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- Minor Effect
Ammonia, Nitrate ---------- **Severe Effect**
Ammonium Bicarbonate ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Chloride ---------- Minor Effect
Ammonium Chloride, 1% ---------- No Effect
Ammonium Chloride, 10% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 28% Solution Boiling ------ **Severe Effect**
Ammonium Chloride, 50% Solution Boiling ------ **Severe Effect**
Ammonium Diphosphate ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Monophosphate ---------- No Effect
Ammonium Nitrate ---------- **Severe Effect**
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Phosphate ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- **Severe Effect**

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Ammonium Sulphate 1%-5% ---------- **Severe Effect**
Ammonium Sulphate 10% Boiling ---------- **Severe Effect**
Ammonium Sulphate Saturated (Boiling) -------- **Severe Effect**
Ammonium Sulphite (Boiling) ---------- **Severe Effect**
Ammonium Triphosphate ---------- No Effect
Amyl Acetate ---------- Minor Effect
Amyl Alcohol ---------- No Effect
Aniline ---------- Moderate Effect
Aniline Dyes ---------- **Severe Effect**
Aniline Oil ---------- Moderate Effect
Antimony Trichloride ---------- **Severe Effect**
Aqua Regia ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Arsenious Acid ---------- **Severe Effect**
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Aqueous Solution (Hot) ------- **Severe Effect**
Barium Chloride, 5% ---------- **Severe Effect**
Barium Hydroxide ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfate Aqueous Solution (Hot) -------- **Severe Effect**
Barium Sulfide ---------- No Effect
Beer ---------- **Severe Effect**
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- Moderate Effect
Benzene ---------- No Effect
Benzoic Acid ---------- **Severe Effect**
Benzol ---------- **Severe Effect**
Black Sulfate Liquor ---------- No Effect
Bleaching Powder (Wet) ---------- No Effect
Borax ---------- **Severe Effect**
Bordeaux Mixture ---------- No Effect

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Boric Acid ---------- **Severe Effect**
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Brine ---------- No Effect
Bromine, Liquid ---------- **Severe Effect**
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butter ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- **Severe Effect**
Calcium Bisulfate ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- **Severe Effect**
Calcium Hydroxide ---------- Minor Effect
Calcium Hydroxide, 10% (Boiling) ---------- **Severe Effect**
Calcium Hydroxide, 20% (Boiling) ---------- **Severe Effect**
Calcium Hydroxide, 50% (Boiling) ---------- **Severe Effect**
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Sulfate ---------- No Effect
Calgon ---------- No Effect
Cane Juice ---------- No Effect
Carbolic Acid ---------- **Severe Effect**
Carbon Bisulfide ---------- No Effect

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Carbon Disulfide ---------- No Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- Minor Effect
Carbon Tetrachloride-Pure ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Caustic Soda ---------- Minor Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorinated Glue ---------- Moderate Effect
Chlorine Water ---------- Minor Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Liquid, Anhydrous ---------- Minor Effect
Chloroacetic Acid ---------- **Severe Effect**
Chlorobenzene ---------- No Effect
Chloroform ---------- Moderate Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorox ---------- **Severe Effect**
Chocolate Syrup ---------- No Effect
Chromic Acid, 10% ---------- **Severe Effect**
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromium Plating, Barrel Chrome Bath 95 F ---- **Severe Effect**
Chromium Plating, Black Chrome Bath 115 F ---- **Severe Effect**
Chromium Plating, Chromic-Sulfuric Bath 130 F **Severe Effect**
Chromium Plating, Fluoride Bath 130 F -------- **Severe Effect**
Chromium Plating, Fluosilicate Bath 95 F ----- **Severe Effect**
Cider (Apple Juice) ---------- No Effect
Citric Acid ---------- Moderate Effect
Citric Acid, 15% Solution ---------- No Effect
Citric Acid, 15% Solution (Boiling) ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- No Effect

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Citric Acid, 5% Solution (@ 150 F) ---------- **Severe Effect**
Citric Acid, Concentrated (Boiling) ---------- **Severe Effect**
Citric Oils ---------- No Effect
Clove Oil ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copal Varnish ---------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Chloride ---------- **Severe Effect**
Copper Chloride, 1% ---------- **Severe Effect**
Copper Chloride, 5% Solution ---------- **Severe Effect**
Copper Cyanide ---------- **Severe Effect**
Copper Nitrate ---------- **Severe Effect**
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- **Severe Effect**
Copper Plating (Acid),Copper Sulfate Bath R.T. **Severe Effect**
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Sulfate ---------- Moderate Effect
Copper Sulfate, 5% ---------- **Severe Effect**
Core Oil ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Creosols ---------- **Severe Effect**
Creosote, Coal-Tar ---------- **Severe Effect**
Creosote, Wood-Tar ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Cyclohexanone ---------- No Effect
Detergent Solutions ---------- No Effect
Dichlorethane ---------- No Effect
Dichloropenthane ---------- No Effect

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Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethyl Amine ---------- No Effect
Diethylene Glycol ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- Moderate Effect
Ethyl Acetate ---------- **Severe Effect**
Ethyl Benzene ---------- No Effect
Ethyl Chloride ---------- **Severe Effect**
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Sulfate ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- Minor Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 1% Solution (Boiling) ------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Chloride, 5% Agitated or Aerated ------ No Effect
Ferric Chloride, 5% Solution (Still) --------- No Effect
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- Minor Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Ferrous Sulfate (Saturated) ---------- No Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fish Liver Oils ---------- No Effect
Fluboric Acid ---------- Moderate Effect
Fluoboric Acid ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- Moderate Effect
Formaldehyde (Hot) ---------- No Effect

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Formaldehyde, 40% ---------- **Severe Effect**
Formic Acid ---------- **Severe Effect**
Formic Acid (Dilute Cold) ---------- No Effect
Freon 11 ---------- **Severe Effect**
Freon 113 ---------- No Effect
Freon 12 ---------- **Severe Effect**
Freon 12,13,22,114,115 ---------- **Severe Effect**
Freon 22 ---------- No Effect
Freon T.F. ---------- **Severe Effect**
Fruit Juice Pulp ---------- **Severe Effect**
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Furfural ---------- No Effect
Gallic Acid ---------- No Effect
Gasoline (Meter) ---------- **Severe Effect**
Gasoline, Refined ---------- No Effect
Gelatin ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- Minor Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrobromic Acid ---------- **Severe Effect**
Hydrobromic Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- **Severe Effect**

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Hydrochloric Acid (Dilute) ---------- **Severe Effect**
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrocloric Acid 3 Molar ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 50% ---------- **Severe Effect**
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- **Severe Effect**
Hydrogen Peroxide, 30% ---------- **Severe Effect**
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide (Dry) ---------- **Severe Effect**
Hydrogen Sulfide Dry, Hot ---------- No Effect
Hydrogen Sulfide Wet, Cold ---------- No Effect
Hydrogen Sulfide Wet, Hot ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hypochlorous Acid ---------- No Effect
Indium Sulfamate Plating R.T. ---------- **Severe Effect**
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- **Severe Effect**
Iodoform ---------- No Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - **Severe Effect**
Iron Plating, Ferrous Chloride Bath 190 F ---- **Severe Effect**
Iron Plating, Ferrous Sulfate Bath 150 F ----- **Severe Effect**
Iron Plating, Fluoborate Bath 145 F ---------- **Severe Effect**
Iron Plating, Sulfamate 140 F ---------- **Severe Effect**
Iron Plating, Sulfate-Chloride Bath 160 F ---- **Severe Effect**
Isopropyl Alcohol ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Kerosene ---------- No Effect

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Ketones ---------- No Effect
Lacquer Thinners ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid ---------- Moderate Effect
Lactic Acid, 5% Solution ---------- No Effect
Lard ---------- No Effect
Latex ---------- Minor Effect
Lead Acetate ---------- No Effect
Lead Fluoborate Plating ---------- **Severe Effect**
Lime Slurries ---------- No Effect
Lime Sulfur ---------- No Effect
Linseed Oil ---------- No Effect
Lubricants ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydorxide ---------- Minor Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- No Effect
Malic Acid ---------- No Effect
Mayonnaise ---------- No Effect
Melamine Resins ---------- No Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercury ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Alcohol, 10% ---------- No Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- Minor Effect
Methyl Dichloride ---------- **Severe Effect**

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Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Isobutyl Ketone ---------- No Effect
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Natural Gas ---------- No Effect
Nickel Chloride ---------- Minor Effect
Nickel Nitrate ---------- No Effect
Nickel Plating, Electroless 200 F ---------- **Severe Effect**
Nickel Plating, Fluoborate 100-170 F --------- **Severe Effect**
Nickel Plating, High Chloride 130-160 F ------ **Severe Effect**
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Sulfate ---------- Minor Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- **Severe Effect**
Nitrobenzene ---------- Moderate Effect
Nitrous Oxide ---------- Moderate Effect
Oils and Fats ---------- No Effect
Oleic Acid ---------- No Effect
Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oxalic Acid ---------- **Severe Effect**
Oxalic Acid, 10% Solution ---------- Minor Effect
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect

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Oxygen, Cold ---------- No Effect
Paint Thinner, DUCO ---------- No Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Penthane ---------- No Effect
Petrolatum ---------- **Severe Effect**
Phenol ---------- **Severe Effect**
Phenol (Carbolic Acid) ---------- **Severe Effect**
Phenol, 10% ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphoric Anhydride (Molten) ---------- No Effect
Photographic Solutions ---------- Minor Effect
Phthalic Anhydride ---------- No Effect
Picric Acid ---------- No Effect
Picric Acid, H2O Solution ---------- Minor Effect
Pine Oil ---------- No Effect
Pitch ---------- No Effect
Plating Solutions, Antimony ---------- **Severe Effect**
Plating Solutions, Arsenic ---------- No Effect
Potash ---------- No Effect
Potassium Alum ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- Moderate Effect
Potassium Carbonate ---------- Moderate Effect
Potassium Chlorate ---------- **Severe Effect**
Potassium Chloride ---------- Minor Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- **Severe Effect**
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 5% Solution ---------- No Effect

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Potassium Hydroxide, 50% ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Monophosphates ---------- No Effect
Potassium Nitrate ---------- Moderate Effect
Potassium Permanganate ---------- **Severe Effect**
Potassium Permanganate, 5% ---------- No Effect
Potassium Sulfate ---------- Moderate Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Triphosphate ---------- No Effect
Prestone ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propylene Glycol ---------- Minor Effect
Pyrogallic Acid ---------- No Effect
Rayon Spin Bath ---------- No Effect
Rhodium Plating 120 F ---------- **Severe Effect**
Rosin ---------- No Effect
Rum ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicone ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Moderate Effect
Sodium Bisulfite ---------- **Severe Effect**
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- Minor Effect

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Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Cyanide ---------- Moderate Effect
Sodium Dichromate ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Fluoride, 5% ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- Moderate Effect
Sodium Hydroxide, 20% ---------- Moderate Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 50% ---------- Moderate Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- No Effect
Sodium Hydroxide, 80% ---------- Moderate Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- No Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- Minor Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Orthosilicate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- Minor Effect
Sodium Polyphosphate ---------- No Effect
Sodium Pyrophosphate ---------- No Effect
Sodium Resinate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- Minor Effect

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Sodium Sulfide ---------- Minor Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- **Severe Effect**
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Tetraphosphate ---------- No Effect
Sodium Thiosulfate ---------- Minor Effect
Sodium Triphosphate ---------- No Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- Minor Effect
Stannic Chloride ---------- Minor Effect
Stannous Chloride ---------- **Severe Effect**
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- Moderate Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide ---------- **Severe Effect**
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfuric Acid, 75% ---------- **Severe Effect**
Sulfuric Acid, 98.5% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- **Severe Effect**
Sulphuric Acid, 10% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, 5% ---------- **Severe Effect**
Sulphuric Acid, 5% Solution (Boiling) -------- **Severe Effect**
Sulphuric Acid, 50% Solution (Boiling) ------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- **Severe Effect**
Sulphurous Acid - Saturated ---------- Minor Effect

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Syrup ---------- No Effect
Talc Slurry ---------- No Effect
Tallow ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- **Severe Effect**
Tannin ---------- No Effect
Tar and Tar Oil ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- Minor Effect
Tetrahydrofuran ---------- No Effect
THIO-RED ---------- Minor Effect
Tin-Fluoborate Plating 100 F ---------- **Severe Effect**
Tin-Lead Plating 100 F ---------- **Severe Effect**
Toluene ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Trichloroethylene ---------- Moderate Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Tung Oil ---------- No Effect
Turpentine ---------- Moderate Effect
Urine ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oil (Hot) ---------- No Effect
Vegetable Oils ---------- No Effect
Vinegar ---------- Moderate Effect
Water Acid, Mine ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- Minor Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Weed Killers ---------- No Effect

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Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Water (Paper Mill) ---------- No Effect
Xylene ---------- No Effect
Zeolite ---------- No Effect
Zinc Acetate ---------- No Effect
Zinc Chloride ---------- Minor Effect
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- **Severe Effect**
Zinc Plating, Acid Fluoborate Bath R.T. ------ **Severe Effect**
Zinc Plating, Acid Sulfate Bath 150 F -------- **Severe Effect**
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Sulfate ---------- Minor Effect
Zinc Sulfate, 5% Solution ---------- No Effect
Zinc Sulfate, Saturated Solution ---------- No Effect

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O-Chloronaphthalene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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o-Chlorophenol

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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O-Chlorphenol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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o-Dichlorobenzene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	Minor Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Octachlorotoluene

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Octadecane

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Octyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
KALREZ	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Octyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Oil - No. 1 ASTM

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
HYPALON	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Oil - No. 3 ASTM

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
HYPALON	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Oils (Animal)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect

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Oils and Fats

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
BUNA	Moderate Effect
ETHYLENE PROPYLENE	**Severe Effect**
NORPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**

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Oils, Crude

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Oleic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	Minor Effect
NORYL	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	Minor Effect

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PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TYGON (E-3606)	Moderate Effect
VINYL	No Effect
VITON	Moderate Effect

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Olein

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Oleum

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HYPALON	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	**Severe Effect**

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Oleum (Fuming Sulfuric Acid)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Oleum Spirits

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Oleum, 25%

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
CERAMIC	No Effect
EPOXY	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
PVC	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Olive Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NEOPRENE	**Severe Effect**
NORPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
SILICON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
VITON	No Effect

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Orange Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Oronite 8200

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Oronite 8515

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Ortho-Dichlorobenzene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Orthochloro Ethyl Benzene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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OS 45 Type III (OS45)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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OS 45 Type IV (OS45-1)

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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OS 70

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Oxalic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect

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TITANIUM ---------- Moderate Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Oxalic Acid, 10% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Oxalic Acid, 10% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Oxalic Acid, 5% (Hot and Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Oxygen, 200-400 degrees F

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Oxygen, Cold

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Oxygen, Gaseous

Material Compatibility

MATERIAL	EFFECT
PVDF 150 DEGREES (KYNAR)	No Effect

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Ozone

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Ozone (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Ozone (Wet)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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P-Cymene

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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P-Dichlorobenzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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P-Tertiary Butyl Catechol

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Paint Thinner, DUCO

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Paints & Solvents

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Palm Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Palmitic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Para-Dichlorobenzene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Paraffins (Paraffin Oil)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Paraformaldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
HASTELLOY C	No Effect
KALREZ	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	Moderate Effect

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Paraldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Paralketone

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Peanut Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pentacetate

Material Compatibility

MATERIAL	EFFECT
TEFLON	No Effect

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Pentachloroethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pentachlorophenol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pentane, 2 Methyl

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pentane, 2-4, Dimethyl

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pentane, 3-Methyl

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pentanedione-2,4

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect
NEOPRENE	No Effect

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Penthane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Moderate Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Peppermint Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Perchloric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Perchloric Acid, 10%

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
HYPALON	Moderate Effect
NORPRENE	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	Moderate Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Perchloric Acid, 70%

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
HYPALON	Moderate Effect
NORPRENE	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	Moderate Effect
PVC	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VINYL	**Severe Effect**
VITON	No Effect

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Perchloroethylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**

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PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Permachlor (Degreasing Fluid)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
TEFLON	No Effect
VITON	No Effect

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Petrolatum

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Petroleum Ether

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Petroleum Oil, Above 250 degrees F

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	Minor Effect

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Petroleum Oil, Below 250 degrees F

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Petroleum Oil, Crude

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Petroleum Oils (Refined)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect

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Petroleum Oils (Sour)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NEOPRENE	Moderate Effect
POLYETHYLENE	**Severe Effect**
PVC	No Effect
TEFLON	No Effect
VITON	No Effect
VITON	No Effect

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Phenethyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Phenol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	Moderate Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Moderate Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Moderate Effect
NORPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Moderate Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
VINYL ---------- Moderate Effect
VITON ---------- No Effect

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Phenol (Carbolic Acid)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	**Severe Effect**
EPOXY	Minor Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Minor Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
TITANIUM	Moderate Effect
TYGON (E-3606)	Moderate Effect
VITON	No Effect

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Phenol Sulfonic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Phenol, 10%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
EPOXY	Moderate Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
TYGON (E-3606)	Moderate Effect
VITON	Minor Effect

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Phenol, 70%/30% H2O

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BUNA	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Phenol, 85%/15% H2O

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BUNA	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Phenolic Sulphonate

Material Compatibility

MATERIAL	EFFECT
KALREZ	No Effect
TEFLON	No Effect

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PHENOLIC

Chemical Compatibility

CHEMICAL	EFFECT
Acetate Solvents	No Effect
Acetic Acid	No Effect
Acetone	Minor Effect
Alcohol	No Effect
Alum	Minor Effect
Aluminum Chloride	**Severe Effect**
Ammonia	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonium Chloride	No Effect
Ammonium Hydroxide	No Effect
Ammonium Sulfate	No Effect
Barium Chloride	Minor Effect
Barium Fluoride	**Severe Effect**
Barium Nitrate	Minor Effect
Barium Sulfate	No Effect
Benzoic Acid	Moderate Effect
Boric Acid	Minor Effect
Butyl Alcohol	Minor Effect
Calcium Bisulfite	Minor Effect
Calcium Chloride	Minor Effect
Calcium Hydroxide	**Severe Effect**
Carbon Bisulfide	Minor Effect
Carbon Disulfide	Minor Effect
Caustic Soda	Minor Effect
Chlorinated Solvents	No Effect
Chlorinated Water, Saturate	No Effect
Chlorine	**Severe Effect**
Chlorine Trifluoride	**Severe Effect**
Chloroacetic Acid	**Severe Effect**
Chromic Acid	**Severe Effect**
Citric Acid	Minor Effect
Copper Sulfate	Minor Effect

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Corn Oil ---------- Minor Effect
Cyclohexane ---------- Minor Effect
Detergent Solutions ---------- Minor Effect
Ethyl Acetate ---------- Minor Effect
Ethyl Alcohol ---------- No Effect
Ethyl Cellosolve ---------- Minor Effect
Ethyl Chloride ---------- Minor Effect
Ethylene Glycol ---------- Minor Effect
Ferric Chloride ---------- Minor Effect
Ferric Sulfate ---------- **Severe Effect**
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Fluorine ---------- **Severe Effect**
Formaldehyde ---------- Moderate Effect
Freon ---------- Moderate Effect
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- No Effect
Gasoline (Petrol) ---------- Minor Effect
Glycerine or Glycerol ---------- Minor Effect
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrofluoric Acid ---------- Minor Effect
Hydrofluosilicic Acid ---------- Minor Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Sulfide ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Lacquer Solvents ---------- Minor Effect
Lubricating Oils ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydorxide ---------- **Severe Effect**
Magnesium Sulfide ---------- Minor Effect
Manganese Chloride ---------- Minor Effect
Manganese Sulfate ---------- Minor Effect
Mercuric Sulfate ---------- Minor Effect
Methyl Chloride ---------- Moderate Effect
Methyl Ethyl Ketone ---------- No Effect

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Mineral Oils ---------- No Effect
Mustard ---------- Minor Effect
Nickel Chloride ---------- Minor Effect
Nickel Sulfate ---------- Moderate Effect
Nitric Acid ---------- Moderate Effect
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Oxide ---------- **Severe Effect**
Oil - No. 1 ASTM ---------- Minor Effect
Oil - No. 3 ASTM ---------- Minor Effect
Phosphoric Acid ---------- No Effect
Photographic Developers ---------- Minor Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Hydroxide ---------- Moderate Effect
Potassium Nitrate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propylene Glycol ---------- No Effect
Silicone Oils ---------- Minor Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- Moderate Effect
Sodium Hypochlorite ---------- No Effect
Sodium Iodide ---------- Moderate Effect
Sodium Nitrate ---------- No Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Soybean Oil ---------- Minor Effect

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Stannic Chloride	No Effect
Stannous Chloride	No Effect
Sulfur Dioxide	No Effect
Sulfuric Acid	Minor Effect
Sulfurous Acid	Moderate Effect
Toluene	No Effect
Tributyl Phosphate	Minor Effect
Trichloroethane	Moderate Effect
Turpentine	No Effect
Vegetable Oils	Minor Effect
Vinegar	Minor Effect
Water, Fresh	No Effect
Water, Glycol	Minor Effect
Zinc Chloride	Minor Effect
Zinc Sulfate	No Effect

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Phenyl Acetate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Phenyl Ethyl Ether

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Phenyl Hydrazine

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Phenylbenzene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Phorone

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Phosgene, Gas

Material Compatibility

MATERIAL	EFFECT
ACRYLIC	Moderate Effect
POLYPROPYLENE	Moderate Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect

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Phosphate Esters

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect
FLOURAZ	No Effect

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Phosphoric Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	**Severe Effect**
CERAMIC ALUMINA	**Severe Effect**
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
MONEL	Minor Effect
NEOPRENE	Minor Effect
NORYL	No Effect
PHENOLIC	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Phosphoric Acid (Aerated)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
TEFLON	No Effect

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Phosphoric Acid (Conc)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid (Crude)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	Moderate Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	Moderate Effect
VITON	No Effect

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Phosphoric Acid Air Free

Material Compatibility

MATERIAL	EFFECT
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
TEFLON	No Effect

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Phosphoric Acid, 1% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BRASS	**Severe Effect**
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 10%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC BARIUM FERRITE	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 10% Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 20%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 25%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NORPRENE	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
SILICONE	Moderate Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Phosphoric Acid, 3 Molar

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 50%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect

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PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RYTON ---------- No Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Phosphoric Acid, 50% Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
FLOURAZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 85% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
NEOPRENE	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Acid, 85% Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
FLOURAZ	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Phosphoric Anhydride (Dry or Moist)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
NEOPRENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	No Effect
TEFLON	No Effect
TYGON (E-3606)	**Severe Effect**
VITON	**Severe Effect**

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Phosphoric Anhydride (Molten)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Moderate Effect
CAST BRONZE	**Severe Effect**
EPOXY	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Phosphorous

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Phosphorus Oxychloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	Minor Effect
ALUMINUM	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Phosphorus Trichloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	**Severe Effect**
SILICONE	No Effect
TEFLON	No Effect
VITON	No Effect

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Photographic Developers

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	Moderate Effect
CYCOLAC (ABS)	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
MONEL	No Effect
NEOPRENE	No Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Photographic Fixer

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
BUNA	Moderate Effect
CERAMIC ALUMINA	**Severe Effect**
ECTFE	No Effect
EPT	No Effect
HYPALON	Moderate Effect
MONEL	Minor Effect
NORYL	**Severe Effect**
POLYPROPYLENE	No Effect
VITON	Minor Effect

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Photographic Solutions

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	Moderate Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Phthalic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect

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Phthalic Anhydride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
COPPER	No Effect
FLOURAZ	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Phthalic Anhydride (Pure) + Maleic Anhydride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect

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Pickling Solution

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Picric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	**Severe Effect**
SILICONE	Moderate Effect
TEFLON	No Effect
TYGON (E-3606)	No Effect
VINYL	No Effect
VITON	No Effect

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Picric Acid, H2O Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	No Effect
E.P.D.M.	Minor Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Picric Acid, Molten

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Pine Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Moderate Effect
CERAMIC	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	Minor Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pinene

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Piperidine

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Pitch

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Plating Solution, Cadmium

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	Minor Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect

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Plating Solution, Chrome

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Plating Solution, Lead

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect

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Plating Solution, Others

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	Minor Effect

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Plating Solutions

Material Compatibility

MATERIAL	EFFECT
ACRYLIC	No Effect
BUNA	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
NORPRENE	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Plating Solutions, Antimony

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Plating Solutions, Arsenic

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	Moderate Effect
EPOXY	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Pneumatic Service

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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POLYACETAL

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetamide	Minor Effect
Acetic Acid, 5%	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetone	Minor Effect
Acetylene (Ethyne)	No Effect
Acrylonitrile	Minor Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	Minor Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	Moderate Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Chloride, 20%	Moderate Effect
Aluminum Fluoride	Moderate Effect
Aluminum Hydroxide	Minor Effect
Aluminum Potassium Sulfate (Alum), 100%	Moderate Effect
Aluminum Sulfate	Moderate Effect
Amines	**Severe Effect**
Ammonia, Anhydrous, Liquid	**Severe Effect**
Ammonia, Liquids	**Severe Effect**
Ammonia, Nitrate	Moderate Effect
Ammonium Bifluoride, 10%	**Severe Effect**
Ammonium Carbonate	**Severe Effect**
Ammonium Casenite	**Severe Effect**
Ammonium Chloride	Minor Effect

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Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Nitrate ---------- Moderate Effect
Ammonium Oxalate ---------- Minor Effect
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- Minor Effect
Ammonium Sulfate ---------- Minor Effect
Ammonium Thiosulfate ---------- Minor Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Alcohol ---------- Minor Effect
Amyl Chloride ---------- No Effect
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aniline Oil ---------- **Severe Effect**
Anise Oil ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- No Effect
Arsenic Acid ---------- **Severe Effect**
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Cyanide ---------- Minor Effect
Barium Hydroxide ---------- **Severe Effect**
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- No Effect
Beer ---------- Minor Effect
Beet Sugar Liquors ---------- Minor Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzoic Acid ---------- Minor Effect
Benzol ---------- No Effect

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Bone Oil ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect
Brewery Slop ---------- No Effect
Bromine, Liquid ---------- **Severe Effect**
Butadiene ---------- No Effect
Butane ---------- No Effect
Butter ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- Moderate Effect
Calcium Bisulfide ---------- **Severe Effect**
Calcium Carbonate ---------- No Effect
Calcium Chloride ---------- **Severe Effect**
Calcium Hydroxide ---------- Minor Effect
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Sulfate ---------- No Effect
Calgon ---------- Minor Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Disulfide ---------- No Effect
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- Minor Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorobenzene ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorox ---------- **Severe Effect**
Chocolate Syrup ---------- No Effect
Chromic Acid, 5% ---------- **Severe Effect**

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Chromic Acid, 50% ---------- **Severe Effect**
Cider (Apple Juice) ---------- Minor Effect
Citric Acid ---------- Minor Effect
Citric Oils ---------- Minor Effect
Clove Oil ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copper Chloride ---------- Minor Effect
Copper Cyanide ---------- Minor Effect
Copper Fluoborate ---------- Minor Effect
Copper Nitrate ---------- Minor Effect
Copper Sulfate, 5% ---------- Minor Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Cyanic Acid ---------- **Severe Effect**
Cyclohexane ---------- No Effect
Cycolic Acid ---------- Moderate Effect
Detergent Solutions ---------- Minor Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diethylamine ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dyes ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- **Severe Effect**
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethyl Sulfate ---------- Minor Effect
Ethylene Chloride ---------- No Effect

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Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- Minor Effect
Ferric Nitrate ---------- Minor Effect
Ferric Sulfate ---------- Minor Effect
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Fluboric Acid ---------- Minor Effect
Fluosilicic Acid ---------- Minor Effect
Formaldehyde ---------- No Effect
Formic Acid ---------- **Severe Effect**
Freon 11 ---------- No Effect
Freon 113 ---------- No Effect
Freon 12 ---------- No Effect
Freon 22 ---------- No Effect
Freon T.F. ---------- No Effect
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- Minor Effect
Gelatin ---------- No Effect
Ginger Oil ---------- No Effect
Glucose ---------- Minor Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Gold Monocyanide ---------- No Effect
Grape Juice ---------- Minor Effect
Grease ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect

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Hydrazine ---------- **Severe Effect**
Hydrobromic Acid ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrocyanic Acid ---------- Minor Effect
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hydroxyacetic Acid, 70% ---------- **Severe Effect**
Ink ---------- No Effect
Iodine ---------- Moderate Effect
Isopropyl Acetate ---------- No Effect
Isopropyl Ether ---------- No Effect
Isotane ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- Minor Effect
Lacquers ---------- No Effect
Lactic Acid ---------- Minor Effect
Lard ---------- No Effect
Latex ---------- No Effect
Lead Acetate ---------- No Effect
Lead Sulfamate ---------- No Effect
Lemon Oil ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- **Severe Effect**
Linseed Oil ---------- No Effect
Lubricants ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- No Effect

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Maleic Acid ---------- Moderate Effect
Maleic Anhydride ---------- Moderate Effect
Mash ---------- No Effect
Mayonnaise ---------- No Effect
Melamine ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercury ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- No Effect
Methyl Dichloride ---------- No Effect
Methyl Ethyl Ketone ---------- Minor Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methyl Methacrylate ---------- No Effect
Methylamine ---------- **Severe Effect**
Methylene Chloride ---------- No Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- No Effect
Mustard ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Nickel Chloride ---------- Minor Effect
Nickel Sulfate ---------- Minor Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitrobenzene ---------- Minor Effect
Oleic Acid ---------- Minor Effect
Oleum ---------- **Severe Effect**

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Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oxalic Acid ---------- Moderate Effect
Palm Oil ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Peanut Oil ---------- No Effect
Penthane ---------- No Effect
Peppermint Oil ---------- No Effect
Perchloroethylene ---------- No Effect
Petrolatum ---------- No Effect
Phenol (Carbolic Acid) ---------- **Severe Effect**
Phosphoric Acid (Crude) ---------- **Severe Effect**
Photographic Solutions ---------- Moderate Effect
Pine Oil ---------- No Effect
Potash ---------- Minor Effect
Potassium Bicarbonate ---------- Moderate Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- No Effect
Potassium Chromate ---------- Moderate Effect
Potassium Copper Cyanide ---------- Moderate Effect
Potassium Dichromate ---------- Moderate Effect
Potassium Hydroxide, 50% ---------- **Severe Effect**
Potassium Nitrate ---------- Minor Effect
Potassium Permanganate ---------- Moderate Effect
Potassium Sulfate ---------- Minor Effect
Propane (Liquefied) ---------- No Effect
Propylene Glycol ---------- Minor Effect
Pyridine ---------- **Severe Effect**
Pyrogallic Acid ---------- **Severe Effect**
Rape-Seed Oil ---------- No Effect
Rhodium Plating 120 F ---------- **Severe Effect**
Rosin ---------- Minor Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect

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Salad Dressing ---------- No Effect
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicone ---------- No Effect
Silver Bromide ---------- Moderate Effect
Silver Nitrate ---------- Moderate Effect
Soaps ---------- No Effect
Sodium Acetate ---------- Minor Effect
Sodium Aluminate ---------- Minor Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- **Severe Effect**
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- **Severe Effect**
Sodium Cyanide ---------- **Severe Effect**
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- **Severe Effect**
Sodium Hydroxide, 50% ---------- **Severe Effect**
Sodium Hydroxide, 80% ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- **Severe Effect**
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate ---------- **Severe Effect**
Sodium Nitrate ---------- Minor Effect
Sodium Perborate ---------- Minor Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Polyphosphate ---------- Minor Effect
Sodium Silicate ---------- Moderate Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect
Sodium Tetraborate ---------- Minor Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect

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Soybean Oil ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- Moderate Effect
Stannic Fluoborate ---------- Moderate Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Liquors ---------- **Severe Effect**
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- Minor Effect
Sulfur Trioxide ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- **Severe Effect**
Sulfurous Acid ---------- **Severe Effect**
Syrup ---------- No Effect
Tallow ---------- No Effect
Tannic Acid ---------- Minor Effect
Tanning Liquors ---------- Minor Effect
Tanning Oil ---------- No Effect
Tartaric Acid ---------- Minor Effect
Tetrachloroethane ---------- No Effect
Tetrahydrofuran ---------- No Effect
Toluene ---------- No Effect
Tomato Pulp & Juice ---------- Minor Effect
Trichloroethane ---------- No Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Tricresyl Phosphate ---------- Moderate Effect
Triethanolamine ---------- **Severe Effect**
Turbine Oil ---------- No Effect
Turpentine ---------- No Effect
Urine ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vinegar ---------- Minor Effect

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Water Acid, Mine ---------- **Severe Effect**
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- **Severe Effect**
White Water (Paper Mill) ---------- Minor Effect
Xylene ---------- No Effect
Zinc Chloride ---------- Moderate Effect
Zinc Hydrosulfite ---------- Moderate Effect
Zinc Sulfate ---------- Moderate Effect

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POLYCARBONATE (LEXAN)

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetamide	**Severe Effect**
Acetic Acid, 30%	Minor Effect
Acetic Acid, 50%	Minor Effect
Acetone	**Severe Effect**
Adipic Acid	No Effect
Alcohol, Methyl	Minor Effect
Allyl Alcohol	**Severe Effect**
Aluminum Hydroxide	**Severe Effect**
Aluminum Salts	No Effect
Ammonium Acetate	No Effect
Ammonium Hydroxide	**Severe Effect**
Ammonium Hydroxide, 3 Molar	**Severe Effect**
Ammonium Hydroxide, Concentrated	**Severe Effect**
Ammonium Oxalate, 5% Sol.	No Effect
Ammonium Salts	Minor Effect
Amyl Acetate	**Severe Effect**
Amyl Chloride	**Severe Effect**
Aniline	Minor Effect
Benzaldehyde	**Severe Effect**
Benzoic Acid	Minor Effect
Benzyl Acetate	**Severe Effect**
Benzyl Alcohol	Minor Effect
Bromobenzene	**Severe Effect**
Butadiene	**Severe Effect**
Butanol	Minor Effect
Butyl Acetate	**Severe Effect**
Butyl Acrylate	No Effect
Butyl Alcohol	No Effect
Butyric Acid	**Severe Effect**
Calcium Hydroxide, 10% (Boiling)	No Effect
Calcium Hypochlorite	**Severe Effect**

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Carbon Disulfide ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- Minor Effect
Cellosolve Acetate ---------- **Severe Effect**
Chlorine, Dry ---------- Minor Effect
Chlorine, Wet ---------- Minor Effect
Chloroacetic Acid ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- Minor Effect
Cinnamon Oil ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Creosols ---------- **Severe Effect**
Cyclohexane ---------- Minor Effect
Decalin ---------- **Severe Effect**
Diemethyl Formamide ---------- **Severe Effect**
Diethyl Benzene ---------- **Severe Effect**
Diethyl Ether ---------- **Severe Effect**
Diethyl Ether ---------- Minor Effect
Diethylene Glycol ---------- Minor Effect
Ethers ---------- **Severe Effect**
Ethyl Alcohol ---------- Minor Effect
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzoate ---------- **Severe Effect**
Ethyl Butyrate ---------- **Severe Effect**
Ethyl Chloride (Wet) ---------- **Severe Effect**
Ethylene Chloride ---------- **Severe Effect**
Ethylene Glycol ---------- Minor Effect
Ethylene Glycol Monomethyl Ether ---------- **Severe Effect**
Ethylene Oxide ---------- **Severe Effect**
Fluorine (Anhydrous) ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- Minor Effect

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Freon 12 ---------- No Effect
Fuel Oil ---------- Minor Effect
Gasoline (Meter) ---------- Minor Effect
Gasoline (Sour) ---------- Minor Effect
Glacial Acetic Acid ---------- **Severe Effect**
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Heptane ---------- Minor Effect
Hexane ---------- **Severe Effect**
Hydrochloric Acid ---------- Minor Effect
Hydrocloric Acid 3 Molar ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- **Severe Effect**
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Isobutyl Alcohol ---------- Minor Effect
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- No Effect
Isopropyl Benzene ---------- **Severe Effect**
Kerosene ---------- **Severe Effect**
Lactic Acid 10% Solution (Boiling) ---------- Minor Effect
Lactic Acid, 5% Solution ---------- Minor Effect
Methanol (See Alcohol Methyl) ---------- Minor Effect
Methyl Alcohol ---------- Minor Effect
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Mineral Oils ---------- Minor Effect
Nitric Acid, 10% ---------- Minor Effect
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Perchloric Acid ---------- **Severe Effect**
Perchloroethylene ---------- **Severe Effect**
Phenol ---------- Minor Effect

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Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phosphoric Acid, 1% Solution ---------- Minor Effect
Phosphoric Acid, 10% ---------- Minor Effect
Phosphoric Acid, 5% Solution ---------- Minor Effect
Phosphoric Acid, 50% ---------- Minor Effect
Phosphoric Acid, 85% Solution ---------- Minor Effect
Pine Oil ---------- Minor Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 70% Solution ---------- **Severe Effect**
Propylene Glycol ---------- Minor Effect
Propylene Oxide ---------- Minor Effect
Resorcinel ---------- Minor Effect
Salicylic Acid ---------- Minor Effect
Silicone Greases ---------- No Effect
Silver Nitrate ---------- No Effect
Sodium Acetate ---------- Minor Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 20% Solution (Hot) --------- **Severe Effect**
Sodium Hydroxide, 3 Molar ---------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- **Severe Effect**
Sodium Hydroxide, 70% (Cold) ---------- **Severe Effect**
Sodium Hydroxide, 80% Solution (Hot) --------- **Severe Effect**
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- Minor Effect
Sodium Hypochlorite, 5% ---------- Minor Effect
Sulfur Dioxide, Dry ---------- Minor Effect
Sulfur Dioxide, Wet ---------- Minor Effect
Sulfuric Acid, 85% ---------- **Severe Effect**
Sulphuric Acid, 10% Solution ---------- No Effect
Tartaric Acid ---------- Minor Effect
Thionyl Chloride ---------- **Severe Effect**
Toluol ---------- Minor Effect
Triethylene Glycol ---------- Minor Effect
Turpentine ---------- **Severe Effect**

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Urea ---------- **Severe Effect**

Xylene ---------- **Severe Effect**

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POLYETHYLENE

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Moderate Effect
Acetate Solvents	Minor Effect
Acetic Acid	Moderate Effect
Acetic Acid, 5%	No Effect
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	No Effect
Acetone	**Severe Effect**
Acetyl Chloride	**Severe Effect**
Alcohol	Moderate Effect
Alcohol, Amyl	**Severe Effect**
Alcohol, Benzyl	**Severe Effect**
Alcohol, Butyl	No Effect
Alcohol, Ethyl	**Severe Effect**
Alcohol, Methyl	**Severe Effect**
Alum	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	Minor Effect
Aluminum Fluoride	Minor Effect
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 100%	Minor Effect
Aluminum Sulfate	Minor Effect
Alums	No Effect
AMERSEP MP-7	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonia, Liquids	**Severe Effect**
Ammonium Carbonate	No Effect
Ammonium Chloride	No Effect
Ammonium Dihydrogen Phosphate	No Effect
Ammonium Hydroxide	No Effect
Ammonium Nitrate	No Effect
Ammonium Phosphate	No Effect
Ammonium Sulfate	No Effect

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Amyl Acetate ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Antimony Trichloride ---------- No Effect
Aqua Ammonia ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- Moderate Effect
Arsenic Acid ---------- No Effect
Barium Chloride ---------- No Effect
Barium Cyanide ---------- Minor Effect
Barium Fluoride ---------- **Severe Effect**
Barium Nitrate ---------- Minor Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfide ---------- Minor Effect
Beer ---------- Minor Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- **Severe Effect**
Benzoic Acid ---------- Minor Effect
Black Liquor ---------- No Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Borax ---------- Minor Effect
Boric Acid ---------- Minor Effect
Bromine, Liquid ---------- **Severe Effect**
Butane ---------- Moderate Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Alcohol ---------- No Effect
Calcium Bisulfide ---------- Minor Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide ---------- Minor Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Sulfate ---------- Minor Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Disulfide ---------- **Severe Effect**

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Carbon Monoxide ---------- Minor Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbonic Acid ---------- Minor Effect
Caustic Soda ---------- Moderate Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorinated Solvents ---------- Moderate Effect
Chlorinated Water, Saturate ---------- Minor Effect
Chlorine ---------- **Severe Effect**
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine Water ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Liquid, Anhydrous ---------- No Effect
Chloroacetic Acid ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chromic Acid ---------- Moderate Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- No Effect
Cider (Apple Juice) ---------- Minor Effect
Citric Acid ---------- No Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- Minor Effect
Copper Fluoborate ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- Minor Effect
Corn Oil ---------- No Effect
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- Moderate Effect
Crude Oil ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Cycolic Acid ---------- Minor Effect
Detergent Solutions ---------- Moderate Effect

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Dichlorethane ---------- **Severe Effect**
Diethylene Glycol ---------- Minor Effect
Disodium Phosphate ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Cellosolve ---------- Minor Effect
Ethyl Chloride ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- **Severe Effect**
Fatty Acids ---------- Moderate Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- Minor Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- Moderate Effect
Fluboric Acid ---------- Minor Effect
Fluorine ---------- **Severe Effect**
Fluorine Gas (wet) ---------- **Severe Effect**
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- Moderate Effect
Formic Acid ---------- No Effect
Freon ---------- Minor Effect
Freon 11 ---------- Moderate Effect
Freon 12 ---------- Moderate Effect
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Gasoline (Petrol) ---------- **Severe Effect**
Gasoline, Refined ---------- **Severe Effect**
Glycerine or Glycerol ---------- **Severe Effect**
Grape Juice ---------- Minor Effect
Heptane ---------- **Severe Effect**
Hydrazine ---------- No Effect

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Hydrobomic Acid, 20% ---------- Moderate Effect
Hydrobromic Acid ---------- Minor Effect
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid, 100% ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid ---------- Minor Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- Moderate Effect
Hydrofluoric Acid, 50% ---------- No Effect
Hydrofluoric Acid, 75% ---------- Moderate Effect
Hydrofluosilicic Acid ---------- No Effect
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 50% ---------- Moderate Effect
Hydrogen Sulfide ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- Minor Effect
Ink ---------- Minor Effect
Iodine ---------- **Severe Effect**
Kerosene ---------- **Severe Effect**
Ketones ---------- **Severe Effect**
Lacquer Solvents ---------- Minor Effect
Lactic Acid ---------- Minor Effect
Lactic Acid, 25% ---------- No Effect
Latex ---------- Minor Effect
Lead Acetate ---------- Minor Effect
Lubricating Oils ---------- **Severe Effect**
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Hydorxide ---------- Minor Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Sulfate ---------- Minor Effect
Magnesium Sulfide ---------- No Effect

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Manganese Chloride ---------- No Effect
Manganese Sulfate ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- Minor Effect
Mercuric Cyanide ---------- Minor Effect
Mercuric Sulfate ---------- No Effect
Mercury ---------- Minor Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Chloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- Minor Effect
Mineral Oils ---------- No Effect
Mixed Acids ---------- No Effect
Molasses ---------- Minor Effect
Mustard ---------- No Effect
Naptha ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Nickel Chloride ---------- Minor Effect
Nickel Sulfate ---------- Minor Effect
Nitric Acid ---------- Minor Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- Moderate Effect
Nitric Acid, 20% ---------- Minor Effect
Nitric Acid, 50% ---------- Moderate Effect
Nitric Acid, 68% ---------- No Effect
Nitric Acid, Anhydrous ---------- **Severe Effect**
Nitric Oxide ---------- Minor Effect
Nitrobenzene ---------- **Severe Effect**
Oil - No. 1 ASTM ---------- **Severe Effect**
Oil - No. 3 ASTM ---------- **Severe Effect**
Oleic Acid ---------- **Severe Effect**
Oleum ---------- **Severe Effect**
Olive Oil ---------- **Severe Effect**
Oxalic Acid ---------- No Effect
Perchloric Acid, 10% ---------- No Effect
Perchloric Acid, 70% ---------- No Effect

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Petroleum Oils (Sour) ---------- **Severe Effect**
Phenol ---------- **Severe Effect**
Phenol (Carbolic Acid) ---------- **Severe Effect**
Phosphoric Acid ---------- No Effect
Phosphoric Acid (Crude) ---------- Moderate Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Anhydride (Molten) ---------- **Severe Effect**
Photographic Developers ---------- No Effect
Photographic Solutions ---------- Moderate Effect
Picric Acid ---------- No Effect
Plating Solutions ---------- No Effect
Potash ---------- Minor Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bromide ---------- Minor Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- Minor Effect
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- Minor Effect
Potassium Dichromate ---------- Minor Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 50% ---------- Minor Effect
Potassium Nitrate ---------- Minor Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Sulfate ---------- Minor Effect
Propylene Glycol ---------- Minor Effect
Pyridine ---------- Moderate Effect
Sea Water ---------- Minor Effect
Silicone Oils ---------- Minor Effect
Silver Nitrate ---------- Minor Effect
Soaps ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Bicarbonate ---------- No Effect

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Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- Minor Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect
Sodium Cyanide ---------- Minor Effect
Sodium Fluoride ---------- Moderate Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% ---------- Minor Effect
Sodium Hydroxide, 50% ---------- Moderate Effect
Sodium Hydroxide, 80% ---------- Moderate Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- Minor Effect
Sodium Iodide ---------- Minor Effect
Sodium Metaphosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- No Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect
Sodium Sulfite ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Stannic Chloride ---------- Minor Effect
Stannous Chloride ---------- No Effect
Starch ---------- Minor Effect
Stearic Acid ---------- Minor Effect
Steric Acid ---------- Moderate Effect
Stoddard Solvent ---------- **Severe Effect**
Sulfur Chloride ---------- No Effect
Sulfur Dioxide ---------- Moderate Effect
Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Dioxide, Wet ---------- No Effect

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Sulfur Trioxide ---------- No Effect
Sulfuric Acid ---------- Moderate Effect
Sulfuric Acid, 10% ---------- Minor Effect
Sulfuric Acid, 75% ---------- No Effect
Sulfuric Acid, 98.5% ---------- No Effect
Sulfurous Acid ---------- Minor Effect
Tallow ---------- Moderate Effect
Tannic Acid ---------- Minor Effect
Tanning Liquors ---------- No Effect
Tartaric Acid ---------- Minor Effect
Tetrahydrofuran ---------- **Severe Effect**
THIO-RED ---------- No Effect
Toluene ---------- **Severe Effect**
Tributyl Phosphate ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Turpentine ---------- **Severe Effect**
Urine ---------- Minor Effect
Vegetable Oils ---------- **Severe Effect**
Vinegar ---------- Minor Effect
Water Acid, Mine ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- **Severe Effect**
Water, Glycol ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- **Severe Effect**
Whiskey ---------- Minor Effect
Wines ---------- **Severe Effect**
Xylene ---------- **Severe Effect**
Zinc Chloride ---------- Minor Effect
Zinc Sulfate ---------- Minor Effect

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POLYETHYLENE HIGH DENSITY

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetamide	No Effect
Acetic Acid 100% Boiling	Minor Effect
Acetic Acid, 100% Solution	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 50% Boiling	No Effect
Acetic Acid, 80%	No Effect
Acetic Acid, 80% Boiling	Minor Effect
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	No Effect
Acetone	No Effect
Adipic Acid	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Propyl	Minor Effect
Alkaline Solutions	No Effect
Alkazene	Minor Effect
Allyl Alcohol	No Effect
Aluminum Chloride	Minor Effect
Aluminum Hydroxide	No Effect
Aluminum Salts	No Effect
Aluminum Sulfate	No Effect
AMERSEP MP-7	No Effect
Ammonia, Liquids	**Severe Effect**
Ammonium Acetate	No Effect
Ammonium Bicarbonate	No Effect
Ammonium Carbonate	No Effect
Ammonium Chloride, 1%	No Effect
Ammonium Chloride, 10% Solution Boiling	No Effect
Ammonium Chloride, 28% Solution Boiling	No Effect

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Ammonium Chloride, 50% Solution Boiling ------ No Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Salts ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Amyl Acetate ---------- Minor Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- Minor Effect
Aniline Dyes ---------- Minor Effect
Animal Fats & Oils ---------- No Effect
Argon ---------- No Effect
Arsenic Acid ---------- No Effect
Arsenious Acid ---------- No Effect
Asphalt ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- Minor Effect
Beet Sugar Liquors ---------- No Effect

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Benzaldehyde ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- No Effect
Benzol ---------- **Severe Effect**
Benzyl Acetate ---------- Minor Effect
Benzyl Alcohol ---------- **Severe Effect**
Benzyl Chloride ---------- No Effect
Blast Furnace Gas ---------- No Effect
Blood (Meat Juices-Cold) ---------- No Effect
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Brine ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Pentafluoride ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- **Severe Effect**
Butane ---------- **Severe Effect**
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- Minor Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Stearate ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Calcium Bisulfite ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect

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Calcium Hypochlorite ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Dioxide, Wet ---------- No Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonate of Soda ---------- Minor Effect
Catsup ---------- No Effect
Cellosolve Acetate ---------- Minor Effect
China Wood Oil (Tung Oil) ---------- Minor Effect
Chloracetic Acid ---------- Minor Effect
Chlorate of Lime ---------- No Effect
Chlorinated Solvents, Dry ---------- Minor Effect
Chlorinated Solvents, Wet ---------- Minor Effect
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- Minor Effect
Chlorine, Dry ---------- Minor Effect
Chlorine, Wet ---------- Minor Effect
Chloroacetic Acid ---------- No Effect
Chlorobenzene ---------- **Severe Effect**
Chlorobromomethane ---------- No Effect
Chloroform ---------- Minor Effect
Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Coconut Oil ---------- No Effect
Coffee ---------- No Effect
Coke Oven Gas ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect

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Copper Cyanide ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Crude Oil ---------- No Effect
Cumeme ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- **Severe Effect**
D.D.T. ---------- No Effect
Decalin ---------- Minor Effect
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- No Effect
Diacetone Alcohol ---------- Minor Effect
Dibutyl Phthalate ---------- **Severe Effect**
Diemethyl Formamide ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethyl Benzene ---------- **Severe Effect**
Diethyl Ether ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Drinking Water ---------- No Effect
DTE Light Oil ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- No Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Benzene ---------- Minor Effect

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Ethyl Benzoate ---------- Minor Effect
Ethyl Butyrate ---------- Minor Effect
Ethyl Cellose ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethyl Silicate ---------- Minor Effect
Ethylene Chloride ---------- Minor Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Oxide ---------- Minor Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fish Liver Oils ---------- No Effect
Fluorine (Anhydrous) ---------- Minor Effect
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- No Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- Minor Effect
Fumaric Acid ---------- Minor Effect
Furfural ---------- **Severe Effect**
Gallic Acid ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- No Effect
Gelatin ---------- No Effect
Glacial Acetic Acid ---------- No Effect
Glauber's Salt ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Grape Juice ---------- No Effect
Green Sulfate Liquor ---------- No Effect

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Heptane ---------- Minor Effect
Hexane ---------- Minor Effect
Hexyl Alcohol ---------- Minor Effect
Hydrochloric Acid ---------- No Effect
Hydrocloric Acid 3 Molar ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- No Effect
Hydrogen ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine Pentafluoride ---------- **Severe Effect**
Isobutyl Alcohol ---------- No Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Benzene ---------- **Severe Effect**
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- Minor Effect
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid 10% Solution (Boiling) ---------- No Effect
Lactic Acid, 5% Solution ---------- No Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Lead Acetate ---------- No Effect
Light Grease ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- No Effect

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Lime Bleach ---------- No Effect
Lime Slurries ---------- No Effect
Lime Sulfur ---------- No Effect
Linoleic Acid ---------- No Effect
Linseed Oil ---------- No Effect
Lithium Chloride ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- No Effect
Mayonnaise ---------- **Severe Effect**
Mercuric Chloride ---------- No Effect
Mercury ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Cyclopentane ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Ethyl Ketone Peroxide ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Mine Water ---------- No Effect
Mineral Oils ---------- No Effect
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monomethyl Hydrazine ---------- No Effect
Monomethylaniline ---------- No Effect
Mustard ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect
N-Pentane ---------- No Effect

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Naptha ---------- No Effect
Neon ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Sulfate ---------- No Effect
Niter Coke ---------- No Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- Minor Effect
Nitrobenzene ---------- **Severe Effect**
Nitroethane ---------- No Effect
Nitrogen Tetroxide ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Oils, Crude ---------- **Severe Effect**
Oleum Spirits ---------- No Effect
Olive Oil ---------- No Effect
Ozone (Wet) ---------- No Effect
P-Cymene ---------- No Effect
Palm Oil ---------- No Effect
Paraffins (Paraffin Oil) ---------- Minor Effect
Peanut Oil ---------- No Effect
Pentane, 2 Methyl ---------- No Effect
Pentane, 2-4, Dimethyl ---------- No Effect
Pentane, 3-Methyl ---------- No Effect
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- **Severe Effect**
Petroleum Ether ---------- **Severe Effect**

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Phenol ---------- Minor Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phorone ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Acid, 85% Solution ---------- No Effect
Pine Oil ---------- Minor Effect
Pinene ---------- No Effect
Plating Solution, Chrome ---------- No Effect
Pneumatic Service ---------- No Effect
Potassium Acetate ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Ferricyanide ---------- No Effect
Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- **Severe Effect**
Propane ---------- Minor Effect
Propane (Liquefied) ---------- Minor Effect

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Propane Propionitrile ---------- No Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- No Effect
Pyranol, Transformer Oil ---------- Minor Effect
Pyridine ---------- **Severe Effect**
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Minor Effect
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- No Effect
Rape-Seed Oil ---------- **Severe Effect**
Resins and Rosins ---------- **Severe Effect**
Resorcinel ---------- No Effect
RJ-1 (Mil-F-25558) ---------- No Effect
Rosin ---------- **Severe Effect**
RP-1 (Mil-R-25576) ---------- No Effect
Sal Ammoniac ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- **Severe Effect**
Shellac (Bleached) ---------- **Severe Effect**
Shellac (Orange) ---------- **Severe Effect**
Silicate Esters ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Nitrate ---------- No Effect
Soap Solutions ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Bicarbonate ---------- No Effect

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Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Dichromate ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Fluoride, 5% ---------- No Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 3 Molar ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) -------- No Effect
Sodium Hydroxide, 70% (Cold) ---------- No Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Sulfite, 10% Solution @ 150 F --------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect
Soybean Oil ---------- No Effect

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SP-90X ---------- No Effect
Spry ---------- No Effect
SR-10 Fuel ---------- No Effect
SR-6 Fuel ---------- No Effect
Stannic Chloride ---------- No Effect
Stannic Chloride, 50% ---------- No Effect
Stannous Chloride ---------- No Effect
Stanous Chloride, 15% ---------- No Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfite Liquors ---------- No Effect
Sulfur ---------- No Effect
Sulfur (Molten) ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Liquefied Under Pressure ----- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Hexafluoride ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfuric Acid, 85% ---------- Minor Effect
Sulfurous Acid ---------- No Effect
Sulphuric Acid, 5% ---------- No Effect
Sulphuric Acid, Concentrated Solution -------- No Effect
Tannic Acid ---------- No Effect
Tar and Tar Oil ---------- Minor Effect
Tartaric Acid ---------- No Effect
Tetraethyl Lead ---------- Minor Effect
THIO-RED ---------- No Effect
Thionyl Chloride ---------- **Severe Effect**
Titanium Tetrachloride ---------- No Effect
Toluene ---------- **Severe Effect**

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Toluol ---------- **Severe Effect**
Triaryl Phosphate ---------- No Effect
Tributoxyl Ethyl Phosphate ---------- No Effect
Tributyl Mercaptan ---------- No Effect
Tributyl Phosphate ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Triethanolamine ---------- No Effect
Triethylene Glycol ---------- No Effect
Trisodium Phosphate ---------- No Effect
Tung Oil ---------- No Effect
Turpentine ---------- **Severe Effect**
Urea ---------- No Effect
Varnish ---------- No Effect
Vegetable Oils ---------- **Severe Effect**
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- No Effect
Vinyl Acetate ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Whiskey ---------- No Effect
White Oil ---------- No Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- Minor Effect
Xylidenes, Mixed, Aromatic ---------- No Effect
Zinc Acetate ---------- No Effect
Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- No Effect

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Zinc Chloride, 5% Solution ---------- No Effect
Zinc Salts ---------- No Effect
Zinc Sulfate ---------- No Effect
Zinc Sulfate, 5% Solution ---------- No Effect
Zinc Sulfate, Saturated Solution ---------- No Effect

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POLYETHYLENE LOW DENSITY

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetamide	No Effect
Acetic Acid 100% Boiling	Minor Effect
Acetic Acid, 100% Solution	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 50% Boiling	No Effect
Acetic Acid, 80%	No Effect
Acetic Acid, 80% Boiling	Minor Effect
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	No Effect
Acetone	Minor Effect
Adipic Acid	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Methyl	No Effect
Alkaline Solutions	No Effect
Alkazene	Minor Effect
Allyl Alcohol	No Effect
Aluminum Chloride	Minor Effect
Aluminum Hydroxide	No Effect
Aluminum Salts	No Effect
Aluminum Sulfate	No Effect
AMERSEP MP-7	No Effect
Ammonia, Liquids	**Severe Effect**
Ammonium Acetate	No Effect
Ammonium Bicarbonate	No Effect
Ammonium Carbonate	No Effect
Ammonium Chloride, 1%	No Effect
Ammonium Chloride, 10% Solution Boiling	No Effect
Ammonium Chloride, 28% Solution Boiling	No Effect
Ammonium Chloride, 50% Solution Boiling	No Effect

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Ammonium Hydroxide ---------- Minor Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Salts ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Amyl Acetate ---------- Minor Effect
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- Minor Effect
Aniline Dyes ---------- Minor Effect
Animal Fats & Oils ---------- No Effect
Argon ---------- No Effect
Arsenic Acid ---------- No Effect
Arsenious Acid ---------- No Effect
Asphalt ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- Minor Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- Minor Effect

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Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- No Effect
Benzol ---------- **Severe Effect**
Benzyl Acetate ---------- Minor Effect
Benzyl Alcohol ---------- **Severe Effect**
Benzyl Chloride ---------- No Effect
Blast Furnace Gas ---------- No Effect
Blood (Meat Juices-Cold) ---------- No Effect
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Brine ---------- No Effect
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Pentafluoride ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- **Severe Effect**
Butane ---------- **Severe Effect**
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- Minor Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Stearate ---------- No Effect
Butyric Acid ---------- **Severe Effect**
Calcium Bisulfite ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- No Effect

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Carbon Bisulfide ---------- No Effect
Carbon Dioxide, Dry ---------- No Effect
Carbon Dioxide, Wet ---------- No Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonate of Soda ---------- Minor Effect
Catsup ---------- No Effect
Cellosolve Acetate ---------- Minor Effect
China Wood Oil (Tung Oil) ---------- Minor Effect
Chloracetic Acid ---------- Minor Effect
Chlorate of Lime ---------- No Effect
Chlorinated Solvents, Dry ---------- Minor Effect
Chlorinated Solvents, Wet ---------- Minor Effect
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- Minor Effect
Chlorine, Dry ---------- Minor Effect
Chlorine, Wet ---------- Minor Effect
Chloroacetic Acid ---------- No Effect
Chlorobenzene ---------- **Severe Effect**
Chlorobromomethane ---------- No Effect
Chloroform ---------- Minor Effect
Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- **Severe Effect**
Circo Light Process Oil ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Coconut Oil ---------- No Effect
Coffee ---------- No Effect
Coke Oven Gas ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Cyanide ---------- No Effect

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Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Crude Oil ---------- No Effect
Cumeme ---------- No Effect
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- **Severe Effect**
D.D.T. ---------- No Effect
Decalin ---------- Minor Effect
Detergent Solutions ---------- No Effect
Developing Fluids & Solutions ---------- No Effect
Diacetone Alcohol ---------- Minor Effect
Dibutyl Phthalate ---------- **Severe Effect**
Diemethyl Formamide ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethyl Benzene ---------- **Severe Effect**
Diethyl Ether ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Drinking Water ---------- No Effect
DTE Light Oil ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- No Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Alcohol ---------- Minor Effect
Ethyl Benzene ---------- Minor Effect
Ethyl Benzoate ---------- Minor Effect

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Ethyl Butyrate ---------- **Severe Effect**
Ethyl Cellose ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethyl Silicate ---------- Minor Effect
Ethylene Chloride ---------- Minor Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Oxide ---------- Minor Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fish Liver Oils ---------- No Effect
Fluorine (Anhydrous) ---------- Minor Effect
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- No Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- Minor Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- Minor Effect
Fumaric Acid ---------- Minor Effect
Furfural ---------- **Severe Effect**
Gallic Acid ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- No Effect
Gelatin ---------- No Effect
Glacial Acetic Acid ---------- Minor Effect
Glauber's Salt ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Grape Juice ---------- No Effect
Green Sulfate Liquor ---------- No Effect
Heptane ---------- Minor Effect

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Hexane ---------- **Severe Effect**
Hexyl Alcohol ---------- Minor Effect
Hydrochloric Acid ---------- No Effect
Hydrocloric Acid 3 Molar ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- No Effect
Hydrogen ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 90% ---------- Minor Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine Pentafluoride ---------- **Severe Effect**
Isobutyl Alcohol ---------- No Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Benzene ---------- **Severe Effect**
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect
Kerosene ---------- **Severe Effect**
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- No Effect
Lacquers ---------- No Effect
Lactic Acid 10% Solution (Boiling) ---------- No Effect
Lactic Acid, 5% Solution ---------- No Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Lead Acetate ---------- No Effect
Light Grease ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- No Effect
Lime Bleach ---------- No Effect

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Lime Slurries ---------- No Effect
Lime Sulfur ---------- No Effect
Linoleic Acid ---------- No Effect
Linseed Oil ---------- No Effect
Lithium Chloride ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- No Effect
Mayonnaise ---------- **Severe Effect**
Mercuric Chloride ---------- No Effect
Mercury ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Cyclopentane ---------- No Effect
Methyl Ethyl Ketone ---------- Minor Effect
Methyl Ethyl Ketone Peroxide ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Mine Water ---------- No Effect
Mineral Oils ---------- Minor Effect
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monomethyl Hydrazine ---------- No Effect
Monomethylaniline ---------- No Effect
Mustard ---------- No Effect
N-Butyl Ether ---------- No Effect
N-Hexaldehyde ---------- No Effect
N-Pentane ---------- No Effect
Naptha ---------- No Effect

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Neon ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Sulfate ---------- No Effect
Niter Coke ---------- No Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitroethane ---------- No Effect
Nitrogen Tetroxide ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Oils, Crude ---------- **Severe Effect**
Oleum Spirits ---------- No Effect
Olive Oil ---------- No Effect
Ozone (Wet) ---------- No Effect
P-Cymene ---------- No Effect
Palm Oil ---------- No Effect
Paraffins (Paraffin Oil) ---------- Minor Effect
Peanut Oil ---------- No Effect
Pentane, 2 Methyl ---------- No Effect
Pentane, 2-4, Dimethyl ---------- No Effect
Pentane, 3-Methyl ---------- No Effect
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- **Severe Effect**
Petroleum Ether ---------- **Severe Effect**
Phenol ---------- Minor Effect

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Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phorone ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Acid, 85% Solution ---------- No Effect
Pine Oil ---------- **Severe Effect**
Pinene ---------- No Effect
Plating Solution, Chrome ---------- No Effect
Pneumatic Service ---------- No Effect
Potassium Acetate ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Ferricyanide ---------- No Effect
Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- **Severe Effect**
Propane ---------- **Severe Effect**
Propane (Liquefied) ---------- Minor Effect
Propane Propionitrile ---------- No Effect

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Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- Minor Effect
Pyranol, Transformer Oil ---------- Minor Effect
Pyridine ---------- **Severe Effect**
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- Minor Effect
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- No Effect
Rape-Seed Oil ---------- **Severe Effect**
Resins and Rosins ---------- **Severe Effect**
Resorcinel ---------- No Effect
RJ-1 (Mil-F-25558) ---------- No Effect
Rosin ---------- **Severe Effect**
RP-1 (Mil-R-25576) ---------- No Effect
Sal Ammoniac ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- **Severe Effect**
Shellac (Bleached) ---------- **Severe Effect**
Shellac (Orange) ---------- **Severe Effect**
Silicate Esters ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Nitrate ---------- No Effect
Soap Solutions ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect

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Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Dichromate ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Fluoride, 5% ---------- No Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 3 Molar ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) -------- No Effect
Sodium Hydroxide, 70% (Cold) ---------- No Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Sulfite, 10% Solution @ 150 F --------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect
Soybean Oil ---------- No Effect
Spry ---------- No Effect

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SR-10 Fuel ---------- No Effect
SR-6 Fuel ---------- No Effect
Stannic Chloride ---------- No Effect
Stannic Chloride, 50% ---------- No Effect
Stannous Chloride ---------- No Effect
Stanous Chloride, 15% ---------- No Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfite Liquors ---------- No Effect
Sulfur ---------- No Effect
Sulfur (Molten) ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Liquefied Under Pressure ----- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Hexafluoride ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfuric Acid, 85% ---------- Minor Effect
Sulfurous Acid ---------- No Effect
Sulphuric Acid, 10% Solution ---------- No Effect
Sulphuric Acid, 5% ---------- No Effect
Sulphuric Acid, Concentrated Solution -------- No Effect
Tannic Acid ---------- No Effect
Tar and Tar Oil ---------- Minor Effect
Tartaric Acid ---------- No Effect
Tetraethyl Lead ---------- Minor Effect
THIO-RED ---------- No Effect
Thionyl Chloride ---------- **Severe Effect**
Titanium Tetrachloride ---------- No Effect
Toluene ---------- **Severe Effect**
Toluol ---------- **Severe Effect**

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Triaryl Phosphate ---------- No Effect
Tributoxyl Ethyl Phosphate ---------- No Effect
Tributyl Mercaptan ---------- No Effect
Tributyl Phosphate ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Triethanolamine ---------- No Effect
Triethylene Glycol ---------- No Effect
Trisodium Phosphate ---------- No Effect
Tung Oil ---------- No Effect
Turpentine ---------- **Severe Effect**
Urea ---------- No Effect
Varnish ---------- No Effect
Vegetable Oils ---------- **Severe Effect**
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- No Effect
Vinyl Acetate ---------- No Effect
Water ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Whiskey ---------- No Effect
White Oil ---------- No Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- Minor Effect
Xylidenes, Mixed, Aromatic ---------- No Effect
Zinc Acetate ---------- No Effect
Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Chloride, 5% Solution ---------- No Effect

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Zinc Salts ---------- No Effect
Zinc Sulfate ---------- No Effect
Zinc Sulfate, 5% Solution ---------- No Effect
Zinc Sulfate, Saturated Solution ---------- No Effect

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POLYPROPYLENE

Chemical Compatibility

CHEMICAL	EFFECT
1-Chloronaphthalene	**Severe Effect**
Acetaldehyde	Moderate Effect
Acetamide	No Effect
Acetate Solvents	**Severe Effect**
Acetic Acid	Minor Effect
Acetic Acid, 20%	Moderate Effect
Acetic Acid, 30%	Moderate Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 50%	Moderate Effect
Acetic Acid, 80%	Minor Effect
Acetic Acid, 95%	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Acetonitrile (Methyl Cyanide)	Minor Effect
Acetophenone	No Effect
Acetylene (Ethyne)	**Severe Effect**
Acrylonitrile	Minor Effect
Adipic Acid	No Effect
Adipic Acid	No Effect
Alcohol	**Severe Effect**
Alcohol, Amyl	Minor Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	Minor Effect
Alcohol, Diacetone	**Severe Effect**
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Propyl	No Effect
Allyl Alcohol	No Effect
Allyl Chloride	No Effect

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Alum ---------- No Effect
Aluminum Ammonium Sulfate ---------- No Effect
Aluminum Chloride ---------- No Effect
Aluminum Chloride, 20% ---------- No Effect
Aluminum Fluoride ---------- No Effect
Aluminum Hydroxide ---------- No Effect
Aluminum Nitrate ---------- No Effect
Aluminum Potassium Sulfate ---------- No Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ No Effect
Aluminum Salts ---------- No Effect
Aluminum Sulfate ---------- No Effect
Alums ---------- No Effect
AMERSEP MP-7 ---------- No Effect
Amines ---------- Minor Effect
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Aqueous 30% ---------- No Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Acetate ---------- No Effect
Ammonium Bifluoride, 10% ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Fluoride ---------- No Effect
Ammonium Hydroxide ---------- Minor Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- Minor Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Salts ---------- No Effect
Ammonium Sulfate ---------- No Effect

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Ammonium Sulfite ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- Moderate Effect
Aniline Hydrochloride ---------- **Severe Effect**
Aniline Oil ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Regia ---------- Moderate Effect
Aroclor ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride Dihydrate ---------- No Effect
Barium Cyanide ---------- **Severe Effect**
Barium Fluoride ---------- **Severe Effect**
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Beer ---------- **Severe Effect**
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- Minor Effect
Benzene ---------- **Severe Effect**
Benzene Sulfonic Acid ---------- Minor Effect
Benzoic Acid ---------- Moderate Effect
Benzol ---------- **Severe Effect**
Benzyl Acetate ---------- Minor Effect
Benzyl Alcohol ---------- **Severe Effect**
Benzyl Chloride ---------- **Severe Effect**
Bismuth Carbonate ---------- No Effect
Black Liquor ---------- No Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect

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Brake Fluid ---------- **Severe Effect**
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Brine ---------- No Effect
Bromic Acid ---------- No Effect
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- Moderate Effect
Bromine, Anhydrous ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Butadiene ---------- **Severe Effect**
Butane ---------- Moderate Effect
Butanol ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acrylate ---------- Minor Effect
Butyl Alcohol ---------- No Effect
Butyl Amine ---------- Minor Effect
Butyl Chloride ---------- **Severe Effect**
Butyl Ether ---------- **Severe Effect**
Butylene ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hydroxide, 30% Boiling ---------- No Effect

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Calcium Hypochlorite ---------- No Effect
Calcium Hypochlorite, 5% 70 F ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfide ---------- No Effect
Calgon ---------- No Effect
Cane Juice ---------- **Severe Effect**
Cane Sugar Liquors ---------- No Effect
Carbolic Acid ---------- Moderate Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Dioxide ---------- No Effect
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonated Beverages ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Caustic Liquid ---------- No Effect
Caustic Soda ---------- Moderate Effect
Cellosolve ---------- No Effect
Cellosolve Acetate ---------- Minor Effect
Chloracetic Acid ---------- **Severe Effect**
Chloral Hydrate ---------- **Severe Effect**
Chlorinated Water, Saturate ---------- Minor Effect
Chlorine ---------- **Severe Effect**
Chlorine Trifluoride ---------- **Severe Effect**
Chlorine Water ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- No Effect
Chloroacetone ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**

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Chlorobromomethane ---------- **Severe Effect**
Chlorobutadiene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- Moderate Effect
Chlorox ---------- Minor Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chromic Acid ---------- Minor Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect
Chromium Plating, Barrel Chrome Bath 95 F ---- No Effect
Chromium Plating, Black Chrome Bath 115 F ---- No Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F No Effect
Chromium Plating, Fluoride Bath 130 F -------- No Effect
Chromium Plating, Fluosilicate Bath 95 F ----- No Effect
Cinnamon Oil ---------- **Severe Effect**
Citric Acid ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Citric Acid, Hot Conc. ---------- No Effect
Citric Oils ---------- No Effect
Clove Oil ---------- Minor Effect
Cobalt Chloride ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoride ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Nitrate Hexahydrate ---------- No Effect
Copper Plating (Acid),

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Copper Fluoborate Bath 120 F ---------- No Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Creosols ---------- **Severe Effect**
Creosote, Coal-Tar ---------- **Severe Effect**
Creosote, Wood-Tar ---------- **Severe Effect**
Cresol ---------- Moderate Effect
Cresylic Acid ---------- **Severe Effect**
Crude Oil ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Cyclohexanol ---------- No Effect
Cyclohexanone ---------- **Severe Effect**
Cycolic Acid ---------- No Effect
Decalin ---------- Minor Effect
Decane ---------- No Effect
Denatured Alcohol ---------- No Effect
Detergent Solutions ---------- Minor Effect
Dextrose ---------- No Effect
Diacetone Alcohol ---------- **Severe Effect**
Diazo Salts ---------- No Effect
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Phthalate ---------- **Severe Effect**
Dibutyl Sebecate ---------- Moderate Effect
Dichloro Isopropyl Ether ---------- **Severe Effect**
Diemethyl Formamide ---------- No Effect
Diesel Fuel ---------- **Severe Effect**
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- Minor Effect
Diethanol Amine ---------- No Effect

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Diethyl Amine ---------- No Effect
Diethyl Benzene ---------- **Severe Effect**
Diethyl Ether ---------- **Severe Effect**
Diethyl Sebacate ---------- No Effect
Diethylamine ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Diglycolic Acid ---------- No Effect
Diisobutylene ---------- No Effect
Dimethylamine ---------- **Severe Effect**
Dioctylphthalate ---------- **Severe Effect**
Dipropylene Glycol ---------- No Effect
Disodium Phosphate ---------- No Effect
Drycleaning Fluids ---------- **Severe Effect**
Epichlorohydrin ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- Moderate Effect
Ethanolamine ---------- **Severe Effect**
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- Moderate Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- Minor Effect
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzoate ---------- Minor Effect
Ethyl Butyrate ---------- **Severe Effect**
Ethyl Cellosolve ---------- Moderate Effect
Ethyl Cellulose ---------- Moderate Effect
Ethyl Chloride ---------- **Severe Effect**
Ethyl Chloride (Wet) ---------- **Severe Effect**
Ethyl Ether ---------- Moderate Effect
Ethyl Pentachlorobenzene ---------- **Severe Effect**
Ethylene Bromide ---------- **Severe Effect**
Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**

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Ethylene Glycol ---------- Moderate Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Oxide ---------- Moderate Effect
Ethylene Trichloride ---------- **Severe Effect**
Fatty Acids ---------- No Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluboric Acid ---------- No Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluorine (Anhydrous) ---------- Minor Effect
Fluorine (Liquid) ---------- **Severe Effect**
Fluorine Gas (wet) ---------- **Severe Effect**
Fluorobenzene ---------- **Severe Effect**
Fluorolube ---------- **Severe Effect**
Fluosilicic Acid ---------- Moderate Effect
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- Minor Effect
Formaldehyde, 40% ---------- No Effect
Formic Acid ---------- No Effect
Formic Acid (Dilute Cold) ---------- Minor Effect
Formic Acid (Dilute Hot) ---------- Minor Effect
Freon ---------- Minor Effect
Freon 11 ---------- Minor Effect
Freon 11 ---------- Minor Effect
Freon 12 ---------- No Effect
Freon 12 ---------- Minor Effect
Freon 12,13,22,114,115 ---------- No Effect
Freon 22 ---------- Minor Effect
Freon T.F. ---------- **Severe Effect**
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- No Effect

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Fuel Oil ---------- Moderate Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- Minor Effect
Furan ---------- Moderate Effect
Furfural ---------- **Severe Effect**
Gallic Acid ---------- No Effect
Gas, Manufactured ---------- No Effect
Gas, Natural ---------- No Effect
Gasoline (Meter) ---------- Minor Effect
Gasoline (Petrol) ---------- **Severe Effect**
Gasoline (Sour) ---------- Minor Effect
Gasoline (Unleaded) ---------- Moderate Effect
Gasoline, Refined ---------- **Severe Effect**
Gelatin ---------- No Effect
Glacial Acetic Acid ---------- Minor Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Glycols ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- No Effect
Green Sulfate Liquor ---------- No Effect
Heptanal ---------- No Effect
Heptane ---------- **Severe Effect**
Hexane ---------- Moderate Effect
Hexanol, Tertiary ---------- No Effect
Honey ---------- No Effect
Hydraulic Oil ---------- **Severe Effect**
Hydraulic Oils (Petroleum) ---------- **Severe Effect**
Hydraulic Oils (Synthetic) ---------- **Severe Effect**
Hydrazine ---------- No Effect
Hydrobomic Acid, 20% ---------- No Effect
Hydrobromic Acid ---------- Minor Effect
Hydrobromic Acid, 20% ---------- No Effect

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Hydrocarbons, Pure ---------- No Effect
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid 20% ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- No Effect
Hydrocloric Acid 3 Molar ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- No Effect
Hydrofluoric Acid, (Conc) ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- No Effect
Hydrofluoric Acid, 50% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- Minor Effect
Hydrofluosilicic Acid ---------- No Effect
Hydrofluosilicic Acid, 20% ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 3% ---------- No Effect
Hydrogen Peroxide, 30% ---------- No Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- Minor Effect
Hydrogen Sulfide ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hypochlorous Acid ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- Minor Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- Moderate Effect
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- No Effect
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- No Effect

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Isobutyl Alcohol ---------- No Effect
Isobutyl Alcohol ---------- No Effect
Isooctane ---------- No Effect
Isopar G ---------- No Effect
Isopropyl Acetate ---------- Minor Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Benzene ---------- **Severe Effect**
Isopropyl Chloride ---------- **Severe Effect**
Isopropyl Ether ---------- **Severe Effect**
Isotane ---------- **Severe Effect**
Jet Fuel (JP3,JP4,JP5) ---------- **Severe Effect**
Jet Fuels (JP1 to JP6) ---------- **Severe Effect**
Kerosene ---------- Moderate Effect
Ketones ---------- **Severe Effect**
Lacquer Solvents ---------- **Severe Effect**
Lacquer Thinners ---------- Minor Effect
Lacquers ---------- No Effect
Lactic Acid ---------- No Effect
Lactic Acid ---------- No Effect
Lactic Acid 10% Solution (Boiling) ---------- Minor Effect
Lactic Acid, 25% ---------- No Effect
Lactic Acid, 5% Solution ---------- Minor Effect
Lard ---------- No Effect
Lard Oil ---------- No Effect
Latex ---------- No Effect
Lauric Acid ---------- No Effect
Lead Acetate ---------- No Effect
Lead Fluoborate Plating ---------- No Effect
Lead Nitrate ---------- No Effect
Lead Sulfamate ---------- No Effect
Lemon Oil ---------- **Severe Effect**
Ligroin ---------- **Severe Effect**
Lime Bleach ---------- Minor Effect
Lime Sulfur ---------- No Effect
Lime, 30% ---------- No Effect
Linoleic Acid ---------- No Effect

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Linseed Oil ---------- No Effect
Liquors ---------- No Effect
Lubricants ---------- No Effect
Lubricating Oils ---------- **Severe Effect**
Lye ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfide ---------- No Effect
Maleic Acid ---------- Moderate Effect
Malic Acid ---------- No Effect
Manganese Chloride ---------- No Effect
Manganese Sulfate ---------- No Effect
Mayonnaise ---------- No Effect
Mercuric Chloride ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercuric Sulfate ---------- No Effect
Mercurous Nitrate ---------- No Effect
Mercury ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- Moderate Effect
Methyl Alcohol ---------- No Effect
Methyl Amine ---------- No Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Dichloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- Moderate Effect
Methyl Isopropyl Ketone ---------- Moderate Effect

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Methylamine ---------- No Effect
Methylene Chloride ---------- **Severe Effect**
Milk ---------- No Effect
Mineral Oils ---------- Moderate Effect
Mixed Acids ---------- **Severe Effect**
Molasses ---------- No Effect
Monochlorobenzene ---------- **Severe Effect**
Monoethanolamine ---------- **Severe Effect**
Mustard ---------- No Effect
N,N-Dimethyl Formamide ---------- No Effect
N,N-Dimethylaniline ---------- **Severe Effect**
n-Hexane ---------- Moderate Effect
N-Methyl Aniline ---------- Moderate Effect
n-Octane ---------- **Severe Effect**
n-Propyl Acetate ---------- Moderate Effect
Naphtha, Petroleum ---------- **Severe Effect**
Naphthalene ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- Minor Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Plating, Electroless 200 F ---------- **Severe Effect**
Nickel Plating, Fluoborate 100-170 F --------- No Effect
Nickel Plating, High Chloride 130-160 F ------ No Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 25% ---------- No Effect
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**

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Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- Moderate Effect
Nitric Oxide ---------- **Severe Effect**
Nitrobenzene ---------- Moderate Effect
Nitroethane ---------- Moderate Effect
Nitrogen Tetroxide ---------- **Severe Effect**
Nitromethane ---------- Moderate Effect
Nitrous Oxide ---------- Moderate Effect
o-Dichlorobenzene ---------- Minor Effect
Octachlorotoluene ---------- **Severe Effect**
Oil - No. 1 ASTM ---------- **Severe Effect**
Oil - No. 3 ASTM ---------- **Severe Effect**
Oils and Fats ---------- No Effect
Oleic Acid ---------- Moderate Effect
Oleum ---------- **Severe Effect**
Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oxalic Acid ---------- No Effect
Ozone ---------- **Severe Effect**
Ozone (Wet) ---------- Minor Effect
Paint Thinner, DUCO ---------- **Severe Effect**
Palmitic Acid ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Peanut Oil ---------- **Severe Effect**
Peppermint Oil ---------- **Severe Effect**
Perchloric Acid ---------- Minor Effect
Perchloric Acid, 10% ---------- Moderate Effect
Perchloric Acid, 70% ---------- Moderate Effect
Perchloroethylene ---------- **Severe Effect**
Phenol ---------- Moderate Effect
Phenol (Carbolic Acid) ---------- Minor Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phenyl Hydrazine ---------- **Severe Effect**
Phosgene, Gas ---------- Moderate Effect
Phosphoric Acid ---------- No Effect

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Phosphoric Acid (Conc) ---------- No Effect
Phosphoric Acid, 1% Solution ---------- Minor Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 20% ---------- No Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 5% Solution ---------- Minor Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Acid, 85% Solution ---------- Minor Effect
Phosphorus Trichloride ---------- Moderate Effect
Photographic Developers ---------- No Effect
Photographic Fixer ---------- No Effect
Photographic Solutions ---------- No Effect
Photographic Solutions ---------- No Effect
Picric Acid ---------- No Effect
Pine Oil ---------- Minor Effect
Plating Solution, Cadmium ---------- No Effect
Plating Solution, Chrome ---------- No Effect
Plating Solution, Lead ---------- No Effect
Plating Solutions ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Potash ---------- No Effect
Potassium Acetate ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Dichromate 40% ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 50% ---------- No Effect

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Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfide ---------- No Effect
Potassium Sulfite ---------- No Effect
Propane ---------- **Severe Effect**
Propane (Liquefied) ---------- **Severe Effect**
Propyl Alcohol ---------- No Effect
Propylene Dichloride ---------- Moderate Effect
Propylene Glycol ---------- Moderate Effect
Propylene Oxide ---------- Moderate Effect
Pyridine ---------- Moderate Effect
Pyroligneous Acid ---------- No Effect
Resorcinel ---------- No Effect
Rhodium Plating 120 F ---------- No Effect
Rosin ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- No Effect
Salicylic Acid ---------- No Effect
Saline Solution - All Conc. ---------- No Effect
Salt Water ---------- No Effect
Sea Water ---------- No Effect
Sewage ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicone ---------- No Effect
Silicone Oils ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Silver Plating Solutions ---------- No Effect

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Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Bromide ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Dichromate ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 3 Molar ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) -------- No Effect
Sodium Hydroxide, 70% (Cold) ---------- No Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hypochlorite ---------- Moderate Effect
Sodium Hypochlorite (to 20%) ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect
Sodium Iodide ---------- Moderate Effect
Sodium Metaphosphate ---------- **Severe Effect**
Sodium Nitrate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- No Effect

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Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Tetraborate ---------- Moderate Effect
Sodium Thiosulfate ---------- No Effect
Soft Drink Syrups ---------- No Effect
Solvent - Toner Kerosene Base ---------- No Effect
Soybean Oil ---------- Minor Effect
SP-90X ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Starch ---------- No Effect
Stearic Acid ---------- **Severe Effect**
Steric Acid ---------- Moderate Effect
Stoddard Solvent ---------- **Severe Effect**
Sugar (Liquids) ---------- No Effect
Sulfate Liquors ---------- No Effect
Sulfur ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- Moderate Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- Moderate Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide ---------- Moderate Effect
Sulfuric Acid ---------- Moderate Effect
Sulfuric Acid (Conc) ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 25% ---------- No Effect
Sulfuric Acid, 50% ---------- No Effect
Sulfuric Acid, 60% ---------- No Effect
Sulfuric Acid, 75% ---------- Moderate Effect
Sulfuric Acid, 85% ---------- Minor Effect
Sulfuric Acid, 95% ---------- **Severe Effect**
Sulfuric Acid, 98.5% ---------- No Effect

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Sulfurous Acid ---------- No Effect
Syrup ---------- No Effect
Tall Oil (Liquid Rosin) ---------- No Effect
Tallow ---------- Minor Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tar, Bituminous ---------- No Effect
Tartaric Acid ---------- No Effect
Terpineol ---------- **Severe Effect**
Tertiary Butyl Alcohol ---------- Minor Effect
Tetra Bromomethane ---------- **Severe Effect**
Tetrachloroethane ---------- **Severe Effect**
Tetraethyl Lead ---------- No Effect
Tetrahydrofuran ---------- Moderate Effect
Tetrahydronaphthalene ---------- Moderate Effect
THIO-RED ---------- No Effect
Thionyl Chloride ---------- Minor Effect
Thionyl Chloride ---------- **Severe Effect**
Tin-Fluoborate Plating 100 F ---------- No Effect
Tin-Lead Plating 100 F ---------- No Effect
Titanium Tetrachloride ---------- Minor Effect
Toluene ---------- **Severe Effect**
Toluene ---------- Minor Effect
Toluol ---------- Minor Effect
Tomato Pulp & Juice ---------- No Effect
Transformer Oil ---------- Minor Effect
Triallyl Phosphate ---------- Minor Effect
Tributyl Phosphate ---------- Minor Effect
Trichloroacetic Acid ---------- Minor Effect
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Trichloropropane ---------- **Severe Effect**
Tricresyl Phosphate ---------- Minor Effect
Triethanolamine ---------- Moderate Effect
Triethyl Amine ---------- Moderate Effect
Triethylene Glycol ---------- No Effect

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Tung Oil	No Effect
Turpentine	**Severe Effect**
Urea	No Effect
Urine	No Effect
Varnish	No Effect
Vegetable Oils	**Severe Effect**
Vinegar	No Effect
Vinyl Acetate	Minor Effect
Vinyl Chloride	**Severe Effect**
Water Acid, Mine	No Effect
Water, Distilled	No Effect
Water, Fresh	No Effect
Water, Glycol	No Effect
Water, Salt	No Effect
Wetting Agents	No Effect
Whiskey	No Effect
White Liquor (Pulp Mill)	No Effect
White Sulfate Liquor	No Effect
White Water (Paper Mill)	No Effect
Wines	No Effect
Xylene	**Severe Effect**
Zinc Chloride	No Effect
Zinc Plating, Acid Chloride 140 F	No Effect
Zinc Plating, Acid Fluoborate Bath R.T.	No Effect
Zinc Plating, Acid Sulfate Bath 150 F	No Effect
Zinc Plating, Alkaline Cyanide Bath R.T.	No Effect
Zinc Sulfate	No Effect

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POLYSULFONE

Chemical Compatibility

CHEMICAL	EFFECT
Acetic Acid, 5%	No Effect
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Alcohol, Butyl	Minor Effect
Alcohol, Ethyl	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonium Carbonate	No Effect
Ammonium Persulfate	No Effect
Amyl Chloride	No Effect
Aqua Ammonia	No Effect
Benzene	**Severe Effect**
Bleach, 12.5% Active Chlorine	No Effect
Butyl Acetate	**Severe Effect**
Calcium Chloride	No Effect
Calcium Hydroxide	No Effect
Calcium Hypochlorite	No Effect
Caustic Soda	No Effect
Chlorine Water	No Effect
Chlorine, Liquid, Anhydrous	No Effect
Chlorobenzene	**Severe Effect**
Chloroform	**Severe Effect**
Chromic Acid, 10%	**Severe Effect**
Chromic Acid, 30%	**Severe Effect**
Chromic Acid, 50%	**Severe Effect**
Citric Acid	No Effect
Cottonseed Oil	No Effect
Crude Oil	No Effect
Cyclohexanol	**Severe Effect**
Ethers	**Severe Effect**
Ethyl Acetate	**Severe Effect**
Ethylene Dichloride	No Effect

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Ethylene Glycol ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Sulfate ---------- No Effect
Formaldehyde ---------- No Effect
Freon 12 ---------- Moderate Effect
Freon 12,13,22,114,115 ---------- Moderate Effect
Fuel Oil ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Gas, Natural ---------- No Effect
Gasoline, Refined ---------- Moderate Effect
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Hydrobomic Acid, 20% ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrofluoric Acid, 50% ---------- Moderate Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Kerosene ---------- Moderate Effect
Lactic Acid, 25% ---------- No Effect
Linseed Oil ---------- No Effect
Methyl Chloride ---------- **Severe Effect**
Naphtha, Petroleum ---------- Minor Effect
Naphthalene ---------- **Severe Effect**
Nitric Acid, 10% ---------- Minor Effect
Nitric Acid, 68% ---------- **Severe Effect**
Nitrous Oxide ---------- No Effect
Oleic Acid ---------- No Effect
Oxalic Acid ---------- No Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Nitrate ---------- No Effect
Sea Water ---------- No Effect

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Sodium Carbonate	Moderate Effect
Sodium Hydroxide	No Effect
Sodium Hypochlorite	No Effect
Sodium Silicate	Moderate Effect
Sulfur Dioxide, Dry	No Effect
Sulfur Dioxide, Wet	No Effect
Sulfuric Acid, 10%	No Effect
Sulfuric Acid, 75%	No Effect
Sulfuric Acid, 98.5%	**Severe Effect**
Sulfurous Acid	No Effect
Tetrachloroethane	**Severe Effect**
Toluene	**Severe Effect**
Trichloroethylene	**Severe Effect**
Turpentine	**Severe Effect**
Vinegar	No Effect
Water, Distilled	No Effect
Water, Fresh	No Effect
Xylene	**Severe Effect**
Zinc Chloride	No Effect

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POLYURETHANE, URETHANE

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	**Severe Effect**
1-Chlorol 1 Nitro Ethane	**Severe Effect**
Acetaldehyde	**Severe Effect**
Acetate Solvents	**Severe Effect**
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 50%	**Severe Effect**
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	**Severe Effect**
Acetone Cyanohydrin	Minor Effect
Acetyl Acetone	**Severe Effect**
Aero Lubriplate	No Effect
Aerosafe 2300	**Severe Effect**
Aerosafe 2300W	**Severe Effect**
Aeroshell 17 Grease	No Effect
Aeroshell 1AC	No Effect
Aeroshell 750	**Severe Effect**
Aeroshell 7A Grease	No Effect
Air	No Effect
Alcohol	No Effect
Alcohol, Ethyl	**Severe Effect**
Alcohol, Methyl	**Severe Effect**
Alkaline Solutions	No Effect
Alkazene	Minor Effect

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Aluminum Acetate ---------- **Severe Effect**
Aluminum Bromide ---------- **Severe Effect**
Aluminum Fluoride ---------- **Severe Effect**
Aluminum Nitride ---------- **Severe Effect**
Aluminum Salts ---------- **Severe Effect**
Aluminum Sulfate ---------- **Severe Effect**
AMERSEP MP-7 ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- **Severe Effect**
Ammonia, Liquids ---------- Minor Effect
Ammonium Hydroxide ---------- **Severe Effect**
Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Nitrite ---------- No Effect
Ammonium Persulfate ---------- **Severe Effect**
Ammonium Persulfate, 10% ---------- **Severe Effect**
Ammonium Persulfate, 5% ---------- **Severe Effect**
Ammonium Salts ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- **Severe Effect**
Amyl Chloronaphthalene ---------- **Severe Effect**
AN-O-3 Grade M ---------- No Effect
AN-O-366 ---------- No Effect
AN-O-6 ---------- No Effect
AN-VV-O-366b Hydr. Fluid ---------- Minor Effect
Anderol, L-774 (Di-Ester) ---------- **Severe Effect**
Anderol, L-826 (Di-Ester) ---------- **Severe Effect**
Anderol, L-829 (Di-Ester) ---------- **Severe Effect**
ANG-25 (Di-Ester Base) (TG749) ---------- **Severe Effect**
ANG-25 (Glyceral Ester) ---------- **Severe Effect**
Anhydrous Ammonia ---------- **Severe Effect**
Anhydrous Hydrazine ---------- **Severe Effect**
Anhydrous Hydrogen Fluoride ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- **Severe Effect**

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Aniline Hydrochloride ---------- **Severe Effect**
Animal Fats & Oils ---------- Minor Effect
Ansul Ether ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Aromatic Fuel 50% ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Askarel ---------- **Severe Effect**
Asphalt ---------- Minor Effect
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- Minor Effect
ASTM, Red Motor Fuel C ---------- **Severe Effect**
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- Minor Effect
ASTM, Ref #3 Oil ---------- Minor Effect
ASTM, Ref #4 Oil ---------- **Severe Effect**
ATL-857 ---------- **Severe Effect**
Atlantic Dominion F ---------- Minor Effect
Aurex 903R (Mobil) ---------- No Effect
Automatic Transmission Fluid ---------- Minor Effect
Automotive Gasoline (Standard) ---------- Minor Effect
Bardol B ---------- **Severe Effect**
Barium Chloride ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Salts ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Bayol 35 ---------- Minor Effect
Bayol D ---------- **Severe Effect**
Beer (Alcohol Ind.) ---------- **Severe Effect**
Beer (Beverage Ind.) ---------- **Severe Effect**
Beet Sugar Liquids ---------- **Severe Effect**
Beet Sugar Liquors ---------- **Severe Effect**
Benzaldehyde ---------- **Severe Effect**

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Benzene Sulfonic Acid ---------- **Severe Effect**
Benzine (Gasoline) ---------- Minor Effect
Benzoic Acid ---------- **Severe Effect**
Benzophenone ---------- **Severe Effect**
Benzyl Alcohol ---------- **Severe Effect**
Benzyl Chloride ---------- **Severe Effect**
Black Point 77 ---------- **Severe Effect**
Black Sulfate Liquor ---------- **Severe Effect**
Blast Furnace Gas ---------- **Severe Effect**
Bleach Liquor ---------- **Severe Effect**
Blood (Meat Juices-Cold) ---------- **Severe Effect**
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- No Effect
Boron Fuels (HEF) ---------- **Severe Effect**
Bray GG - 130 ---------- **Severe Effect**
Brayco 719-R (VV-H-910) ---------- **Severe Effect**
Brayco 885 (Mil-L-6085A) ---------- No Effect
Brayco 910 ---------- **Severe Effect**
Bret 710 ---------- **Severe Effect**
Brine ---------- **Severe Effect**
Bromine (Dry) ---------- **Severe Effect**
Bromine (Wet) ---------- **Severe Effect**
Bromine Pentafluoride ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine, Anhydrous ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bromochloro Trifluoroethane ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- **Severe Effect**
Butadiene ---------- **Severe Effect**
Butane ---------- **Severe Effect**
Butane, 2,2-Dimethyl ---------- **Severe Effect**
Butane, 2,3-Dimethyl ---------- **Severe Effect**
Butanol ---------- **Severe Effect**
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect

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Buttermilk ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acetyl Ricinoleate ---------- **Severe Effect**
Butyl Acrylate ---------- **Severe Effect**
Butyl Alcohol ---------- **Severe Effect**
Butyl Cellosolve ---------- **Severe Effect**
Butyl Cellosolve Adipate ---------- **Severe Effect**
Butyl Stearate ---------- No Effect
Butylene ---------- **Severe Effect**
Butyraldehyde ---------- **Severe Effect**
Calcine Liquirs ---------- **Severe Effect**
Calcium Acetate ---------- **Severe Effect**
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- **Severe Effect**
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- **Severe Effect**
Calcium Hypochloride ---------- **Severe Effect**
Calcium Hypochlorite ---------- **Severe Effect**
Calcium Nitrate ---------- No Effect
Calcium Phosphate ---------- No Effect
Calcium Salts ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Caliche Liquors ---------- No Effect
Cane Sugar Liquors ---------- **Severe Effect**
Caproic Aldehyde ---------- **Severe Effect**
Carbamate ---------- **Severe Effect**
Carbitol ---------- **Severe Effect**
Carbolic Acid ---------- **Severe Effect**
Carbon Dioxide, Wet ---------- **Severe Effect**
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Carbonate of Soda ---------- Minor Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect

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Catsup ---------- No Effect
Cellosolve ---------- **Severe Effect**
Cellosolve Acetate ---------- **Severe Effect**
Cellosolve Butyl ---------- **Severe Effect**
Celluguard ---------- **Severe Effect**
Cellutherm 2505A ---------- **Severe Effect**
Cetane (Hexadecane) ---------- No Effect
China Wood Oil (Tung Oil) ---------- **Severe Effect**
Chloracetic Acid ---------- **Severe Effect**
Chlorate of Lime ---------- Minor Effect
Chlorextol ---------- **Severe Effect**
Chlorinated Salt Brine ---------- **Severe Effect**
Chlorinated Solvents, Dry ---------- **Severe Effect**
Chlorinated Solvents, Wet ---------- **Severe Effect**
Chlorine Dioxide ---------- **Severe Effect**
Chlorine, Wet ---------- **Severe Effect**
Chloroacetone ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chlorobromomethane ---------- **Severe Effect**
Chlorobutadiene ---------- **Severe Effect**
Chlorododecane ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorotoluene ---------- **Severe Effect**
Chlorox ---------- **Severe Effect**
Chrome Plating Solutions ---------- **Severe Effect**
Chromic Acid, 5% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Chromic Acid, 50% Solution (Hot) ---------- **Severe Effect**
Chromic Oxide .88 Wt. % ---------- **Severe Effect**
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Coal Tars ---------- Minor Effect
Cobalt Chloride ---------- No Effect
Coconut Oil ---------- No Effect

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Cod Liver Oil ---------- No Effect
Coffee ---------- **Severe Effect**
Coke Oven Gas ---------- No Effect
Convelex 10 ---------- Minor Effect
Coolanol (Monsanto) ---------- **Severe Effect**
Copper Acetate ---------- **Severe Effect**
Copper Acetate, Saturated Solution ---------- **Severe Effect**
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Salts ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- **Severe Effect**
Creosote, Coal-Tar ---------- **Severe Effect**
Creosote, Wood-Tar ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Cumeme ---------- **Severe Effect**
Cutting Oil (Sulfur Base) ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- No Effect
Cyclohexanone ---------- **Severe Effect**
D.D.T. ---------- No Effect
Decane ---------- Minor Effect
Denatured Alcohol ---------- **Severe Effect**
Detergent Solutions ---------- **Severe Effect**
Dextron ---------- Minor Effect
Di-Ester Lubricant Mil-L-7808 ---------- **Severe Effect**
Di-Ester Synthetic Lubricants ---------- **Severe Effect**
Diacetone ---------- **Severe Effect**

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Diacetone Alcohol ---------- **Severe Effect**
Dibenzyl Ether ---------- Minor Effect
Dibenzyl Sebecate ---------- **Severe Effect**
Dibromoethyl Benzene ---------- **Severe Effect**
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Ether ---------- Minor Effect
Dibutyl Sebecate ---------- **Severe Effect**
Dichloro Isopropyl Ether ---------- Minor Effect
Dichloro-Butane ---------- **Severe Effect**
Dicyclohexylamine ---------- **Severe Effect**
Diemethyl Formamide ---------- **Severe Effect**
Diesel Oil (Fuel ASTM #2) ---------- **Severe Effect**
Diethanol Amine ---------- **Severe Effect**
Diethyl Amine ---------- **Severe Effect**
Diethyl Aniline ---------- No Effect
Diethyl Sebacate ---------- **Severe Effect**
Diethyl Sulfate ---------- **Severe Effect**
Difluorodibromomethane ---------- **Severe Effect**
Diisobutylene ---------- **Severe Effect**
Diisooctyl Sebecate ---------- **Severe Effect**
Diisopropyl Ketone ---------- **Severe Effect**
Dinitrotoluene ---------- **Severe Effect**
Dioctyl Phthalate ---------- **Severe Effect**
Dioctyl Sebecate ---------- Minor Effect
Dioxane ---------- **Severe Effect**
Dioxolane (Dioxalans) ---------- **Severe Effect**
Diphenyl ---------- **Severe Effect**
Diphenyl Oxide ---------- **Severe Effect**
Dowtherm A ---------- **Severe Effect**
Dowtherm E ---------- **Severe Effect**
Drinking Water ---------- **Severe Effect**
Drycleaning Fluids ---------- **Severe Effect**
DTE Light Oil ---------- Minor Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- **Severe Effect**
Epsom Salts ---------- No Effect

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Esstic 42, 43 ---------- Minor Effect
Ethane ---------- **Severe Effect**
Ethanol ---------- **Severe Effect**
Ethers ---------- Minor Effect
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acetoacetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Alcohol ---------- **Severe Effect**
Ethyl Benzoate ---------- **Severe Effect**
Ethyl Cellose ---------- Minor Effect
Ethyl Cellosolve ---------- **Severe Effect**
Ethyl Chlorocarbonate ---------- **Severe Effect**
Ethyl Chloroformate ---------- **Severe Effect**
Ethyl Ether ---------- Minor Effect
Ethyl Mercaptan ---------- No Effect
Ethyl Pentachlorobenzene ---------- **Severe Effect**
Ethylacrylic Acid ---------- **Severe Effect**
Ethylcyclopentane ---------- No Effect
Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Diamine ---------- **Severe Effect**
Ethylene Dibromide ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- Minor Effect
Ethylene Oxide ---------- **Severe Effect**
Ethylene Oxide (12%) & Freon 12 (80%) -------- **Severe Effect**
Ethylene Trichloride ---------- **Severe Effect**
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Nitrate ---------- No Effect
Formaldehyde ---------- **Severe Effect**
Freon 112 ---------- Minor Effect
Freon 113 ---------- No Effect
Freon 22 ---------- **Severe Effect**
Freon T-P35 ---------- No Effect
Freon T-WD602 ---------- No Effect

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Freon T.F. ---------- No Effect
Freon TA ---------- No Effect
Freon TC ---------- No Effect
Freon TMC ---------- Minor Effect
Freon, PCA ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- **Severe Effect**
Fuming Sulphuric Acid (20/25% Oleum) --------- **Severe Effect**
Furfural ---------- **Severe Effect**
Furfuryl Alcohol ---------- **Severe Effect**
Furyl Carbinol ---------- **Severe Effect**
Gallic Acid ---------- **Severe Effect**
Gasoline (Meter) ---------- No Effect
Gelatin ---------- No Effect
Glacial Acetic Acid ---------- **Severe Effect**
Glauber's Salt ---------- No Effect
Glucose ---------- **Severe Effect**
Glue ---------- No Effect
Glycerine or Glycerol ---------- **Severe Effect**
Glycols ---------- **Severe Effect**
Grease (Petroleum Base) ---------- No Effect
Halothane ---------- **Severe Effect**
Hannifin Lube A ---------- No Effect
Heavy Water ---------- **Severe Effect**
Helium ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Hexyl Alcohol ---------- **Severe Effect**
High Viscosity Lubricant, H2 ---------- **Severe Effect**
High Viscosity Lubricant, U4 ---------- **Severe Effect**
Hilo MS #1 ---------- **Severe Effect**
Houghto-Safe 1120, Phosphate Ester ---------- **Severe Effect**
Houghto-Safe 271 (Water & Glycol Base) ------- **Severe Effect**
Houghto-Safe 5040 (Water/Oil Emulsion) ------- **Severe Effect**
Houghto-Safe 620Water/Glycol ---------- **Severe Effect**
Hydrobromic Acid ---------- **Severe Effect**

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Hydrobromic Acid 40% ---------- **Severe Effect**
Hydrocarbons (Saturated) ---------- Minor Effect
Hydrogen ---------- No Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrolube-Water/Ethylene Glycol ---------- **Severe Effect**
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine Pentafluoride ---------- **Severe Effect**
Isobutyl Alcohol ---------- **Severe Effect**
Isooctane ---------- Minor Effect
Isophorone ---------- **Severe Effect**
Isopropanol ---------- **Severe Effect**
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- **Severe Effect**
Isopropyl Chloride ---------- **Severe Effect**
Isopropyl Ether ---------- Minor Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
Kerosene ---------- No Effect
Ketones ---------- **Severe Effect**
Keystone #87HX-Grease ---------- No Effect
Lacquer Solvents ---------- **Severe Effect**
Lacquers ---------- **Severe Effect**
Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lard Oil (Cold) ---------- Minor Effect
Lard Oil (Hot) ---------- Minor Effect
Lavender Oil ---------- **Severe Effect**
Lead Acetate ---------- **Severe Effect**
Lehigh X1169 ---------- No Effect
Lehigh X1170 ---------- No Effect

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Light Grease ---------- Minor Effect
Ligroin ---------- No Effect
Lime ---------- Minor Effect
Lime Slurries ---------- Minor Effect
Lindol ---------- **Severe Effect**
Linseed Oil ---------- Minor Effect
Liquid Oxygen ---------- **Severe Effect**
Liquid Petroleum Gas (LPG) ---------- No Effect
Liquimoly ---------- Minor Effect
Lithium Chloride ---------- **Severe Effect**
Lubricating Oil Petroleum Base ---------- Minor Effect
Lubricating Oil SAE10,20,30,40,50 ---------- Minor Effect
Lye ---------- **Severe Effect**
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Salts ---------- No Effect
Malt Beverages ---------- **Severe Effect**
Manganese Chloride ---------- No Effect
MCS 352 ---------- **Severe Effect**
MCS 463 ---------- **Severe Effect**
Mercury ---------- Minor Effect
Mesityl Oxide ---------- **Severe Effect**
Methanol (See Alcohol Methyl) ---------- **Severe Effect**
Methyl Acetate ---------- **Severe Effect**
Methyl Acetoacetate ---------- **Severe Effect**
Methyl Acrylate ---------- **Severe Effect**
Methyl Acrylic Acid ---------- **Severe Effect**
Methyl Alcohol ---------- **Severe Effect**
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Carbonate ---------- **Severe Effect**
Methyl Cellosolve ---------- **Severe Effect**
Methyl Cellulose ---------- Minor Effect
Methyl Chloride ---------- Minor Effect
Methyl Chloroformate ---------- **Severe Effect**
Methyl Cyclopentane ---------- **Severe Effect**

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Methyl D-Bromide ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Ethyl Ketone Peroxide ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- **Severe Effect**
Mine Water ---------- **Severe Effect**
Mineral Oils ---------- No Effect
Mixed Acids Sulfuricnitric ---------- **Severe Effect**
MLO-7277 Hydr. ---------- **Severe Effect**
MLO-7557 ---------- **Severe Effect**
MLO-8200 Hydr. ---------- **Severe Effect**
MLO-8515 ---------- **Severe Effect**
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- **Severe Effect**
Monochlorobenzene ---------- **Severe Effect**
Monochlorodifluoro Methane ---------- **Severe Effect**
Monoethanolamine ---------- **Severe Effect**
Monomethylaniline ---------- **Severe Effect**
Mononitrotoluene & Dinitrotoluene (40/60 Mix) **Severe Effect**
Mustard ---------- No Effect
N-Butyl Ether ---------- Minor Effect
N-Hexene-1 ---------- Minor Effect
n-Octane ---------- **Severe Effect**
N-Pentane ---------- **Severe Effect**
N-Propyl Acetone ---------- **Severe Effect**
Napalm ---------- Minor Effect
Naptha ---------- **Severe Effect**
Natural Gas ---------- Minor Effect
Neatsfoot Oil ---------- No Effect
Neon ---------- No Effect
Nickel Acetate ---------- **Severe Effect**
Nickel Chloride ---------- **Severe Effect**
Nickel Salts ---------- **Severe Effect**

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Nickel Sulfate ---------- **Severe Effect**
Niter Coke ---------- **Severe Effect**
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid (Red Fuming) ---------- **Severe Effect**
Nitric Acid 3 Molar ---------- **Severe Effect**
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitroethane ---------- **Severe Effect**
Nitrogen ---------- No Effect
Nitrogen Tetroxide ---------- **Severe Effect**
Nitromethane ---------- **Severe Effect**
Nitropropane ---------- **Severe Effect**
O-Chloronaphthalene ---------- **Severe Effect**
O-Chlorphenol ---------- **Severe Effect**
Octachlorotoluene ---------- **Severe Effect**
Octadecane ---------- No Effect
Octyl Alcohol ---------- **Severe Effect**
Oils, Crude ---------- Minor Effect
Oleic Acid ---------- Minor Effect
Olein ---------- Minor Effect
Oleum (Fuming Sulfuric Acid) ---------- Minor Effect
Oleum Spirits ---------- Minor Effect
Olive Oil ---------- Minor Effect
Oronite 8200 ---------- No Effect
Oronite 8515 ---------- No Effect
Ortho-Dichlorobenzene ---------- **Severe Effect**
Orthochloro Ethyl Benzene ---------- **Severe Effect**
OS 45 Type III (OS45) ---------- **Severe Effect**
OS 45 Type IV (OS45-1) ---------- **Severe Effect**

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OS 70 ---------- **Severe Effect**
Oxygen, 200-400 degrees F ---------- **Severe Effect**
Oxygen, Cold ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- No Effect
P-Cymene ---------- **Severe Effect**
P-Dichlorobenzene ---------- **Severe Effect**
Palm Oil ---------- No Effect
Para-Dichlorobenzene ---------- **Severe Effect**
Paraffins (Paraffin Oil) ---------- No Effect
Paralketone ---------- **Severe Effect**
Peanut Oil ---------- Minor Effect
Pentane, 2 Methyl ---------- **Severe Effect**
Pentane, 2-4, Dimethyl ---------- **Severe Effect**
Pentane, 3-Methyl ---------- **Severe Effect**
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- **Severe Effect**
Petroleum Ether ---------- No Effect
Petroleum Oil, Above 250 degrees F ---------- **Severe Effect**
Petroleum Oil, Below 250 degrees F ---------- Minor Effect
Petroleum Oil, Crude ---------- No Effect
Phenol ---------- **Severe Effect**
Phenol, 70%/30% H2O ---------- **Severe Effect**
Phenol, 85%/15% H2O ---------- **Severe Effect**
Phenylbenzene ---------- **Severe Effect**
Phorone ---------- **Severe Effect**
Phosphoric Acid (Conc) ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 10% Solution (Hot) ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Acid, 85% Solution ---------- No Effect
Pickling Solution ---------- **Severe Effect**
Picric Acid, H2O Solution ---------- Minor Effect
Picric Acid, Molten ---------- Minor Effect

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Pinene ---------- Minor Effect
Piperidine ---------- **Severe Effect**
Pitch ---------- No Effect
Pneumatic Service ---------- No Effect
Potassium Acetate ---------- **Severe Effect**
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Cupro Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- Minor Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Salts ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- **Severe Effect**
PRL-High Temp. Hydr. Oil ---------- Minor Effect
Producer Gas ---------- No Effect
Propane ---------- **Severe Effect**
Propane ---------- **Severe Effect**
Propane Propionitrile ---------- **Severe Effect**
Propyl Acetate ---------- **Severe Effect**
Propyl Alcohol ---------- **Severe Effect**
Propylene ---------- **Severe Effect**
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- **Severe Effect**
Pydraul ---------- **Severe Effect**
Pydraul 10E, 29 ELT ---------- **Severe Effect**
Pydraul 115E ---------- **Severe Effect**
Pydraul 230E, 312C, 540C ---------- **Severe Effect**
Pydraul 30E, 50E, 65E, 90E ---------- **Severe Effect**

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Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- **Severe Effect**
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- **Severe Effect**
Pyrolube ---------- **Severe Effect**
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- **Severe Effect**
Rape-Seed Oil ---------- Minor Effect
Red Line 100 Oil ---------- No Effect
Red Oil (Mil-H-5606) ---------- No Effect
Resins and Rosins ---------- No Effect
RJ-1 (Mil-F-25558) ---------- Minor Effect
Rosin ---------- No Effect
RP-1 (Mil-R-25576) ---------- Minor Effect
Sal Ammoniac ---------- No Effect
Salt Water ---------- **Severe Effect**
Sea Water ---------- No Effect
Sewage ---------- **Severe Effect**
Shellac ---------- **Severe Effect**
Shellac (Bleached) ---------- **Severe Effect**
Shellac (Orange) ---------- **Severe Effect**
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Nitrate ---------- No Effect
Skydrol 500 ---------- **Severe Effect**
Skydrol 7000 ---------- **Severe Effect**
Soap Solutions ---------- **Severe Effect**
Soda Ash ---------- No Effect
Sodium Acetate ---------- **Severe Effect**
Sodium Acid Sulfate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect

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Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% (Cold) ---------- Minor Effect
Sodium Hydroxide, 3 Molar ---------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- Minor Effect
Sodium Hydroxide, 70% (Cold) ---------- Minor Effect
Sodium Hydroxide, 80% Solution (Hot) --------- Minor Effect
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- **Severe Effect**
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- No Effect
Sodium Phosphate (Dibasic) ---------- No Effect
Sodium Phosphate (Mono) ---------- No Effect
Sodium Phosphate (Tribasic) ---------- No Effect
Sodium Salts ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Sulfite, 10% Solution @ 150 F --------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Spry ---------- No Effect
SR-10 Fuel ---------- Minor Effect
SR-6 Fuel ---------- Minor Effect

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Starch ---------- No Effect
Steam, Above 350 F ---------- **Severe Effect**
Steam, Below 350 F ---------- **Severe Effect**
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Sucrose Solution ---------- **Severe Effect**
Sugar (Liquids) ---------- **Severe Effect**
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfur (Molten) ---------- **Severe Effect**
Sulfuric Acid (Conc) ---------- Minor Effect
Sulfuric Acid, 3 Molar ---------- **Severe Effect**
Sulfuric Acid, 85% ---------- No Effect
Sulfurous Acid ---------- **Severe Effect**
Sulphuric Acid, Concentrated Solution -------- **Severe Effect**
Sunsafe (Fire Resist. Hydr. Fluid) ---------- **Severe Effect**
Syrup ---------- No Effect
Tannic Acid ---------- **Severe Effect**
Tartaric Acid ---------- No Effect
Terpineol ---------- Minor Effect
Tertiary Butyl Alcohol ---------- **Severe Effect**
Tetrachloroethane ---------- **Severe Effect**
Tetrachloroethylene ---------- **Severe Effect**
Tetraethyl Lead ---------- No Effect
THIO-RED ---------- No Effect
Titanium Tetrachloride ---------- **Severe Effect**
Toluene ---------- Minor Effect
Toluene ---------- **Severe Effect**
Toluol ---------- **Severe Effect**
Triacetin ---------- **Severe Effect**
Triaryl Phosphate ---------- **Severe Effect**
Tributoxyl Ethyl Phosphate ---------- **Severe Effect**
Tributyl Phosphate ---------- **Severe Effect**
Trichloroacetic Acid ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**

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Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresyl Phosphate ------------------------- **Severe Effect**
Triethanolamine ----------------------------- **Severe Effect**
Trifluoroethane ----------------------------- **Severe Effect**
Trioctyl Phosphate -------------------------- **Severe Effect**
Tripoly Phosphate --------------------------- No Effect
Tung Oil ------------------------------------ Minor Effect
Turbine Oil --------------------------------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------------- No Effect
Turbo Oil #35 ------------------------------- **Severe Effect**
Turpentine ---------------------------------- **Severe Effect**
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) -------------------- Minor Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) Minor Effect
Univis 40 (Hydr. Fluid) ---------------------- No Effect
Univolt #35 (Mineral Oil) -------------------- No Effect
Varnish ------------------------------------- **Severe Effect**
Versilube ----------------------------------- No Effect
Versilube F-50 ------------------------------ No Effect
Vinegar ------------------------------------- **Severe Effect**
VV-H-910 ------------------------------------ **Severe Effect**
Water --------------------------------------- No Effect
Water, Acid Mine ---------------------------- **Severe Effect**
Water, Brine, Process, Beverage ------------- **Severe Effect**
Water, Distilled ---------------------------- No Effect
Water, Fresh -------------------------------- No Effect
Water, Salt --------------------------------- **Severe Effect**
Waxes --------------------------------------- No Effect
Wemco C ------------------------------------- No Effect
Whiskey ------------------------------------- **Severe Effect**
White Oil ----------------------------------- **Severe Effect**
Womar Salt ---------------------------------- No Effect
Wood Alcohol -------------------------------- **Severe Effect**
Wood Oil ------------------------------------ **Severe Effect**
Xenon --------------------------------------- No Effect
Xylene -------------------------------------- **Severe Effect**

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Xylidenes, Mixed, Aromatic ---------- **Severe Effect**
Zinc Acetate ---------- **Severe Effect**
Zinc Carbonate ---------- No Effect
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Salts ---------- No Effect

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Polyvinyl Acetate Emulsion

Material Compatibility

MATERIAL	EFFECT
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect

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Potash

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Minor Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Potassium Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Potassium Alum

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Potassium Bicarbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Moderate Effect
ECTFE	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect

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PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- Minor Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- No Effect

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Potassium Bisulfate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Bisulfite

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Bromide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Minor Effect
RYTON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Potassium Carbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide) ---------- Moderate Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Minor Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- Minor Effect

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Potassium Chlorate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	**Severe Effect**
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**

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PHENOLIC	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	Moderate Effect

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Potassium Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
MONEL	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect

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RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Moderate Effect

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Potassium Chloride, Boiling

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
BRASS	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Potassium Chromate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	**Severe Effect**
EPOXY	Moderate Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RUBBER (Natural)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Copper Cyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	Minor Effect

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Potassium Cupro Cyanide

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Potassium Cyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect

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VITON ---------- No Effect

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Potassium Dichromate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect

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RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Potassium Dichromate 40%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ECTFE	No Effect
HYPALON	No Effect
MONEL	Moderate Effect
NORYL	No Effect
POLYPROPYLENE	No Effect

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Potassium Diphosphate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Potassium Ferricyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
KALREZ	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Potassium Ferrocyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON STEEL	Moderate Effect
CAST BRONZE	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Ferrocyanine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
KALREZ	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Potassium Hydroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	Moderate Effect
POLYCARBONATE (LEXAN)	Minor Effect

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POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	Moderate Effect
VITON	**Severe Effect**

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Potassium Hydroxide, 27% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
FLOURAZ	No Effect
TEFLON	No Effect

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Potassium Hydroxide, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Hydroxide, 50%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Moderate Effect
CERAMAGNET "A"	No Effect
CERAMIC	**Severe Effect**
CYCOLAC (ABS)	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect
TITANIUM	Moderate Effect
TYGON (E-3606)	Minor Effect
VITON	Minor Effect

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Potassium Hydroxide, 50% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect

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Potassium Hydroxide, 70% Solution

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Hydroxide, 70% Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Hypochlorite

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
KALREZ	No Effect
TEFLON	No Effect

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Potassium Iodide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Monophosphates

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Potassium Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide)	Moderate Effect
PHENOLIC	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Moderate Effect
VITON	Moderate Effect

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Potassium Nitrate 1% to 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Nitrite

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Oxalate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
KALREZ	No Effect
TEFLON	No Effect

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Potassium Permanganate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
EPOXY	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	Minor Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	Minor Effect

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VITON ---------- Minor Effect

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Potassium Permanganate 10%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
ACRYLIC	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Potassium Permanganate, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Peroxide

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
KALREZ	No Effect

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Potassium Phosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Potassium Silicate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	No Effect
NEOPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide)	Moderate Effect
PHENOLIC	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	No Effect
VITON	Moderate Effect

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Potassium Sulfate, 1% and 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Sulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Sulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Sulphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Sulphite or Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Potassium Triphosphate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
KALREZ	No Effect
NYLON (Polyamide)	No Effect

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Prestone

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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PRL-High Temp. Hydr. Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Producer Gas

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Propane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Propane (Liquefied)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Propane Propionitrile

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Propionaldehyde

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Propionic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Propyl Acetate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Propyl Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Propyl Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
VITON	**Severe Effect**

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Propylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Propylene Dichloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVC	**Severe Effect**
SILICONE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Propylene Glycol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	Moderate Effect
NORYL	Minor Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	No Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect

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POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Propylene Oxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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PVC

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetamide	**Severe Effect**
Acetate Solvents	Minor Effect
Acetic Acid, 20%	Minor Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 5%	**Severe Effect**
Acetic Acid, 50%	Minor Effect
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Acetyl Chloride	No Effect
Acetylene (Ethyne)	Minor Effect
Adipic Acid	No Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	**Severe Effect**
Alcohol, Butyl	Moderate Effect
Alcohol, Diacetone	**Severe Effect**
Alcohol, Ethyl	Minor Effect
Alcohol, Hexyl	No Effect
Alcohol, Methyl	Minor Effect
Alcohol, Propyl	Minor Effect
Aluminum Ammonium Sulfate	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Fluoride	Minor Effect
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 10%	No Effect
Aluminum Potassium Sulfate (Alum), 100%	No Effect
Aluminum Salts	No Effect
Aluminum Sulfate	Minor Effect
Alums	No Effect

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AMERSEP MP-7 ---------- No Effect
Amines ---------- **Severe Effect**
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- **Severe Effect**
Ammonia, Liquids ---------- Minor Effect
Ammonia, Nitrate ---------- Minor Effect
Ammonium Acetate ---------- No Effect
Ammonium Bifluoride, 10% ---------- Minor Effect
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- No Effect
Ammonium Fluoride ---------- Moderate Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Nitrate ---------- Minor Effect
Ammonium Oxalate, 5% Sol. ---------- No Effect
Ammonium Persulfate ---------- Minor Effect
Ammonium Persulfate, 10% ---------- Minor Effect
Ammonium Persulfate, 5% ---------- Minor Effect
Ammonium Phosphate ---------- Minor Effect
Ammonium Phosphate, Di-Basic ---------- Minor Effect
Ammonium Phosphate, Monobasic ---------- Minor Effect
Ammonium Phosphate, Tri-Basic ---------- Minor Effect
Ammonium Salts ---------- Minor Effect
Ammonium Sulfate ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- No Effect
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aniline Oil ---------- **Severe Effect**
Antimony Trichloride ---------- No Effect
Aqua Ammonia ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- **Severe Effect**
Arsenic Acid ---------- Minor Effect
Arsenious Acid ---------- Minor Effect
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect

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Barium Chloride ---------- No Effect
Barium Cyanide ---------- **Severe Effect**
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- Minor Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- Moderate Effect
Beer ---------- No Effect
Beet Sugar Liquids ---------- Minor Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- **Severe Effect**
Benzoic Acid ---------- Moderate Effect
Benzol ---------- **Severe Effect**
Benzyl Acetate ---------- **Severe Effect**
Benzyl Alcohol ---------- Minor Effect
Bismuth Carbonate ---------- No Effect
Black Liquor ---------- No Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- Minor Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Bromic Acid ---------- No Effect
Bromine Water ---------- Moderate Effect
Bromine, Liquid ---------- **Severe Effect**
Bromobenzene ---------- **Severe Effect**
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - **Severe Effect**
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Butadiene ---------- Moderate Effect
Butane ---------- Moderate Effect
Butanol ---------- Minor Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acrylate ---------- Minor Effect
Butyl Alcohol ---------- Minor Effect

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Butyl Phenol ---------- Moderate Effect
Butylene ---------- Moderate Effect
Butyric Acid ---------- **Severe Effect**
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- No Effect
Calcium Bisulfate ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Sulfate ---------- No Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- No Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbon Tetrachloride-Pure ---------- Minor Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Caustic Soda ---------- No Effect
Cellosolve Acetate ---------- Minor Effect
Chloracetic Acid ---------- No Effect
Chloral Hydrate ---------- No Effect
Chloric Acid ---------- **Severe Effect**
Chlorine Water ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- Minor Effect
Chlorine, Liquid, Anhydrous ---------- **Severe Effect**
Chlorine, Wet ---------- Minor Effect

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Chloroacetic Acid ---------- No Effect
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- Moderate Effect
Chlorox ---------- No Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- Minor Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- **Severe Effect**
Chromium Plating, Barrel Chrome Bath 95 F ---- No Effect
Chromium Plating, Black Chrome Bath 115 F ---- No Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F No Effect
Chromium Plating, Fluoride Bath 130 F -------- No Effect
Chromium Plating, Fluosilicate Bath 95 F ----- No Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- **Severe Effect**
Citric Acid ---------- No Effect
Citric Acid, 5% Solution ---------- Minor Effect
Citric Acid, 5% Solution (@ 150 F) ---------- Minor Effect
Copper (Misc),Copper (Electroless) 140 F ----- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- No Effect
Copper Fluoride ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- Minor Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- No Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - **Severe Effect**
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- **Severe Effect**
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Corn Oil ---------- No Effect

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Cottonseed Oil ---------- No Effect
Creosols ---------- **Severe Effect**
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- No Effect
Crude Oil ---------- No Effect
Cyclohexane ---------- Minor Effect
Cyclohexanol ---------- **Severe Effect**
Decalin ---------- Minor Effect
Detergent Solutions ---------- No Effect
Dextrose ---------- No Effect
Diazo Salts ---------- No Effect
Dichlorethane ---------- **Severe Effect**
Dichloroethane ---------- **Severe Effect**
Diemethyl Formamide ---------- **Severe Effect**
Diesel Oil (Fuel ASTM #2) ---------- Minor Effect
Diethyl Amine ---------- **Severe Effect**
Diethyl Benzene ---------- **Severe Effect**
Diethyl Ether ---------- **Severe Effect**
Diethylamine ---------- **Severe Effect**
Diethylene Glycol ---------- **Severe Effect**
Diglycolic Acid ---------- No Effect
Dimethylamine ---------- **Severe Effect**
Dioctylphthalate ---------- **Severe Effect**
Disodium Phosphate ---------- No Effect
Epsom Salts ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Alcohol ---------- Minor Effect
Ethyl Benzene ---------- **Severe Effect**
Ethyl Benzoate ---------- **Severe Effect**
Ethyl Butyrate ---------- **Severe Effect**
Ethyl Chloride ---------- **Severe Effect**
Ethyl Chloride (Wet) ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethylene Bromide ---------- **Severe Effect**

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Ethylene Chloride ---------- **Severe Effect**
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monomethyl Ether ---------- **Severe Effect**
Ethylene Oxide ---------- **Severe Effect**
Fatty Acids ---------- Moderate Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluboric Acid ---------- No Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluorine ---------- Moderate Effect
Fluorine (Anhydrous) ---------- **Severe Effect**
Fluorine Gas (wet) ---------- **Severe Effect**
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- Moderate Effect
Formaldehyde (Hot) ---------- Minor Effect
Formaldehyde, 40% ---------- Minor Effect
Formic Acid ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- Minor Effect
Freon 11 ---------- Minor Effect
Freon 113 ---------- Moderate Effect
Freon 12 ---------- **Severe Effect**
Freon 12,13,22,114,115 ---------- No Effect
Freon 22 ---------- **Severe Effect**
Freon T.F. ---------- Minor Effect
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Furfural ---------- **Severe Effect**

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Gallic Acid ---------- No Effect
Gas, Manufactured ---------- **Severe Effect**
Gas, Natural ---------- No Effect
Gasoline (Meter) ---------- Minor Effect
Gasoline (Sour) ---------- Minor Effect
Gasoline, Refined ---------- Moderate Effect
Gelatin ---------- No Effect
Glacial Acetic Acid ---------- Minor Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- Minor Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- **Severe Effect**
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- Minor Effect
Hexane ---------- **Severe Effect**
Hexanol, Tertiary ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrobomic Acid, 20% ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid 40% ---------- Minor Effect
Hydrobromic Acid, 20% ---------- No Effect
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid (Dry Gas) ---------- No Effect
Hydrochloric Acid, 100% ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect

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Hydrochloric Acid, 37% ---------- No Effect
Hydrocloric Acid 3 Molar ---------- **Severe Effect**
Hydrocloric Acid Concentrated ---------- **Severe Effect**
Hydrocyanic Acid ---------- Minor Effect
Hydrocyanic Acid (Gas 10%) ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- No Effect
Hydrofluoric Acid, 100% ---------- Moderate Effect
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 50% ---------- No Effect
Hydrofluoric Acid, 75% ---------- Moderate Effect
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen Gas ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 30% ---------- No Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- Minor Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide Dry, Cold ---------- Minor Effect
Hydrogen Sulfide Dry, Hot ---------- Minor Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroxyacetic Acid, 10% ---------- **Severe Effect**
Hydroxyacetic Acid, 70% ---------- No Effect
Hypochlorous Acid ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- **Severe Effect**
Iron Plating, Ferrous Am. Sulfate Bath 150 F - **Severe Effect**
Iron Plating, Ferrous Chloride Bath 190 F ---- **Severe Effect**
Iron Plating, Ferrous Sulfate Bath 150 F ----- **Severe Effect**
Iron Plating, Fluoborate Bath 145 F ---------- **Severe Effect**
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- **Severe Effect**
Isobutyl Alcohol ---------- Minor Effect
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- Minor Effect

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Isopropyl Benzene ---------- **Severe Effect**
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
JP-4 (Mil-J-5624) ---------- Minor Effect
JP-5 (Mil-J-5624) ---------- Minor Effect
Kerosene ---------- **Severe Effect**
Ketones ---------- **Severe Effect**
Lacquer Thinners ---------- Moderate Effect
Lacquers ---------- **Severe Effect**
Lactic Acid ---------- No Effect
Lactic Acid 10% Solution (Boiling) ---------- Minor Effect
Lactic Acid, 25% ---------- No Effect
Lactic Acid, 5% Solution ---------- Minor Effect
Lard ---------- No Effect
Lauric Acid ---------- No Effect
Lead Acetate ---------- Minor Effect
Lead Fluoborate Plating ---------- No Effect
Lead Sulfamate ---------- Minor Effect
Lime ---------- No Effect
Linoleic Acid ---------- No Effect
Linseed Oil ---------- No Effect
Liquor, White ---------- No Effect
Liquors ---------- No Effect
Lubricants ---------- No Effect
Magnesium Carbonate ---------- Minor Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Hydroxide ---------- Minor Effect
Magnesium Nitrate ---------- No Effect
Magnesium Nitrate ---------- Minor Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- **Severe Effect**
Malic Acid ---------- Minor Effect
Mercuric Chloride ---------- **Severe Effect**
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercury ---------- Minor Effect

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Methanol (See Alcohol Methyl) ---------- Minor Effect
Methyl Acetate ---------- **Severe Effect**
Methyl Acetone ---------- **Severe Effect**
Methyl Alcohol ---------- Minor Effect
Methyl Alcohol, 10% ---------- No Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Butyl Ketone ---------- No Effect
Methyl Cellosolve ---------- Minor Effect
Methyl Chloride ---------- **Severe Effect**
Methyl Dichloride ---------- No Effect
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methylamine ---------- No Effect
Methylene Chloride ---------- **Severe Effect**
Milk ---------- Minor Effect
Mineral Oils ---------- Minor Effect
Mixed Acids ---------- No Effect
Molasses ---------- Minor Effect
Mustard ---------- No Effect
Naptha ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Nickel Chloride ---------- No Effect
Nickel Plating, Electroless 200 F ---------- **Severe Effect**
Nickel Plating, Fluoborate 100-170 F ---------- **Severe Effect**
Nickel Plating, High Chloride 130-160 F ---------- **Severe Effect**
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F ---------- **Severe Effect**
Nickel Sulfate ---------- No Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- Minor Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 68% ---------- No Effect

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Nitric Acid, Anhydrous ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitrous Oxide ---------- No Effect
Oils and Fats ---------- No Effect
Oleic Acid ---------- No Effect
Olein ---------- **Severe Effect**
Oleum ---------- **Severe Effect**
Oleum (Fuming Sulfuric Acid) ---------- **Severe Effect**
Oleum, 25% ---------- **Severe Effect**
Olive Oil ---------- No Effect
Oxalic Acid ---------- No Effect
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Ozone (Wet) ---------- Minor Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Peanut Oil ---------- No Effect
Perchloric Acid ---------- Minor Effect
Perchloric Acid, 10% ---------- No Effect
Perchloric Acid, 70% ---------- No Effect
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- Minor Effect
Petroleum Oils (Sour) ---------- No Effect
Phenol ---------- Moderate Effect
Phenol (Carbolic Acid) ---------- No Effect
Phenol, 10% ---------- No Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phosgene, Gas ---------- No Effect
Phosphoric Acid, 1% Solution ---------- Minor Effect
Phosphoric Acid, 10% ---------- Minor Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 5% Solution ---------- Minor Effect
Phosphoric Acid, 50% ---------- Minor Effect
Phosphoric Acid, 85% Solution ---------- Minor Effect
Phosphoric Anhydride (Dry or Moist) ---------- **Severe Effect**

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Phosphoric Anhydride (Molten) ---------- **Severe Effect**
Photographic Developers ---------- No Effect
Photographic Solutions ---------- No Effect
Phthalic Anhydride ---------- **Severe Effect**
Picric Acid ---------- **Severe Effect**
Picric Acid, H2O Solution ---------- **Severe Effect**
Pine Oil ---------- **Severe Effect**
Plating Solutions ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Potash ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- **Severe Effect**
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Ferricyanide ---------- Minor Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Hydroxide, 70% Solution ---------- Minor Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfide ---------- Minor Effect
Propane ---------- **Severe Effect**
Propane (Liquefied) ---------- **Severe Effect**
Propylene Dichloride ---------- **Severe Effect**
Propylene Glycol ---------- Minor Effect
Propylene Oxide ---------- Minor Effect
Pyridine ---------- No Effect

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Pyrogallic Acid ---------- No Effect
Rape-Seed Oil ---------- No Effect
Resorcinel ---------- Minor Effect
Rhodium Plating 120 F ---------- No Effect
Rum ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- Minor Effect
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- Minor Effect
Silver Plating 80-120 F ---------- No Effect
Silver Plating Solutions ---------- No Effect
Soaps ---------- Minor Effect
Sodium Acetate ---------- Minor Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Borate ---------- Moderate Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect
Sodium Cyanide ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- **Severe Effect**
Sodium Hydrosulfite ---------- Moderate Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- Minor Effect
Sodium Hydroxide, 3 Molar ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) -------- Minor Effect
Sodium Hydroxide, 70% (Cold) ---------- Minor Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- No Effect

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Sodium Hypochlorite, 20% ---------- Minor Effect
Sodium Hypochlorite, 5% ---------- Minor Effect
Sodium Metaphosphate ---------- Minor Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Nitrate ---------- Minor Effect
Sodium Perborate ---------- Minor Effect
Sodium Peroxide ---------- Minor Effect
Sodium Phosphate ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Water Glass) ---------- Minor Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Tetra Borate (Borax) ---------- Minor Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- Minor Effect
Sour Crude Oil ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- Moderate Effect
Starch ---------- No Effect
Stearic Acid ---------- No Effect
Steric Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- **Severe Effect**
Sulfur ---------- Moderate Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfur Trioxide ---------- No Effect
Sulfur Trioxide (Dry) ---------- Minor Effect

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Sulfuric Acid, 10%	No Effect
Sulfuric Acid, 75%	No Effect
Sulfuric Acid, 85%	**Severe Effect**
Sulfuric Acid, 98.5%	No Effect
Sulfurous Acid	Minor Effect
Sulfuryl Chloride	No Effect
Syrup	No Effect
Tannic Acid	Minor Effect
Tanning Liquors	No Effect
Tartaric Acid	No Effect
Tetrachloroethane	**Severe Effect**
Tetrachloroethylene	**Severe Effect**
Tetrahydrofuran	**Severe Effect**
THIO-RED	No Effect
Thionyl Chloride	**Severe Effect**
Tin-Fluoborate Plating 100 F	No Effect
Tin-Lead Plating 100 F	No Effect
Toluene	**Severe Effect**
Toluol	**Severe Effect**
Tomato Pulp & Juice	No Effect
Trichloroethane	Minor Effect
Trichloroethylene	**Severe Effect**
Tricresyl Phosphate	**Severe Effect**
Triethanolamine	No Effect
Triethyl Aluminum	No Effect
Triethyl Amine	Minor Effect
Triethylene Glycol	Minor Effect
Turbine Oil	No Effect
Turpentine	**Severe Effect**
Urea	**Severe Effect**
Urine	No Effect
Vinegar	No Effect
Water	Minor Effect
Water Acid, Mine	No Effect
Water, Acid Mine	Minor Effect
Water, Distilled	No Effect

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Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
Wines ---------- No Effect
Xylene ---------- **Severe Effect**
Zinc Chloride ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ No Effect
Zinc Plating, Acid Sulfate Bath 150 F -------- **Severe Effect**
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Sulfate ---------- Moderate Effect

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PVDF 150 DEGREES (KYNAR)

Chemical Compatibility

CHEMICAL	EFFECT
Acetate Solvents	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 50% Boiling	Minor Effect
Acetic Acid, 80%	Minor Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	Minor Effect
Acetone	**Severe Effect**
Acetophenone	Minor Effect
Acetyl Chloride	No Effect
Alcohol, Amyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Propyl	**Severe Effect**
Allyl Alcohol	No Effect
Allyl Chloride	No Effect
Alum	No Effect
Aluminum Chloride	No Effect
Aluminum Fluoride	No Effect
Aluminum Hydroxide	No Effect
Aluminum Nitride	No Effect
Aluminum Sulfate	No Effect
AMERSEP MP-7	No Effect
Ammonia Gas, Cold	No Effect
Ammonia Gas, Hot	No Effect
Ammonium Carbonate	No Effect
Ammonium Chloride, 1%	No Effect
Ammonium Fluoride	No Effect
Ammonium Nitrate	No Effect
Ammonium Phosphate	No Effect
Ammonium Phosphate, Di-Basic	No Effect

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Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Chloride ---------- No Effect
Aniline ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Arsenious Acid ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Sulfide ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene Sulfonic Acid ---------- **Severe Effect**
Benzoic Acid ---------- No Effect
Benzyl Alcohol ---------- No Effect
Boric Acid ---------- No Effect
Brine ---------- No Effect
Bromine (Wet) ---------- No Effect
Bromine Water ---------- No Effect
Butadiene ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyric Acid ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Sulfate - Saturated ---------- No Effect
Carbon Dioxide, Wet ---------- No Effect

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Carbon Disulfide ---------- **Severe Effect**
Carbon Tetrachloride-Pure ---------- **Severe Effect**
Castor Oil ---------- No Effect
Cellosolve ---------- No Effect
Chlorine Gas - 100 Degrees C ---------- No Effect
Chlorine Gas - Dry ---------- No Effect
Chlorine Gas - Moist ---------- No Effect
Chlorine, Dry ---------- No Effect
Chlorine, Wet ---------- No Effect
Chloroacetic Acid ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid (Dry) ---------- **Severe Effect**
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chrome Alum ---------- **Severe Effect**
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Salts ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Cottonseed Oil ---------- No Effect
Creosols ---------- No Effect
Cresylic Acid ---------- No Effect
Cyclohexane ---------- No Effect
Cyclohexanol ---------- No Effect
Cyclohexanone ---------- **Severe Effect**
Dextron ---------- No Effect
Dichloroethane ---------- Minor Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diethyl Amine ---------- Minor Effect
Diethyl Ether ---------- **Severe Effect**

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Dioxane ---------- **Severe Effect**
Epichlorohydrin ---------- No Effect
Ethers ---------- Minor Effect
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acetoacetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Ether ---------- **Severe Effect**
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Diamine ---------- **Severe Effect**
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- Minor Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate (Copperas) ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluorine (Anhydrous) ---------- Minor Effect
Formaldehyde ---------- Minor Effect
Formaldehyde (Hot) ---------- Minor Effect
Formic Acid (Dilute Cold) ---------- No Effect
Formic Acid (Dilute Hot) ---------- No Effect
Freon 11 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 22 ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- Minor Effect
Furfural ---------- **Severe Effect**
Gallic Acid ---------- Minor Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Sour) ---------- No Effect

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Gelatin ---------- No Effect
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- Minor Effect
Glycols ---------- No Effect
Grape Juice ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Heptane ---------- No Effect
Hexane ---------- No Effect
Honey ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine (Diamine) ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid 40% ---------- No Effect
Hydrochloric Acid ---------- No Effect
Hydrocloric Acid 3 Molar ---------- No Effect
Hydrocloric Acid Concentrated ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid 65% or less, Cold ---------- No Effect
Hydrofluoric Acid 65% or Less, Hot ---------- No Effect
Hydrofluoric Acid 65% or More, Cold ---------- No Effect
Hydrofluoric Acid 65% or More, Hot ---------- No Effect
Hydrogen ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 90% ---------- Minor Effect
Hydrogen Sulfide Dry, Cold ---------- No Effect
Hydrogen Sulfide Dry, Hot ---------- No Effect
Hydroxyacetic Acid, 10% ---------- No Effect
Hypochlorous Acid ---------- No Effect
Iodine ---------- Minor Effect
Isopropyl Acetate ---------- **Severe Effect**
Kerosene ---------- No Effect
Lacquers ---------- **Severe Effect**

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Lactic Acid 10% Solution (Boiling) ---------- **Severe Effect**
Lactic Acid, 5% Solution ---------- Minor Effect
Lard Oil (Cold) ---------- No Effect
Lard Oil (Hot) ---------- No Effect
Latex ---------- No Effect
Lead Acetate ---------- No Effect
Lead Sulfamate ---------- No Effect
Lemon Oil ---------- No Effect
Ligroin ---------- No Effect
Lime ---------- No Effect
Linoleic Acid ---------- No Effect
Linseed Oil ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Sulfate ---------- No Effect
Maleic Acid ---------- No Effect
Malic Acid ---------- No Effect
Mercuric Chloride ---------- No Effect
Mercurous Nitrate ---------- No Effect
Mercury ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- **Severe Effect**
Methyl Acetone ---------- **Severe Effect**
Methyl Acrylate ---------- **Severe Effect**
Methyl Alcohol ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Dichloride ---------- No Effect
Methyl Ethyl Ketone ---------- Minor Effect
Methyl Isobutyl Ketone ---------- Minor Effect
Methyl Isopropyl Ketone ---------- **Severe Effect**

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Methyl Methacrylate ---------- **Severe Effect**
Methylene Chloride ---------- Minor Effect
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Molasses ---------- Minor Effect
Monoethanolamine ---------- **Severe Effect**
Naptha ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Sulfate ---------- No Effect
Nicotine ---------- Minor Effect
Nicotinic Acid ---------- No Effect
Nitric Acid Inhibited Red Fuming (IRFNA) ----- **Severe Effect**
Nitric Acid, 10% ---------- Minor Effect
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitrobenzene ---------- Minor Effect
Nitrous Acid ---------- Minor Effect
Oleic Acid ---------- No Effect
Olein ---------- **Severe Effect**
Oleum (Fuming Sulfuric Acid) ---------- **Severe Effect**
Oxalic Acid, 5% (Hot and Cold) ---------- Minor Effect
Oxygen, Gaseous ---------- No Effect
Paint Thinner, DUCO ---------- No Effect
Palmitic Acid ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Perchloric Acid ---------- Minor Effect
Perchloroethylene ---------- No Effect
Petrolatum ---------- No Effect
Phenol ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- Minor Effect
Phosphoric Acid, 85% Solution ---------- Minor Effect
Phosphorus Trichloride ---------- Minor Effect
Phthalic Anhydride ---------- No Effect

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Picric Acid, H2O Solution ---------- Minor Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chromate ---------- Minor Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Ferricyanide ---------- No Effect
Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- Minor Effect
Potassium Hydroxide, 50% Solution (Boiling) -- Minor Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propane ---------- No Effect
Pyridine ---------- Minor Effect
Pyrogallic Acid ---------- Minor Effect
Sea Water ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Bromide ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- Minor Effect
Sodium Hydroxide, 20% Solution (Hot) --------- Minor Effect
Sodium Hydroxide, 50% Solution (Cold) -------- Minor Effect
Sodium Hypochlorite, 20% ---------- No Effect

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Sodium Hypochlorite, 5% ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Sour Crude Oil ---------- No Effect
SP-90X ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Sulfur Chloride ---------- Minor Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide (Dry) ---------- Minor Effect
Sulfuric Acid, 85% ---------- Minor Effect
Sulfurous Acid ---------- No Effect
Sulphuric Acid, 10% Solution ---------- No Effect
Tall Oil (Liquid Rosin) ---------- No Effect
Tannic Acid ---------- Minor Effect
Tartaric Acid ---------- Minor Effect
Tetrachloroethane ---------- No Effect
Tetrahydrofuran ---------- Minor Effect
THIO-RED ---------- No Effect
Toluene ---------- Minor Effect
Toluol ---------- Minor Effect
Tomato Pulp & Juice ---------- No Effect
Tributyl Phosphate ---------- Minor Effect
Trichloroacetic Acid ---------- Minor Effect
Trichloroethane ---------- No Effect

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Trichloroethylene	Minor Effect
Tricresyl Phosphate	**Severe Effect**
Triethyl Aluminum	Minor Effect
Triethyl Amine	No Effect
Trisodium Phosphate	No Effect
Turpentine	No Effect
Urea	No Effect
Vinegar	Minor Effect
Water	No Effect
Water, Acid Mine	No Effect
Water, Brine, Process, Beverage	No Effect
Water, Distilled	No Effect
Water, Fresh	No Effect
Water, Salt	No Effect
Whiskey	No Effect
Xylene	No Effect
Zinc Chloride	No Effect
Zinc Nitrate	No Effect
Zinc Sulfate	No Effect

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Pydraul

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pydraul 10E, 29 ELT

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Pydraul 115E

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Pydraul 230E, 312C, 540C

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Pydraul 30E, 50E, 65E, 90E

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Pyranol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Pyranol, Transformer Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Pyridine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect

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TYGON (E-3606) ---------- **Severe Effect**

VITON ---------- **Severe Effect**

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Pyridine Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
VITON	**Severe Effect**

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Pyrogallic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Pyroligneous

Material Compatibility

MATERIAL	EFFECT
TEFLON	No Effect

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Pyroligneous Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	Moderate Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Pyrolube

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Pyrrole

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Quaternary Ammonium Salts

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Quench Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Quinine Bisulphate (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Quinine Sulphate (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Radiation

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Rape-Seed Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Rayon Spin Bath

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Red Line 100 Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Red Oil (Mil-H-5606)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Resins and Rosins

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Resorcinol

Material Compatibility

MATERIAL	EFFECT
KALREZ	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
TEFLON	No Effect

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Rhodium Plating 120 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	**Severe Effect**
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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RJ-1 (Mil-F-25558)

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Rose Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Rosin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Rosin Emulsion

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
TEFLON	No Effect

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Rosin Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Rotenone

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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RP-1 (Mil-R-25576)

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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RUBBER (Natural)

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Moderate Effect
Acetamide	**Severe Effect**
Acetic Acid, 5%	Moderate Effect
Acetic Acid, Glacial	Moderate Effect
Acetic Anhydride	Moderate Effect
Acetyl Chloride	No Effect
Acetylene (Ethyne)	Moderate Effect
Alcohol, Amyl	Moderate Effect
Alcohol, Benzyl	**Severe Effect**
Alcohol, Butyl	No Effect
Alcohol, Diacetone	**Severe Effect**
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	Moderate Effect
Alcohol, Propyl	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Fluoride	Moderate Effect
Aluminum Hydroxide	No Effect
Aluminum Potassium Sulfate (Alum), 10%	No Effect
Aluminum Potassium Sulfate (Alum), 100%	No Effect
Aluminum Sulfate	No Effect
Amines	Moderate Effect
Ammonia, 10%	No Effect
Ammonia, Anhydrous, Liquid	**Severe Effect**
Ammonia, Liquids	**Severe Effect**
Ammonium Chloride	No Effect
Ammonium Hydroxide	Moderate Effect
Ammonium Nitrate	No Effect
Ammonium Persulfate	No Effect

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Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- Moderate Effect
Amyl Chloride ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aniline Oil ---------- **Severe Effect**
Antimony Trichloride ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Arochlor 1248 ---------- **Severe Effect**
Aromatic Hydrocarbons ---------- **Severe Effect**
Arsenic Acid ---------- Moderate Effect
Asphalt ---------- **Severe Effect**
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Sulfide ---------- No Effect
Beer ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- **Severe Effect**
Benzoic Acid ---------- **Severe Effect**
Borax ---------- Moderate Effect
Boric Acid ---------- No Effect
Bromine, Liquid ---------- **Severe Effect**
Butane ---------- **Severe Effect**
Butter ---------- **Severe Effect**
Buttermilk ---------- **Severe Effect**
Butyl Acetate ---------- **Severe Effect**
Butylene ---------- **Severe Effect**
Calcium Bisulfate ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect

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Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- Moderate Effect
Calcium Sulfate ---------- Moderate Effect
Cane Juice ---------- No Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Disulfide ---------- **Severe Effect**
Carbon Monoxide ---------- Moderate Effect
Carbon Tetrachloride ---------- **Severe Effect**
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorinated Glue ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorox ---------- **Severe Effect**
Chocolate Syrup ---------- **Severe Effect**
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- **Severe Effect**
Chromium Plating, Fluosilicate Bath 95 F ----- **Severe Effect**
Citric Acid ---------- No Effect
Coconut Oil ---------- **Severe Effect**
Cod Liver Oil ---------- **Severe Effect**
Coffee ---------- No Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- No Effect
Copper Sulfate, 5% ---------- Moderate Effect
Corn Oil ---------- **Severe Effect**
Cottonseed Oil ---------- **Severe Effect**
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**

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Detergent Solutions ---------- Moderate Effect
Dichlorethane ---------- **Severe Effect**
Diesel Fuel ---------- **Severe Effect**
Diesel Fuel Oil (2D,3D,4D,5D) ---------- **Severe Effect**
Diethylamine ---------- Moderate Effect
Diethylene Glycol ---------- No Effect
Diphenyl Oxide ---------- **Severe Effect**
Epsom Salts ---------- Moderate Effect
Ethane ---------- **Severe Effect**
Ethanolamine ---------- Moderate Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Chloride ---------- No Effect
Ethylene Chloride ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- **Severe Effect**
Fatty Acids ---------- Moderate Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Formaldehyde ---------- Moderate Effect
Formic Acid ---------- Moderate Effect
Freon 11 ---------- **Severe Effect**
Freon 113 ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Freon 22 ---------- No Effect
Freon T.F. ---------- **Severe Effect**
Fuel Oil ---------- **Severe Effect**
Fuel Oil (1,2,3,5A,5B,6) ---------- **Severe Effect**
Furan Resin ---------- **Severe Effect**
Furfural ---------- **Severe Effect**
Gelatin ---------- No Effect
Glucose ---------- No Effect

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Glycerine or Glycerol ---------- No Effect
Hexane ---------- **Severe Effect**
Hydraulic Oils (Petroleum) ---------- **Severe Effect**
Hydrazine ---------- Moderate Effect
Hydrobromic Acid ---------- No Effect
Hydrochloric Acid, 100% ---------- No Effect
Hydrochloric Acid, 20% ---------- Moderate Effect
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrocyanic Acid ---------- No Effect
Hydrocyanic Acid (Gas 10%) ---------- Moderate Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- Moderate Effect
Hydrofluosilicic Acid, 20% ---------- No Effect
Hydrogen Peroxide ---------- Moderate Effect
Hydrogen Peroxide, 10% ---------- Moderate Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Iodine ---------- **Severe Effect**
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Ether ---------- **Severe Effect**
Isotane ---------- **Severe Effect**
Jet Fuel (JP3,JP4,JP5) ---------- **Severe Effect**
Kerosene ---------- **Severe Effect**
Ketones ---------- Moderate Effect
Lacquers ---------- **Severe Effect**
Lactic Acid ---------- No Effect
Lard ---------- **Severe Effect**
Lead Acetate ---------- No Effect
Lead Sulfamate ---------- Moderate Effect
Ligroin ---------- **Severe Effect**
Linseed Oil ---------- **Severe Effect**
Lubricants ---------- **Severe Effect**
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- Moderate Effect
Magnesium Sulfate ---------- Moderate Effect

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Maleic Acid ---------- **Severe Effect**
Maleic Anhydride ---------- **Severe Effect**
Malic Acid ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercury ---------- No Effect
Methyl Acetate ---------- **Severe Effect**
Methyl Acrylate ---------- **Severe Effect**
Methyl Alcohol, 10% ---------- No Effect
Methyl Bromide ---------- **Severe Effect**
Methyl Cellosolve ---------- **Severe Effect**
Methyl Chloride ---------- **Severe Effect**
Methyl Dichloride ---------- **Severe Effect**
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methyl Methacrylate ---------- **Severe Effect**
Methylene Chloride ---------- **Severe Effect**
Milk ---------- No Effect
Mineral Oils ---------- **Severe Effect**
Naptha ---------- **Severe Effect**
Napthalene ---------- **Severe Effect**
Nickel Chloride ---------- No Effect
Nickel Sulfate ---------- Moderate Effect
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Oleic Acid ---------- **Severe Effect**
Oleum ---------- **Severe Effect**
Olive Oil ---------- **Severe Effect**
Oxalic Acid ---------- Moderate Effect
Peanut Oil ---------- **Severe Effect**
Penthane ---------- **Severe Effect**
Perchloroethylene ---------- **Severe Effect**
Petrolatum ---------- **Severe Effect**

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Phenol (Carbolic Acid) ---------- **Severe Effect**
Phenol, 10% ---------- Moderate Effect
Phosphoric Anhydride (Dry or Moist) ---------- No Effect
Phosphoric Anhydride (Molten) ---------- **Severe Effect**
Picric Acid ---------- No Effect
Pine Oil ---------- **Severe Effect**
Potash ---------- Minor Effect
Potassium Bicarbonate ---------- Minor Effect
Potassium Bromide ---------- Minor Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- No Effect
Potassium Chromate ---------- Minor Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide, 50% ---------- Moderate Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- Minor Effect
Potassium Sulfate ---------- Moderate Effect
Propane (Liquefied) ---------- **Severe Effect**
Pyridine ---------- **Severe Effect**
Rape-Seed Oil ---------- **Severe Effect**
Sea Water ---------- No Effect
Silicone ---------- No Effect
Silver Nitrate ---------- No Effect
Soaps ---------- Moderate Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- Minor Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- Minor Effect
Sodium Cyanide ---------- No Effect

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Sodium Fluoride ---------- **Severe Effect**
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 80% ---------- Minor Effect
Sodium Hypochlorite (to 20%) ---------- Moderate Effect
Sodium Hyposulfate ---------- Moderate Effect
Sodium Metaphosphate ---------- No Effect
Sodium Nitrate ---------- Moderate Effect
Sodium Perborate ---------- Moderate Effect
Sodium Peroxide ---------- Moderate Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- Moderate Effect
Sodium Sulfide ---------- Moderate Effect
Sodium Sulfite ---------- No Effect
Soy Sauce ---------- **Severe Effect**
Soybean Oil ---------- **Severe Effect**
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Stearic Acid ---------- Moderate Effect
Stoddard Solvent ---------- **Severe Effect**
Styrene ---------- **Severe Effect**
Sugar (Liquids) ---------- No Effect
Sulfur Chloride ---------- **Severe Effect**
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Trioxide ---------- Moderate Effect
Sulfuric Acid, 10% ---------- Moderate Effect
Sulfurous Acid ---------- Moderate Effect
Syrup ---------- No Effect
Tannic Acid ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrachloroethane ---------- **Severe Effect**
Tetrahydrofuran ---------- **Severe Effect**

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Toluene	**Severe Effect**
Trichloroethane	**Severe Effect**
Trichloroethylene	**Severe Effect**
Turbine Oil	**Severe Effect**
Turpentine	**Severe Effect**
Varnish	**Severe Effect**
Vegetable Juices	**Severe Effect**
Vinegar	Moderate Effect
Water Acid, Mine	Minor Effect
Water, Distilled	No Effect
Water, Fresh	No Effect
Water, Salt	No Effect
Whiskey	No Effect
Xylene	**Severe Effect**
Zinc Chloride	No Effect
Zinc Sulfate	Moderate Effect

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Rubber Latex Emulsions

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	No Effect

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Rubber Solvents

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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RYTON

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetamide	No Effect
Acetate Solvents	No Effect
Acetic Acid	No Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 95%	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetone	No Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Chloride	No Effect
Acetylene (Ethyne)	No Effect
Acrylonitrile	No Effect
Alcohol	No Effect
Alcohol, Amyl	No Effect
Alcohol, Butyl	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	No Effect
Aluminum Fluoride	No Effect
Aluminum Hydroxide	No Effect
Aluminum Sulfate	No Effect
Alums	No Effect
AMERSEP MP-7	No Effect
Amines	No Effect
Ammonia	No Effect
Ammonia, Anhydrous, Liquid	No Effect
Ammonia, Aqueous 30%	No Effect
Ammonium Carbonate	No Effect

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Ammonium Chloride ---------- No Effect
Ammonium Fluoride ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Chloride ---------- No Effect
Aniline ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Arsenic Acid ---------- No Effect
Asphalt ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride Dihydrate ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfide ---------- No Effect
Beer ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzene Sulfonic Acid ---------- No Effect
Benzoic Acid ---------- No Effect
Benzol ---------- No Effect
Benzyl Alcohol ---------- No Effect
Benzyl Chloride ---------- No Effect
Bismuth Carbonate ---------- No Effect
Black Liquor ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect
Bromine Water ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Butadiene ---------- No Effect
Butane ---------- No Effect
Butyl Acetate ---------- No Effect

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Butyl Alcohol ---------- No Effect
Butyl Amine ---------- No Effect
Butyl Ether ---------- No Effect
Butylene ---------- No Effect
Butyric Acid ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Sulfate ---------- No Effect
Carbolic Acid ---------- No Effect
Carbon Dioxide ---------- No Effect
Carbon Disulfide ---------- Moderate Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbon Tetrachloride ---------- No Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Caustic Liquid ---------- Moderate Effect
Caustic Soda ---------- Moderate Effect
Cellosolve ---------- No Effect
Chloral Hydrate ---------- No Effect
Chlorine ---------- **Severe Effect**
Chlorine Water ---------- Moderate Effect
Chlorine, Anhydrous Liquid ---------- Moderate Effect
Chlorine, Dry ---------- **Severe Effect**
Chlorine, Liquid, Anhydrous ---------- No Effect
Chlorine, Wet ---------- **Severe Effect**
Chloroacetic Acid ---------- No Effect
Chlorobenzene ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorox ---------- Moderate Effect
Chrome Alum ---------- No Effect

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Chromic Acid ---------- No Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- Minor Effect
Citric Acid ---------- No Effect
Citric Acid, Hot Conc. ---------- No Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoride ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Nitrate Hexahydrate ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Cottonseed Oil ---------- No Effect
Cresol ---------- No Effect
Cyclohexane ---------- No Effect
Cyclohexanol ---------- No Effect
Cyclohexanone ---------- No Effect
Cycolic Acid ---------- No Effect
Detergent Solutions ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Diesel Fuel ---------- No Effect
Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diethyl Ether ---------- No Effect
Diglycolic Acid ---------- No Effect
Diisobutylene ---------- No Effect
Dimethyl Phthalate ---------- No Effect
Dimethylamine ---------- No Effect
Ethanolamine ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acrylate ---------- Minor Effect
Ethyl Alcohol ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethylene Bromide ---------- Moderate Effect
Ethylene Chloride ---------- No Effect

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Ethylene Diamine ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- **Severe Effect**
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- No Effect
Formaldehyde, 40% ---------- No Effect
Formic Acid ---------- No Effect
Freon ---------- No Effect
Freon 11 ---------- No Effect
Freon 113 ---------- No Effect
Freon 12 ---------- No Effect
Freon 12,13,22,114,115 ---------- No Effect
Freon 22 ---------- No Effect
Freon T.F. ---------- No Effect
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Furan ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Gallic Acid ---------- No Effect
Gas, Natural ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Gasoline (Unleaded) ---------- No Effect
Gasoline, Refined ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Glycols ---------- No Effect

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Heptane ---------- No Effect
Hexane ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrocarbons, Pure ---------- No Effect
Hydrochloric Acid ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid 20% ---------- No Effect
Hydrochloric Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- **Severe Effect**
Hydrofluoric Acid ---------- No Effect
Hydrofluoric Acid, (Conc) ---------- No Effect
Hydrofluoric Acid, 100% ---------- Moderate Effect
Hydrofluoric Acid, 20% ---------- Moderate Effect
Hydrofluoric Acid, 50% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- Moderate Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- **Severe Effect**
Hydrogen Peroxide, 3% ---------- **Severe Effect**
Hydrogen Peroxide, 30% ---------- **Severe Effect**
Hydrogen Peroxide, 50% ---------- **Severe Effect**
Hydrogen Peroxide, 90% ---------- No Effect
Hydrogen Sulfide ---------- No Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Iodine ---------- Minor Effect
Isobutyl Alcohol ---------- No Effect
Isooctane ---------- No Effect
Isopar G ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Jet Fuels (JP1 to JP6) ---------- No Effect
Kerosene ---------- Minor Effect
Ketones ---------- No Effect
Lactic Acid ---------- No Effect

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Lactic Acid, 25% ---------- No Effect
Lauric Acid ---------- No Effect
Lead Acetate ---------- No Effect
Linoleic Acid ---------- No Effect
Linseed Oil ---------- No Effect
Lubricants ---------- No Effect
Lubricating Oils ---------- No Effect
Lye ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Sulfate ---------- No Effect
Maleic Acid ---------- No Effect
Malic Acid ---------- No Effect
Mercuric Chloride ---------- No Effect
Mercury ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Ethyl Ketone ---------- Moderate Effect
Methyl Isobutyl Ketone ---------- No Effect
Methylene Chloride ---------- No Effect
Mineral Oils ---------- Moderate Effect
Mixed Acids ---------- No Effect
Molasses ---------- No Effect
Monochlorobenzene ---------- No Effect
Monoethanolamine ---------- No Effect
N,N-Dimethyl Formamide ---------- No Effect
N,N-Dimethylaniline ---------- No Effect
n-Hexane ---------- No Effect
Naphtha, Petroleum ---------- No Effect
Naphthalene ---------- Moderate Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect

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Nickel Sulfate ---------- No Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid (Conc) ---------- **Severe Effect**
Nitric Acid, 10% ---------- **Severe Effect**
Nitric Acid, 20% ---------- **Severe Effect**
Nitric Acid, 25% ---------- **Severe Effect**
Nitric Acid, 35% ---------- **Severe Effect**
Nitric Acid, 50% ---------- **Severe Effect**
Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, 70% ---------- **Severe Effect**
Nitrobenzene ---------- Minor Effect
Nitromethane ---------- No Effect
o-Chlorophenol ---------- No Effect
Oil - No. 1 ASTM ---------- No Effect
Oil - No. 3 ASTM ---------- No Effect
Oleic Acid ---------- No Effect
Oleum ---------- **Severe Effect**
Oxalic Acid ---------- No Effect
Palmitic Acid ---------- No Effect
Perchloric Acid ---------- No Effect
Perchloric Acid, 10% ---------- No Effect
Perchloric Acid, 70% ---------- **Severe Effect**
Perchloroethylene ---------- No Effect
Phenol ---------- No Effect
Phenol (Carbolic Acid) ---------- No Effect
Phenol, 10% ---------- No Effect
Phosgene, Gas ---------- No Effect
Phosphoric Acid ---------- No Effect
Phosphoric Acid (Conc) ---------- No Effect
Phosphoric Acid (Crude) ---------- No Effect
Phosphoric Acid, 10% ---------- **Severe Effect**
Phosphoric Acid, 20% ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphorus Trichloride ---------- **Severe Effect**
Photographic Solutions ---------- No Effect
Picric Acid ---------- No Effect

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Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- Moderate Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Nitrate ---------- Moderate Effect
Potassium Permanganate ---------- No Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfide ---------- No Effect
Propyl Alcohol ---------- No Effect
Propylene Glycol ---------- No Effect
Pyridine ---------- No Effect
Pyroligneous Acid ---------- No Effect
Saline Solution - All Conc. ---------- No Effect
Sea Water ---------- No Effect
Silicone Oils ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating Solutions ---------- No Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect

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Sodium Chloride ---------- No Effect
Sodium Chromate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Dichromate ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 50% ---------- Minor Effect
Sodium Hydroxide, 80% ---------- Minor Effect
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite (to 20%) ---------- Moderate Effect
Sodium Metaphosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Solvent - Toner Kerosene Base ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Starch ---------- No Effect
Steric Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Sulfur ---------- No Effect
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- Moderate Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Trioxide ---------- Moderate Effect
Sulfuric Acid ---------- **Severe Effect**
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 25% ---------- **Severe Effect**
Sulfuric Acid, 50% ---------- **Severe Effect**

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Sulfuric Acid, 60% ---------- **Severe Effect**
Sulfuric Acid, 75% ---------- No Effect
Sulfuric Acid, 95% ---------- **Severe Effect**
Sulfurous Acid ---------- No Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tartaric Acid ---------- No Effect
Tetraethyl Lead ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tetrahydronaphthalene ---------- No Effect
THIO-RED ---------- No Effect
Toluene ---------- **Severe Effect**
Tomato Pulp & Juice ---------- No Effect
Trichloroacetic Acid ---------- No Effect
Trichloroethane ---------- Moderate Effect
Trichloroethylene ---------- **Severe Effect**
Trichloropropane ---------- No Effect
Triethanolamine ---------- No Effect
Turpentine ---------- **Severe Effect**
Urea ---------- No Effect
Vegetable Oils ---------- No Effect
Vinegar ---------- No Effect
Water Acid, Mine ---------- Minor Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Glycol ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- No Effect
Wines ---------- No Effect
Xylene ---------- Minor Effect
Zinc Chloride ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Sulfate ---------- No Effect

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Rum

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Rust Inhibitors

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sal Ammoniac

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sal Soda

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Salad Dressing

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Salicylic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	No Effect
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Saline Solution - All Conc.

Material Compatibility

MATERIAL	EFFECT
ECTFE	No Effect
MONEL	No Effect
NORYL	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect

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Salt Water

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Santo Safe 300

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Sea Water

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Sesame Seed Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Sewage

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Shellac

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Shellac (Bleached)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Shellac (Orange)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Silicate Esters

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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SILICON

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	Moderate Effect
Acetone	Minor Effect
Acetylene (Ethyne)	Moderate Effect
Alcohol, Amyl	**Severe Effect**
Alcohol, Butyl	**Severe Effect**
Alcohol, Ethyl	Minor Effect
Alcohol, Hexyl	**Severe Effect**
Alcohol, Isobutyl	Minor Effect
Alcohol, Isopropyl	Moderate Effect
Alcohol, Propyl	Minor Effect
Aluminum Chloride	Moderate Effect
Aluminum Fluoride	Moderate Effect
Amines	Moderate Effect
Ammonia, Anhydrous, Liquid	Minor Effect
Ammonia, Liquids	Minor Effect
Ammonium Carbonate	Moderate Effect
Ammonium Casenite	No Effect
Ammonium Chloride	Moderate Effect
Ammonium Hydroxide	Minor Effect
Ammonium Nitrate	Moderate Effect
Ammonium Phosphate, Di-Basic	Minor Effect
Ammonium Phosphate, Monobasic	Minor Effect
Ammonium Phosphate, Tri-Basic	Minor Effect
Ammonium Sulfate	Minor Effect
Amyl Acetate	**Severe Effect**
Amyl Alcohol	**Severe Effect**
Aniline	Moderate Effect
Aqua Regia	**Severe Effect**
Asphalt	Moderate Effect
Barium Chloride	Minor Effect

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Barium Hydroxide ---------- Moderate Effect
Barium Sulfate ---------- **Severe Effect**
Barium Sulfide ---------- Moderate Effect
Beer ---------- Moderate Effect
Benzaldehyde ---------- Minor Effect
Borax ---------- Moderate Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ **Severe Effect**
Brass Plating, Reg Brass Bath 100 F ---------- **Severe Effect**
Bromine, Liquid ---------- **Severe Effect**
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- **Severe Effect**
Bronze Plating, Copper-Tin Bronze Bath 160 F - **Severe Effect**
Butane ---------- **Severe Effect**
Butyl Acetate ---------- **Severe Effect**
Calcium Bisulfate ---------- Moderate Effect
Calcium Chloride ---------- Minor Effect
Calcium Hydroxide ---------- Moderate Effect
Calcium Hypochlorite ---------- Moderate Effect
Carbon Monoxide ---------- Minor Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbonic Acid ---------- Minor Effect
Chlorine Water ---------- Moderate Effect
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chromic Acid, 5% ---------- Moderate Effect
Citric Acid ---------- Moderate Effect
Citric Oils ---------- Moderate Effect
Copper Sulfate, 5% ---------- Moderate Effect
Cresol ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Diethylene Glycol ---------- Moderate Effect
Ethanolamine ---------- Moderate Effect
Ethyl Acetate ---------- Moderate Effect
Ethyl Chloride ---------- **Severe Effect**
Ethylene Chloride ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**

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Ethylene Glycol ---------- Moderate Effect
Ethylene Oxide ---------- **Severe Effect**
Fatty Acids ---------- Moderate Effect
Ferric Chloride ---------- Moderate Effect
Ferric Nitrate ---------- **Severe Effect**
Ferric Sulfate ---------- Moderate Effect
Ferrous Chloride ---------- Moderate Effect
Formaldehyde ---------- Minor Effect
Formaldehyde, 40% ---------- Minor Effect
Formic Acid ---------- Moderate Effect
Freon 11 ---------- **Severe Effect**
Freon 113 ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Freon 22 ---------- **Severe Effect**
Freon T.F. ---------- **Severe Effect**
Fuel Oil ---------- Moderate Effect
Furfural ---------- **Severe Effect**
Glucose ---------- Minor Effect
Glycerine or Glycerol ---------- Minor Effect
Hexane ---------- Minor Effect
Hydraulic Oils (Synthetic) ---------- **Severe Effect**
Hydrazine ---------- **Severe Effect**
Hydrobromic Acid ---------- **Severe Effect**
Hydrochloric Acid, 37% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrogen Peroxide ---------- Moderate Effect
Jet Fuel (JP3,JP4,JP5) ---------- **Severe Effect**
Kerosene ---------- **Severe Effect**
Lard ---------- Moderate Effect
Lead Sulfamate ---------- Moderate Effect
Lime ---------- Moderate Effect
Lubricants ---------- Moderate Effect
Magnesium Chloride ---------- No Effect
Methyl Acetate ---------- **Severe Effect**
Methyl Chloride ---------- **Severe Effect**

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Methyl Ethyl Ketone ---------- Moderate Effect
Methyl Isobutyl Ketone ---------- Moderate Effect
Methyl Isopropyl Ketone ---------- Minor Effect
Milk ---------- Minor Effect
Mustard ---------- Moderate Effect
Naptha ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Oleic Acid ---------- **Severe Effect**
Oleum ---------- **Severe Effect**
Oleum, 25% ---------- **Severe Effect**
Olive Oil ---------- Moderate Effect
Oxalic Acid ---------- Moderate Effect
Perchloroethylene ---------- **Severe Effect**
Picric Acid ---------- **Severe Effect**
Plating Solutions, Antimony ---------- **Severe Effect**
Plating Solutions, Arsenic ---------- **Severe Effect**
Potassium Hydroxide, 50% ---------- Moderate Effect
Potassium Sulfate ---------- Moderate Effect
Propane (Liquefied) ---------- **Severe Effect**
Sea Water ---------- Minor Effect
Silicone ---------- Minor Effect
Soaps ---------- Minor Effect
Sodium Bicarbonate ---------- Moderate Effect
Sodium Bisulfate ---------- Moderate Effect
Sodium Bisulfite ---------- Moderate Effect
Sodium Borate ---------- Minor Effect
Sodium Chloride ---------- Moderate Effect
Sodium Cyanide ---------- **Severe Effect**
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- **Severe Effect**
Sodium Hydroxide, 50% ---------- **Severe Effect**
Sodium Hydroxide, 80% ---------- **Severe Effect**
Sodium Hypochlorite ---------- Moderate Effect
Sodium Hypochlorite (to 20%) ---------- **Severe Effect**
Sodium Metasilicate ---------- **Severe Effect**
Sodium Nitrate ---------- **Severe Effect**

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Sodium Perborate ---------- **Severe Effect**
Sodium Peroxide ---------- **Severe Effect**
Stannic Chloride ---------- **Severe Effect**
Stannous Chloride ---------- **Severe Effect**
Stearic Acid ---------- **Severe Effect**
Stoddard Solvent ---------- **Severe Effect**
Styrene ---------- **Severe Effect**
Sulfur Dioxide ---------- Moderate Effect
Sulfurous Acid ---------- **Severe Effect**
Tannic Acid ---------- Moderate Effect
Tartaric Acid ---------- Moderate Effect
Toluene ---------- **Severe Effect**
Trichloroethane ---------- **Severe Effect**
Trichloroethylene ---------- **Severe Effect**
Triethanolamine ---------- **Severe Effect**
Varnish ---------- Moderate Effect
Vegetable Juices ---------- Minor Effect
Whiskey ---------- Minor Effect
Xylene ---------- **Severe Effect**

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Silicon Tetrachloride Wet

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
TEFLON	No Effect

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SILICONE

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	**Severe Effect**
Acetic Acid, 5%	Moderate Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Acetyl Chloride	No Effect
Acetylene (Ethyne)	Moderate Effect
Alcohol, Amyl	**Severe Effect**
Alcohol, Benzyl	Moderate Effect
Alcohol, Butyl	Moderate Effect
Alcohol, Ethyl	No Effect
Alcohol, Methyl	No Effect
AMERSEP MP-7	No Effect
Amines	**Severe Effect**
Ammonia, Anhydrous, Liquid	**Severe Effect**
Ammonium Chloride	Minor Effect
Ammonium Hydroxide	No Effect
Ammonium Nitrate	No Effect
Ammonium Sulfate	Minor Effect
Amyl Acetate	**Severe Effect**
Amyl Chloride	Moderate Effect
Aniline	No Effect
Arsenic Acid	No Effect
Barium Chloride	No Effect
Barium Hydroxide	No Effect
Barium Sulfate	No Effect
Barium Sulfide	No Effect
Beer	No Effect
Beet Sugar Liquors	No Effect
Benzaldehyde	**Severe Effect**
Benzene	**Severe Effect**
Benzoic Acid	Minor Effect

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Black Liquor ---------- Minor Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect
Bromine Water ---------- Moderate Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- Moderate Effect
Calcium Nitrate ---------- No Effect
Carbon Disulfide ---------- No Effect
Carbon Tetrachloride ---------- Moderate Effect
Carbonic Acid ---------- No Effect
Castor Oil ---------- No Effect
Caustic Soda ---------- **Severe Effect**
Chloroacetic Acid ---------- **Severe Effect**
Chlorobenzene ---------- Minor Effect
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chromic Acid, 10% ---------- **Severe Effect**
Chromic Acid, 30% ---------- **Severe Effect**
Chromic Acid, 50% ---------- **Severe Effect**
Citric Acid ---------- No Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Sulfate ---------- No Effect
Corn Oil ---------- No Effect
Cottonseed Oil ---------- No Effect
Cresylic Acid ---------- Moderate Effect
Cyclohexanol ---------- No Effect
Diethylamine ---------- **Severe Effect**

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Diethylene Glycol ---------- No Effect
Dinitrotoluene ---------- **Severe Effect**
Dioctylphthalate ---------- Moderate Effect
Diphenyl Oxide ---------- Moderate Effect
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- Moderate Effect
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- No Effect
Ethylene Oxide ---------- **Severe Effect**
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Freon 12 ---------- **Severe Effect**
Freon 12,13,22,114,115 ---------- **Severe Effect**
Fuel Oil ---------- No Effect
Gas, Manufactured ---------- No Effect
Gasoline, Refined ---------- **Severe Effect**
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Heptane ---------- **Severe Effect**
Hexane ---------- No Effect
Hydrazine ---------- **Severe Effect**
Hydrobomic Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- Moderate Effect
Hydrocyanic Acid ---------- Moderate Effect
Hydrofluoric Acid, 50% ---------- **Severe Effect**
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Iodine ---------- No Effect
Kerosene ---------- No Effect
Lactic Acid, 25% ---------- Moderate Effect
Lead Acetate ---------- **Severe Effect**
Linseed Oil ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Sulfate ---------- No Effect

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Methyl Chloride ---------- Moderate Effect
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Milk ---------- No Effect
Mineral Oils ---------- No Effect
Naphtha, Petroleum ---------- Moderate Effect
Naphthalene ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 68% ---------- No Effect
Nitrobenzene ---------- **Severe Effect**
Olive Oil ---------- No Effect
Oxalic Acid ---------- No Effect
Perchloroethylene ---------- Moderate Effect
Phenol ---------- Moderate Effect
Phosphoric Acid, 25% ---------- Moderate Effect
Phosphoric Acid, 50% ---------- **Severe Effect**
Phosphorus Trichloride ---------- No Effect
Picric Acid ---------- Moderate Effect
Potassium Chloride ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Sulfate ---------- No Effect
Propylene Dichloride ---------- **Severe Effect**
Sea Water ---------- No Effect
Silver Nitrate ---------- No Effect
Sodium Acetate ---------- **Severe Effect**
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Hydroxide ---------- No Effect

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Sodium Hypochlorite ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Thiosulfate ---------- No Effect
SP-90X ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Sulfur ---------- No Effect
Sulfur Dioxide, Dry ---------- Moderate Effect
Sulfur Dioxide, Wet ---------- Moderate Effect
Sulfur Trioxide ---------- Moderate Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 98.5% ---------- **Severe Effect**
Tartaric Acid ---------- No Effect
Tetraethyl Lead ---------- **Severe Effect**
THIO-RED ---------- No Effect
Toluene ---------- Moderate Effect
Trichloroethylene ---------- **Severe Effect**
Triethanolamine ---------- **Severe Effect**
Turpentine ---------- Moderate Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Salt ---------- No Effect
Whiskey ---------- No Effect
Wines ---------- No Effect
Xylene ---------- Moderate Effect
Zinc Chloride ---------- No Effect
Zinc Sulfate ---------- No Effect

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Silicone

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
RUBBER (Natural)	No Effect
SILICON	Minor Effect
VITON	No Effect

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Silicone Greases

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Silicone Oils

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	Minor Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	No Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	Moderate Effect
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
RYTON	No Effect
TEFLON	No Effect

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VITON ---------- Minor Effect

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Silver Bromide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
EPOXY	No Effect
KALREZ	No Effect
NORYL	No Effect
POLYACETAL	Moderate Effect
TEFLON	No Effect

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Silver Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
KALREZ	No Effect
TEFLON	No Effect

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Silver Cyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Silver Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Silver Plating 80-120 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	Minor Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Silver Plating Solutions

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
HASTELLOY C	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect

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Skelly, Solvent B,C,E

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
VITON	No Effect

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Skydrol 500

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	**Severe Effect**

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Skydrol 7000

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	Minor Effect

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Skydrol Hydraulic Fluid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Soap Solutions

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Soaps

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	Minor Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect

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VINYL ---------- No Effect
VITON ---------- No Effect

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Soda Ash

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- **Severe Effect**

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Sodium Acid Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Aluminate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
RUBBER (Natural)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	Minor Effect
VITON	No Effect

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Sodium Bicarbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect

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NEOPRENE ---------- No Effect
NORPRENE ---------- No Effect
NORYL ---------- No Effect
NYLON (Polyamide) ---------- Minor Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Sodium Bichromate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Sodium Bisulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Minor Effect
NEOPRENE	No Effect

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NORPRENE ---------- No Effect
NORYL ---------- No Effect
NYLON (Polyamide) ---------- Moderate Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- Minor Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Sodium Bisulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Sodium Borate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BUNA	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	No Effect
CAST IRON	Moderate Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Moderate Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICON	Minor Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	No Effect

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VITON ---------- No Effect

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Sodium Bromide

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Moderate Effect
COPPER	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Sodium Carbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	No Effect

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NORPRENE ---------- No Effect
NORYL ---------- No Effect
NYLON (Polyamide) ---------- Minor Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- No Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- Moderate Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Sodium Chlorate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect

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PHENOLIC ---------- No Effect
POLYACETAL ---------- **Severe Effect**
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- Minor Effect

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Sodium Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Minor Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Sodium Chloride, 2% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Chloride, 5% @ 150 F

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
BRASS	**Severe Effect**
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Chloride, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Chloride, Saturated Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Chloride, Saturated Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
TEFLON	No Effect

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Sodium Chromate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	Minor Effect
COPPER	Minor Effect
EPOXY	Moderate Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Sodium Citrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Cyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	**Severe Effect**
NEOPRENE	No Effect

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NORPRENE ---------- No Effect
NORYL ---------- No Effect
NYLON (Polyamide) ---------- Moderate Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- **Severe Effect**
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- Minor Effect

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Sodium Dichromate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Ferrocyanide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
HYPALON	No Effect
KALREZ	No Effect
NORPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Sodium Fluoride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	Moderate Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	**Severe Effect**
VINYL	No Effect
VITON	Moderate Effect

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Sodium Fluoride, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect

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Sodium Hexametaphosphate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Moderate Effect
BUNA	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Hydrosulfide

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Hydrosulfite

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST BRONZE	Moderate Effect
CERAMIC	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	Moderate Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
TYGON (E-3606)	No Effect
VITON	Minor Effect

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Sodium Hydroxide

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	**Severe Effect**
CERAMIC BARIUM FERRITE	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	Minor Effect
NEOPRENE	Minor Effect
NORPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect

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PHENOLIC ---------- Moderate Effect
POLYACETAL ---------- **Severe Effect**
POLYCARBONATE (LEXAN) ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- Minor Effect
PVC ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- **Severe Effect**
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Sodium Hydroxide, 20%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	Moderate Effect
CAST BRONZE	Moderate Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	**Severe Effect**
CYCOLAC (ABS)	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Sodium Hydroxide, 20% (Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Hydroxide, 20% Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Sodium Hydroxide, 3 Molar

Material Compatibility

MATERIAL	EFFECT
BRASS	**Severe Effect**
BUNA	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Sodium Hydroxide, 50%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	**Severe Effect**
CYCOLAC (ABS)	Moderate Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	Minor Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Sodium Hydroxide, 50% Solution (Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Sodium Hydroxide, 70% (Cold)

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Sodium Hydroxide, 80%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
CERAMAGNET "A"	No Effect
CERAMIC	**Severe Effect**
CYCOLAC (ABS)	Moderate Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	Moderate Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Minor Effect
RYTON	Minor Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	Minor Effect

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Sodium Hydroxide, 80% Solution (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	**Severe Effect**
FLOURAZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Sodium Hypochlorite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	**Severe Effect**
E.P.D.M.	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	**Severe Effect**
NEOPRENE	Minor Effect
NEOPRENE	No Effect
NORPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
PHENOLIC	No Effect

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POLYCARBONATE (LEXAN) ---------- **Severe Effect**
POLYETHYLENE ---------- No Effect
POLYPROPYLENE ---------- Moderate Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
RYTON ---------- **Severe Effect**
SILICON ---------- Moderate Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- **Severe Effect**
VITON ---------- Minor Effect

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Sodium Hypochlorite (to 20%)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Moderate Effect
440 STAINLESS STEEL	Moderate Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMAGNET "A"	Minor Effect
CERAMIC	No Effect
EPOXY	Minor Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	Moderate Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Sodium Hypochlorite, 20%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Hypochlorite, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Hyposulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
EPOXY	Moderate Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
RUBBER (Natural)	Moderate Effect
TEFLON	No Effect

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Sodium Iodide

Material Compatibility

MATERIAL	EFFECT
BUNA	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
HYPALON	No Effect
NORYL	Minor Effect
PHENOLIC	Moderate Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Sodium Metaphosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	**Severe Effect**
PVC	Minor Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICONE	No Effect

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TEFLON ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Sodium Metasilicate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
POLYACETAL	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sodium Metasilicate (Cold)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
PVC	No Effect
TEFLON	No Effect

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Sodium Metasilicate (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
FLOURAZ	**Severe Effect**
KALREZ	No Effect
PVC	No Effect
TEFLON	No Effect

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Sodium Monophosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
COPPER	**Severe Effect**
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Sodium Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Moderate Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect

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PHENOLIC ---------- No Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Moderate Effect

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Sodium Nitrate - Fused

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
FLOURAZ	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect

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Sodium Nitrite

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sodium Orthosilicate

Material Compatibility

MATERIAL	EFFECT
BRASS	**Severe Effect**
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Sodium Perborate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
SILICON	**Severe Effect**

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TEFLON ---------- No Effect
VITON ---------- No Effect

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Sodium Peroxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	**Severe Effect**
EPT	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
MONEL	Moderate Effect
NEOPRENE	Minor Effect
NORYL	Minor Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	Minor Effect

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POLYACETAL ---------- **Severe Effect**
POLYETHYLENE ---------- Minor Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- **Severe Effect**

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Sodium Phosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	No Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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VINYL ---------- No Effect
VITON ---------- Minor Effect

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Sodium Phosphate (Dibasic)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Phosphate (Mono)

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Phosphate (Tribasic)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Polyphosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Sodium Pyrophosphate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
KALREZ	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Sodium Resinate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Sodium Salicylate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
KALREZ	No Effect
TEFLON	No Effect

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Sodium Salts

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Sodium Silicate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BRASS	Moderate Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	No Effect
CERAMIC	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
POLYPROPYLENE	No Effect
POLYSULFONE	Moderate Effect
PVC	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Sodium Silicate (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Silicate (Water Glass)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	Moderate Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	Minor Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect

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NYLON (Polyamide) ---------- Minor Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Sodium Sulfide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect

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PHENOLIC ---------- No Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Sodium Sulfide - Saturated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Sulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Sodium Sulfite, 10% Solution @ 150 F

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Sulfite, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Sulphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Sulphide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Tetra Borate (Borax)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
COPPER	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
NYLON (Polyamide)	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Tetraborate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
EPOXY	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	Moderate Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Sodium Tetraphosphate

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Sodium Thiosulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC ALUMINA	No Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	No Effect
POLYETHYLENE	No Effect

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POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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Sodium Triphosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Soft Drink Syrups

Material Compatibility

MATERIAL	EFFECT
ECTFE	No Effect
MONEL	**Severe Effect**
NORYL	No Effect
POLYPROPYLENE	No Effect

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Solvent - Toner Kerosene Base

Material Compatibility

MATERIAL	EFFECT
ECTFE	No Effect
MONEL	No Effect
NORYL	**Severe Effect**
POLYPROPYLENE	No Effect
RYTON	No Effect

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Sorghum

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	No Effect

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Sorghum

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Sour Crude Oil

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Sour Natural Gas

Material Compatibility

MATERIAL	EFFECT
FLOURAZ	No Effect

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Soy Sauce

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Soybean Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Minor Effect
CAST IRON	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	Moderate Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect
POLYACETAL	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect

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RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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SP-90X

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NYLON (Polyamide)	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect

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VINYL ---------- No Effect
VITON ---------- No Effect

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Sperm Oil (Whale Oil)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Spry

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	Minor Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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SR-10 Fuel

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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SR-6 Fuel

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Stannic Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	Moderate Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	Minor Effect
PHENOLIC	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- Moderate Effect
VITON ---------- Minor Effect

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Stannic Chloride, 50%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Stannic Fluoborate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
NORYL	No Effect
POLYACETAL	Moderate Effect
VITON	No Effect

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Stannous Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Moderate Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect

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SILICON ---------- **Severe Effect**
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- No Effect
VITON ---------- Minor Effect

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Stannous Chloride, 15%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Starch

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Moderate Effect

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Steam, Above 350 F

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	**Severe Effect**
VITON	**Severe Effect**

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Steam, Below 350 F

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Stearic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Minor Effect
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
PVC	No Effect

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PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- Moderate Effect
SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- No Effect

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Stearic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	Moderate Effect
CAST IRON	Moderate Effect
E.P.D.M.	Minor Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
NEOPRENE	Minor Effect
NORPRENE	Minor Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Moderate Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Stoddard Solvent

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect

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RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- No Effect
SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VITON ---------- No Effect

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Styrene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
SILICON	**Severe Effect**
TEFLON	No Effect

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VITON ---------- Minor Effect

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Sucrose Solution

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sugar (Liquids)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RUBBER (Natural)	No Effect
TEFLON	No Effect

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VITON ---------- No Effect

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Sulfamic Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	No Effect
BUNA	Minor Effect
CAST IRON	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect

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Sulfate Black Liquor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sulfate Green Liquor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Sulfate Liquors

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Moderate Effect
ALUMINUM	Minor Effect
CARBON	No Effect
CAST BRONZE	Moderate Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect

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Sulfite Liquors

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Sulfur

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Moderate Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	**Severe Effect**

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Sulfur (Molten)

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sulfur Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	Moderate Effect
CERAMIC ALUMINA	Moderate Effect
CERAMIC BARIUM FERRITE	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Moderate Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
MONEL	**Severe Effect**
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**

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POLYETHYLENE ---------- No Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Moderate Effect
VITON ---------- No Effect

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Sulfur Containing Oil (1.5%S)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect

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Sulfur Dioxide

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	Moderate Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	Minor Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
MONEL	Minor Effect
MONEL	No Effect
NEOPRENE	Minor Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	No Effect
POLYACETAL	Minor Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
SILICON	Moderate Effect
TEFLON	No Effect

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TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VITON ---------- **Severe Effect**

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Sulfur Dioxide, Dry

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
EPOXY	**Severe Effect**
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Moderate Effect
POLYPROPYLENE	No Effect

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POLYSULFONE ---------- No Effect
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Moderate Effect
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
VINYL ---------- No Effect
VITON ---------- **Severe Effect**

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Sulfur Dioxide, Liquefied Under Pressure

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Sulfur Dioxide, Wet

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
COPPER	Minor Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NORPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Moderate Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICONE	Moderate Effect
TEFLON	No Effect
VINYL	No Effect
VITON	**Severe Effect**

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Sulfur Hexafluoride

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	Minor Effect
E.P.D.M.	No Effect
KALREZ	Minor Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Sulfur Trioxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Moderate Effect
ALUMINUM	Minor Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	Moderate Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
MONEL	Moderate Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Moderate Effect

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PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	Moderate Effect
SILICONE	Moderate Effect
TEFLON	Minor Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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Sulfur Trioxide (Dry)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ALUMINUM	No Effect
BRASS	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect

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Sulfuric Acid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
BUNA	**Severe Effect**
CERAMIC BARIUM FERRITE	Moderate Effect
ECTFE	No Effect
EPOXY	Moderate Effect
EPT	Moderate Effect
HYPALON	Moderate Effect
MONEL	**Severe Effect**
NORYL	Moderate Effect
PHENOLIC	Minor Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Moderate Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Sulfuric Acid (Aerated) No Velocity

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**

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Sulfuric Acid (Air Free) No Velocity

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**

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Sulfuric Acid (Conc)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Sulfuric Acid (Fuming)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Sulfuric Acid, 10%

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
440 STAINLESS STEEL	Moderate Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect

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VINYL ---------- No Effect
VITON ---------- No Effect

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Sulfuric Acid, 25%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sulfuric Acid, 3 Molar

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sulfuric Acid, 50%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sulfuric Acid, 60%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	No Effect
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sulfuric Acid, 75%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	Moderate Effect
E.P.D.M.	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	Minor Effect
HYPALON	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	Minor Effect
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	Moderate Effect
POLYSULFONE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Sulfuric Acid, 85%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
VITON	No Effect

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Sulfuric Acid, 95%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CAST IRON	Minor Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sulfuric Acid, 98.5%

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
HASTELLOY C	Minor Effect
HYPALON	**Severe Effect**
NORPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	**Severe Effect**
PVC	No Effect
SILICONE	**Severe Effect**
TEFLON	Minor Effect
VINYL	**Severe Effect**
VITON	No Effect

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Sulfurous Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Moderate Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	Moderate Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	Moderate Effect
COPPER	**Severe Effect**
E.P.D.M.	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
MONEL	**Severe Effect**
NEOPRENE	**Severe Effect**
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
PHENOLIC	Moderate Effect
POLYACETAL	**Severe Effect**

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POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICON	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	**Severe Effect**
VITON	Moderate Effect

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Sulfuryl Chloride

Material Compatibility

MATERIAL	EFFECT
CERAMIC	No Effect
EPOXY	No Effect
PVC	No Effect
TEFLON	No Effect

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Sulphuric Acid, 10% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Minor Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYCARBONATE (LEXAN)	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Sulphuric Acid, 10% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Sulphuric Acid, 5%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Sulphuric Acid, 5% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Sulphuric Acid, 50% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
TEFLON	No Effect

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Sulphuric Acid, Concentrated Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Sulphuric Acid, Concentrated Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Sulphuric Acid, Concentrated Solution @ 300%

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**

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Sulphuric Acid, Fuming

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**

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Sulphurous Acid - Saturated

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
COPPER	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	**Severe Effect**
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	Minor Effect
TEFLON	No Effect

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Sulphurous Spray

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**

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Sunsafe (Fire Resist. Hydr. Fluid)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Syrup

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RUBBER (Natural)	No Effect
TEFLON	No Effect
VITON	No Effect

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Talc Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
TEFLON	No Effect

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Talc Slurry

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Tall Oil (Liquid Rosin)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYPROPYLENE	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Tallow

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Moderate Effect
POLYPROPYLENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Tallow, Molten

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
BUNA	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	No Effect

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Tannic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	**Severe Effect**
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	Minor Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Minor Effect
CAST IRON	Moderate Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	Minor Effect
HYPALON	Moderate Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYACETAL	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Tannin

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Tanning Liquors

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	Moderate Effect
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORPRENE	Minor Effect
POLYACETAL	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	No Effect

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Tanning Oil

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
VITON	No Effect

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Tar and Tar Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Tar, Bituminous

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Turpenes

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	Moderate Effect
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Tartaric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
EPOXY	No Effect
HASTELLOY C	Minor Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	No Effect
NORPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect

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PVDF 150 DEGREES (KYNAR)	Minor Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICON	Moderate Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VITON	No Effect

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TEFLON (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
1-Chloronaphthalene	No Effect
1-Nitropropane	No Effect
Acetaldehyde	Minor Effect
Acetamide	No Effect
Acetate Solvents	No Effect
Acetic Acid	No Effect
Acetic Acid 100% Boiling	No Effect
Acetic Acid Vapors - 100% (Hot)	No Effect
Acetic Acid, 100% Solution	No Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 30%	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 50%	No Effect
Acetic Acid, 50% Boiling	No Effect
Acetic Acid, 80%	No Effect
Acetic Acid, 80% Boiling	No Effect
Acetic Acid, Crude	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetic Anhyrdide (Boiling)	No Effect
Acetone	No Effect
Acetone Cyanohydrin	No Effect
Acetonitrile (Methyl Cyanide)	No Effect
Acetophenone	No Effect
Acetyl Acetone	No Effect
Acetyl Chloride	No Effect
Acetyl Salicylic Acid	No Effect
Acetylene (Ethyne)	No Effect
Acetylene Tetrabromide	No Effect
Acid (Mild)	No Effect
Acid Mine Water	No Effect

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Acids (Concentrated) ---------- No Effect
Acrolein (Acrylaldehyde) ---------- No Effect
Acrylonitrile ---------- No Effect
Adipic Acid ---------- No Effect
Aero Lubriplate ---------- No Effect
Aerosafe 2300 ---------- No Effect
Aerosafe 2300W ---------- No Effect
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- No Effect
Alcohol, Amyl ---------- No Effect
Alcohol, Benzyl ---------- No Effect
Alcohol, Butyl ---------- No Effect
Alcohol, Diacetone ---------- No Effect
Alcohol, Ethyl ---------- No Effect
Alcohol, Hexyl ---------- No Effect
Alcohol, Isobutyl ---------- No Effect
Alcohol, Isopropyl ---------- No Effect
Alcohol, Methyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Alkazene ---------- No Effect
Allyl Alcohol ---------- No Effect
Allyl Bromide ---------- No Effect
Allyl Chloride ---------- No Effect
Almond Oil ---------- No Effect
Alum ---------- No Effect
Aluminum (Chrome 5% Sol.) ---------- No Effect
Aluminum Acetate ---------- No Effect
Aluminum Ammonium Sulfate ---------- No Effect
Aluminum Bromide ---------- No Effect

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Aluminum Chloride ---------- No Effect
Aluminum Fluoride ---------- No Effect
Aluminum Hydroxide ---------- No Effect
Aluminum Hydroxide - Saturated ---------- No Effect
Aluminum Nitrate ---------- No Effect
Aluminum Nitride ---------- No Effect
Aluminum Phosphate ---------- No Effect
Aluminum Potassium Sulfate ---------- No Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ No Effect
Aluminum Potassium Sulfate, 10% Boiling ------ No Effect
Aluminum Potassium Sulfate, 2% Solution ------ No Effect
Aluminum Potassium Sulfate, Saturated Boiling No Effect
Aluminum Sodium Sulfate ---------- No Effect
Aluminum Sulfate ---------- No Effect
Alums ---------- No Effect
AMERSEP MP-7 ---------- No Effect
Amines ---------- No Effect
Ammonia ---------- No Effect
Ammonia Gas, Cold ---------- No Effect
Ammonia Gas, Hot ---------- No Effect
Ammonia Liquors ---------- No Effect
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- No Effect
Ammonia, Liquids ---------- No Effect
Ammonia, Nitrate ---------- No Effect
Ammonium Acetate ---------- No Effect
Ammonium Bicarbonate ---------- No Effect
Ammonium Bifluoride, 10% ---------- No Effect
Ammonium Carbonate ---------- No Effect
Ammonium Casenite ---------- No Effect
Ammonium Chloride ---------- No Effect
Ammonium Chloride, 1% ---------- No Effect
Ammonium Chloride, 10% Solution Boiling ------ No Effect
Ammonium Chloride, 28% Solution Boiling ------ No Effect
Ammonium Chloride, 50% Solution Boiling ------ No Effect

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Ammonium Cupric Sulfate ---------- No Effect
Ammonium Dichromate ---------- No Effect
Ammonium Diphosphate ---------- No Effect
Ammonium Fluoride ---------- No Effect
Ammonium Hydroxide ---------- No Effect
Ammonium Hydroxide, 3 Molar ---------- No Effect
Ammonium Hydroxide, Concentrated ---------- No Effect
Ammonium Metaphosphate ---------- No Effect
Ammonium Monophosphate ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Oxalate ---------- No Effect
Ammonium Oxalate, 5% Sol. ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Persulfate, 10% ---------- No Effect
Ammonium Persulfate, 5% ---------- No Effect
Ammonium Phosphate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Sulfide ---------- No Effect
Ammonium Sulfite ---------- No Effect
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Sulphate 10% Boiling ---------- No Effect
Ammonium Sulphate Plus 5% Sulfuric Acid ------ No Effect
Ammonium Sulphate Saturated (Boiling) -------- No Effect
Ammonium Sulphite (Boiling) ---------- No Effect
Ammonium Thiocyanate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Ammonium Triphosphate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Amyl Borate ---------- No Effect
Amyl Chloride ---------- No Effect
Amyl Chloronaphthalene ---------- No Effect

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Amyl Naphthalene ---------- No Effect
Amyl Phenol ---------- No Effect
Anhydrous Ammonia ---------- No Effect
Aniline ---------- No Effect
Aniline Dyes ---------- No Effect
Aniline Hydrochloride ---------- No Effect
Aniline Oil ---------- No Effect
Animal Fats & Oils ---------- No Effect
Animal Gelatin ---------- No Effect
Anisole ---------- No Effect
Ansul Ether ---------- No Effect
Anthraquinone ---------- No Effect
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Pentachloride ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Ammonia ---------- No Effect
Aqua Regia ---------- **Severe Effect**
Argon ---------- No Effect
Arochlor 1248 ---------- No Effect
Aroclor ---------- No Effect
Aromatic Hydrocarbons ---------- No Effect
Aromatic Solvents ---------- No Effect
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- No Effect
Arsenious Acid ---------- No Effect
Ascorbic Acid ---------- No Effect
Askarel ---------- No Effect
Asphalt ---------- No Effect
Asphalt Topping ---------- No Effect
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- No Effect
ASTM, Red Motor Fuel C ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect

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ASTM, Ref #4 Oil ---------- No Effect
Automatic Brake Fluid ---------- No Effect
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Banana Oil ---------- No Effect
Barbeque Sauce ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Chloride Aqueous Solution (Hot) ------- No Effect
Barium Chloride Dihydrate ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- No Effect
Barium Fluoride ---------- No Effect
Barium Hydrate ---------- No Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Barium Sulfate Aqueous Solution (Hot) -------- No Effect
Barium Sulfide ---------- No Effect
Beef Extract ---------- No Effect
Beer ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzene Sulfonic Acid ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzoic Acid ---------- No Effect
Benzol ---------- No Effect
Benzoyl Chloride ---------- No Effect
Benzyl Acetate ---------- No Effect
Benzyl Alcohol ---------- No Effect

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Benzyl Benzoate ---------- No Effect
Benzyl Chloride ---------- No Effect
Benzyl Dichloride ---------- No Effect
Biphenyl ---------- No Effect
Bismuth Carbonate ---------- No Effect
Bismuth Subcarbonate ---------- No Effect
Black Liquor ---------- No Effect
Black Sulfate Liquor ---------- No Effect
Blast Furnace Gas ---------- No Effect
Bleach Solutions ---------- No Effect
Bleach, 12.5% Active Chlorine ---------- No Effect
Bleaching Powder (Wet) ---------- No Effect
Blood (Meat Juices-Cold) ---------- No Effect
Borax ---------- No Effect
Bordeaux Mixture ---------- No Effect
Boric Acid ---------- No Effect
Brake Fluid ---------- No Effect
Brake Fluid (Non-Petroleum) ---------- No Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Brewery Shop ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- No Effect
Bromic Acid ---------- No Effect
Bromine (Dry) ---------- No Effect
Bromine (Wet) ---------- No Effect
Bromine Pentafluoride ---------- **Severe Effect**
Bromine Trifluoride ---------- No Effect
Bromine Water ---------- No Effect
Bromine, Anhydrous ---------- No Effect
Bromine, Liquid ---------- No Effect
Bromobenzene ---------- No Effect
Bromochloromethane ---------- No Effect
Bromotoluene ---------- No Effect
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect

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Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Bronzing Liquid ---------- No Effect
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- No Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- No Effect
Butyl Acetyl Ricinoleate ---------- No Effect
Butyl Acrylate ---------- No Effect
Butyl Alcohol ---------- No Effect
Butyl Amine ---------- No Effect
Butyl Benzoate ---------- No Effect
Butyl Bromide ---------- No Effect
Butyl Butyrate ---------- No Effect
Butyl Carbitol ---------- No Effect
Butyl Cellosolve ---------- No Effect
Butyl Chloride ---------- No Effect
Butyl Ether ---------- No Effect
Butyl Oleate ---------- No Effect
Butyl Stearate ---------- No Effect
Butylene ---------- No Effect
Butyraldehyde ---------- No Effect
Butyric Acid ---------- No Effect
Butyric Anhydride ---------- No Effect
Butyronitrile ---------- No Effect
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- No Effect
Calcium Acetate Hydrate ---------- No Effect
Calcium Bisulfate ---------- No Effect

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Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Cyanide ---------- No Effect
Calcium Hydrosulfide ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hydroxide, 20% (Boiling) ---------- No Effect
Calcium Hydroxide, 50% (Boiling) ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Oxide ---------- No Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfate - Saturated ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Calcium Thiosulfate ---------- No Effect
Calgon ---------- No Effect
Caliche Liquors ---------- No Effect
Camphor ---------- No Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Capryl Alcohol ---------- No Effect
Caprylic Acid ---------- No Effect
Caprylic Acid (Caprillic Acid) ---------- No Effect
Carbamate ---------- No Effect
Carbitol ---------- No Effect
Carbolic Acid ---------- No Effect
Carbon Bisulfide ---------- No Effect
Carbon Dioxide ---------- No Effect
Carbon Dioxide, Wet ---------- No Effect
Carbon Disulfide ---------- No Effect
Carbon Monoxide ---------- No Effect

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Carbon Tetrachloride ---------- No Effect
Carbon Tetrachloride-Aqueous Solution 5%-10% - No Effect
Carbon Tetrachloride-Pure ---------- No Effect
Carbonate of Soda ---------- No Effect
Carbonated Beverages ---------- No Effect
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Casein ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Caustic Soda ---------- No Effect
Cellosolve ---------- No Effect
Cellulose Acetate ---------- No Effect
Cellulube Hydraulic Fluids ---------- No Effect
Cellulube Hydraulic Fluids (Phosphate Esters) No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- No Effect
Chloral Hydrate ---------- No Effect
Chlorate of Lime ---------- No Effect
Chlorextol ---------- No Effect
Chloric Acid ---------- No Effect
Chlorinated Lime ---------- No Effect
Chlorinated Lime, 35% (Bleach) ---------- No Effect
Chlorinated Solvents ---------- No Effect
Chlorinated Solvents, Dry ---------- No Effect
Chlorinated Solvents, Wet ---------- No Effect
Chlorinated Water, Saturate ---------- No Effect
Chlorine ---------- No Effect
Chlorine Dioxide ---------- No Effect
Chlorine Gas - 100 Degrees C ---------- No Effect
Chlorine Gas - Dry ---------- No Effect
Chlorine Gas - Moist ---------- No Effect
Chlorine Trifluoride ---------- No Effect
Chlorine Water ---------- No Effect
Chlorine, Anhydrous Liquid ---------- No Effect
Chlorine, Dry ---------- No Effect

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Chlorine, Liquid, Anhydrous ---------- Moderate Effect
Chlorine, Wet ---------- No Effect
Chloroacetic Acid ---------- No Effect
Chloroacetone ---------- No Effect
Chlorobenzene ---------- No Effect
Chlorobromomethane ---------- No Effect
Chlorobutadiene ---------- No Effect
Chloroform ---------- No Effect
Chloropicrin ---------- No Effect
Chlorosulfonic Acid ---------- No Effect
Chlorosulfonic Acid (Dry) ---------- No Effect
Chlorosulfonic Acid (Wet) ---------- No Effect
Chlorothene ---------- No Effect
Chlorotrifluoroethylene ---------- No Effect
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chrome Plating Solutions ---------- No Effect
Chromic Acid ---------- No Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect
Chromic Acid, 50% Solution (Hot) ---------- No Effect
Chromium Plating Bath ---------- No Effect
Chromium Plating, Barrel Chrome Bath 95 F ---- No Effect
Chromium Plating, Black Chrome Bath 115 F ---- No Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F No Effect
Chromium Plating, Fluoride Bath 130 F -------- No Effect
Chromium Plating, Fluosilicate Bath 95 F ----- No Effect
Chromium Sulfate (Basic) ---------- No Effect
Cider (Apple Juice) ---------- No Effect
Cinnamon Oil ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- No Effect
Citric Acid, 15% Solution ---------- No Effect

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Citric Acid, 15% Solution (Boiling) ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ----------- No Effect
Citric Acid, Concentrated (Boiling) ---------- No Effect
Citric Oils ---------------------------------- No Effect
Citrus Pectin Liquor ------------------------- No Effect
Clove Oil ------------------------------------ No Effect
Cobalt Chloride ------------------------------ No Effect
Coca Cola Syrup ------------------------------ No Effect
Coconut Oil ---------------------------------- No Effect
Cod Liver Oil -------------------------------- No Effect
Coffee --------------------------------------- No Effect
Coke Oven Gas -------------------------------- No Effect
Copal Varnish -------------------------------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Acetate ------------------------------- No Effect
Copper Acetate, Saturated Solution ----------- No Effect
Copper Chloride ------------------------------ No Effect
Copper Chloride, 1% -------------------------- No Effect
Copper Chloride, 5% Solution ----------------- No Effect
Copper Cyanide ------------------------------- No Effect
Copper Fluoborate ---------------------------- No Effect
Copper Fluoride ------------------------------ No Effect
Copper Fluoborate ---------------------------- No Effect
Copper Nitrate ------------------------------- No Effect
Copper Nitrate Hexahydrate ------------------- No Effect
Copper Nitrate, 1% & 5% ---------------------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Plating (Acid),
       Copper Fluoborate Bath 120 F ---------- No Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),
       Copper Strike Bath 120 F -------------- No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
       Rochelle Salt Bath 150 F -------------- No Effect

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Copper Sulfate	No Effect
Copper Sulfate, 10%	No Effect
Copper Sulfate, 5%	No Effect
Copper Sulfate, 50%	No Effect
Copper Sulfide	No Effect
Copper Sulphate, Saturated Solution (Boiling)	No Effect
Copperas	No Effect
Core Oil	No Effect
Corn Oil	No Effect
Cottonseed Oil	No Effect
Cream	No Effect
Creosols	No Effect
Creosote, Coal-Tar	No Effect
Creosote, Wood-Tar	No Effect
Cresol	No Effect
Cresylic Acid	No Effect
Crotonaldehyde	No Effect
Crude Oil	No Effect
Cumeme	No Effect
Cutting Oil (Sulfur Base)	No Effect
Cutting Oil (Water Base)	No Effect
Cyclohexane	No Effect
Cyclohexanol	No Effect
Cyclohexanone	No Effect
Cyclopentane	No Effect
Cymene	No Effect
D.D.T.	No Effect
Decahydronaphthalene	No Effect
Decanal	No Effect
Decane	No Effect
Decyl Alcohol	No Effect
Denatured Alcohol	No Effect
Detergent Solutions	No Effect
Developing Fluids & Solutions	No Effect
Dextrose	No Effect
Diacetone	No Effect

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Diacetone Alcohol ---------- No Effect
Diamylamine ---------- No Effect
Diazo Salts ---------- No Effect
Dibenzyl Ether ---------- No Effect
Dibenzyl Sebecate ---------- No Effect
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Ether ---------- No Effect
Dibutyl Mercaptan ---------- No Effect
Dibutyl Phthalate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dibutyl Sebecate ---------- No Effect
Dichlorethane ---------- No Effect
Dichloro Isopropyl Ether ---------- No Effect
Dichloroacetic Acid ---------- No Effect
Dichlorobutane ---------- No Effect
Dichloroethane ---------- Minor Effect
Dichloroethyl Ether ---------- No Effect
Dichloropenthane ---------- No Effect
Dicyclohexylamine ---------- No Effect
Diemethyl Formamide ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diester Synthetic Oils ---------- No Effect
Diethanol Amine ---------- No Effect
Diethyl Amine ---------- No Effect
Diethyl Benzene ---------- No Effect
Diethyl Carbonate ---------- No Effect
Diethyl Ether ---------- No Effect
Diethyl Phthalate ---------- No Effect
Diethyl Sebacate ---------- No Effect
Diethylamine ---------- No Effect
Diethylene Ether (Dioxane) ---------- No Effect
Diethylene Glycol ---------- No Effect
Diethylene Triamine ---------- No Effect
Diglycolic Acid ---------- No Effect
Diisobutyl Ketone ---------- No Effect
Diisobutylene ---------- No Effect

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Diisodecyl Adipate ---------- No Effect
Diisodecyl Phthalate ---------- No Effect
Diisooctyl Adipate ---------- No Effect
Diisooctyl Phthalate ---------- No Effect
Diisooctyl Sebecate ---------- No Effect
Diisopropyl Amine ---------- No Effect
Diisopropyl Benzene ---------- No Effect
Diisopropyl Ketone ---------- No Effect
Dimethyl Aniline ---------- No Effect
Dimethyl Ether ---------- No Effect
Dimethyl Phthalate ---------- No Effect
Dimethyl Sulfate ---------- No Effect
Dimethyl Sulfide ---------- No Effect
Dinitrotoluene ---------- No Effect
Dioctyl Phthalate ---------- No Effect
Dioctyl Sebecate ---------- No Effect
Dioctylphthalate ---------- No Effect
Dioxalanes ---------- No Effect
Dipentene ---------- No Effect
Diphenyl Oxide ---------- No Effect
Dipropyl Ketone ---------- No Effect
Dipropylamine ---------- No Effect
Dipropylene Glycol ---------- No Effect
Dipsersing Oil #10 ---------- No Effect
Disodium Phosphate ---------- No Effect
Divinyl Benzene ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dow Corning (Silicones) ---------- No Effect
Dowtherm (Biphenyl & Phenyl Ether) ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect

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Epichlorohydrin ---------- No Effect
Epoxy Resins ---------- No Effect
Epsom Salts ---------- No Effect
Ethane ---------- No Effect
Ethanolamine ---------- No Effect
Ether (Ethyl, Methyl, Isor) ---------- No Effect
Ethers ---------- No Effect
Ethyl Acetate ---------- No Effect
Ethyl Acetoacetate ---------- No Effect
Ethyl Acrylate ---------- No Effect
Ethyl Alcohol ---------- No Effect
Ethyl Aluminum Dichloride ---------- No Effect
Ethyl Amine ---------- No Effect
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyl Acetate ---------- No Effect
Ethyl Butyl Alcohol ---------- No Effect
Ethyl Butyl Ketone ---------- No Effect
Ethyl Butyraldehyde ---------- No Effect
Ethyl Butyrate ---------- No Effect
Ethyl Caprylate ---------- No Effect
Ethyl Cellose ---------- No Effect
Ethyl Cellosolve ---------- No Effect
Ethyl Cellulose ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethyl Chloride (Dry) ---------- No Effect
Ethyl Chloride (Wet) ---------- No Effect
Ethyl Chlorocarbonate ---------- No Effect
Ethyl Chloroformate ---------- No Effect
Ethyl Cyanide ---------- No Effect
Ethyl Ether ---------- No Effect
Ethyl Formate ---------- No Effect
Ethyl Iodide ---------- No Effect
Ethyl Isobutyrate ---------- No Effect
Ethyl Mercaptan ---------- No Effect

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Ethyl Oxalate ---------- No Effect
Ethyl Pentachlorobenzene ---------- No Effect
Ethyl Propionate ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- No Effect
Ethylene ---------- No Effect
Ethylene Bromide ---------- No Effect
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- No Effect
Ethylene Dibromide ---------- No Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- No Effect
Ethylene Glycol Monobutyl ---------- No Effect
Ethylene Glycol Monoethyl ---------- No Effect
Ethylene Glycol Monomethyl ---------- No Effect
Ethylene Glycol Monomethyl Ether ---------- No Effect
Ethylene Oxide ---------- No Effect
Ethylene Trichloride ---------- No Effect
Ethylhexyl Acetate ---------- No Effect
Ethylhexyl Alcohol ---------- No Effect
Ethylidene Chloride ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- No Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 1% Solution (Boiling) ------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Chloride, 5% Agitated or Aerated ------ No Effect
Ferric Chloride, 5% Solution (Still) --------- No Effect
Ferric Hydroxide ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- Moderate Effect
Ferric Sulphate 1% to 5% ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect

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Ferrous Sulfate (Saturated) ---------- No Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fish Liver Oils ---------- No Effect
Fish Oil ---------- No Effect
Fluboric Acid ---------- No Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluorine (Liquid) ---------- No Effect
Fluorobenzene ---------- No Effect
Fluorolube ---------- No Effect
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- No Effect
Formaldehyde (Hot) ---------- No Effect
Formaldehyde, 40% ---------- No Effect
Formamide ---------- No Effect
Formic Acid ---------- No Effect
Formic Acid (Dilute Cold) ---------- No Effect
Formic Acid (Dilute Hot) ---------- No Effect
Freon ---------- No Effect
Freon 11 ---------- No Effect
Freon 112 ---------- No Effect
Freon 113 ---------- No Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- No Effect
Freon 115 ---------- No Effect
Freon 12 ---------- No Effect
Freon 12,13,22,114,115 ---------- No Effect
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 142b ---------- No Effect
Freon 152a ---------- No Effect
Freon 21 ---------- No Effect
Freon 218 ---------- No Effect
Freon 22 ---------- No Effect

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Freon 31 ---------- No Effect
Freon 32 ---------- No Effect
Freon 502 ---------- No Effect
Freon C316 ---------- No Effect
Freon T-P35 ---------- No Effect
Freon T-WD602 ---------- No Effect
Freon T.F. ---------- No Effect
Freon TA ---------- No Effect
Freon TC ---------- No Effect
Freon TMC ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- No Effect
Freon, K-142B ---------- No Effect
Freon, K-152A ---------- No Effect
Freon, MF ---------- No Effect
Freon, PCA ---------- No Effect
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- No Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Fumaric Acid ---------- No Effect
Fuming Sulphuric Acid (20/25% Oleum) --------- No Effect
Furan ---------- No Effect
Furan Resin ---------- No Effect
Furfural ---------- No Effect
Furfuraldehyde ---------- No Effect
Furfuryl Alcohol ---------- No Effect
Fusel Oil ---------- No Effect
Gallic Acid ---------- No Effect
Gas, Manufactured ---------- No Effect
Gas, Natural ---------- No Effect
Gasoline (Aviation) ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Petrol) ---------- No Effect
Gasoline (Sour) ---------- No Effect
Gasoline (Unleaded) ---------- No Effect

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Gasoline, Refined ---------- No Effect
Gelatin ---------- No Effect
Ginger Oil ---------- No Effect
Glauber's Salt ---------- No Effect
Gluconic Acid ---------- No Effect
Glucose ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Glycolic Acid ---------- No Effect
Glycols ---------- No Effect
Gold Monocyanide ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- No Effect
Grapefruit Oil ---------- No Effect
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Grease (Silicone Base) ---------- No Effect
Green Sulfate Liquor ---------- No Effect
Halowax Oil ---------- No Effect
Heptanal ---------- No Effect
Heptane ---------- No Effect
Hexalin ---------- No Effect
Hexanal ---------- No Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
Honey ---------- No Effect
Hydraulic Oil ---------- No Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- No Effect
Hydrazine (Diamine) ---------- No Effect

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Hydrobomic Acid, 20% ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid 40% ---------- No Effect
Hydrobromic Acid, 20% ---------- No Effect
Hydrochloric Acid ---------- No Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid (Dry Gas) ---------- No Effect
Hydrochloric Acid 20% ---------- No Effect
Hydrochloric Acid, 100% ---------- No Effect
Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrocyanic Acid (Gas 10%) ---------- No Effect
Hydrofluoric Acid ---------- No Effect
Hydrofluoric Acid, (Conc) ---------- No Effect
Hydrofluoric Acid, 100% ---------- No Effect
Hydrofluoric Acid, 20% ---------- No Effect
Hydrofluoric Acid, 50% ---------- No Effect
Hydrofluoric Acid, 75% ---------- No Effect
Hydrofluosilicic Acid ---------- Minor Effect
Hydrofluosilicic Acid, 20% ---------- No Effect
Hydrogen ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- No Effect
Hydrogen Gas ---------- No Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- No Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 3% ---------- No Effect
Hydrogen Peroxide, 30% ---------- No Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Hydrogen Phosphide ---------- No Effect
Hydrogen Sulfide ---------- No Effect
Hydrogen Sulfide (Dry) ---------- No Effect

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Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroquinone ---------- No Effect
Hydroxyacetic Acid, 10% ---------- No Effect
Hypochlorous Acid ---------- No Effect
Hyporchlorities, Sodium ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- No Effect
Iodine (In Alcohol) ---------- No Effect
Iodine Pentafluoride ---------- No Effect
Iodoform ---------- No Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- No Effect
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- No Effect
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- No Effect
Iso Butane ---------- No Effect
Isoamyl Acetate ---------- No Effect
Isoamyl Alcohol ---------- No Effect
Isoamyl Butyrate ---------- No Effect
Isoamyl Chloride ---------- No Effect
Isobutyl Acetate ---------- No Effect
Isobutyl Alcohol ---------- No Effect
Isobutyl Amine ---------- No Effect
Isobutyl Chloride ---------- No Effect
Isobutyric Acid ---------- No Effect
Isododecane ---------- No Effect
Isooctane ---------- No Effect
Isopentane ---------- No Effect
Isophorone ---------- No Effect
Isopropyl Acetate ---------- No Effect
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- No Effect
Isopropyl Chloride ---------- No Effect

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Isopropyl Ether ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Jet Fuels (JP1 to JP6) ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- No Effect

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TEFLON (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kerosene	No Effect
Ketones	No Effect
Keystone #87HX-Grease	No Effect
Lacquer Solvents	No Effect
Lacquer Thinners	No Effect
Lacquers	No Effect
Lactic Acid	No Effect
Lactic Acid 10% Solution (Boiling)	No Effect
Lactic Acid, 25%	No Effect
Lactic Acid, 5% Solution	No Effect
Lactol	No Effect
Lard Oil	No Effect
Lard Oil (Cold)	No Effect
Lard Oil (Hot)	No Effect
Latex	No Effect
Lauric Acid	No Effect
Lauryl Alcohol	No Effect
Lavender Oil	No Effect
Lead Acetate	No Effect
Lead Chloride	No Effect
Lead Fluoborate Plating	No Effect
Lead Sulfamate	Minor Effect
Lemon Oil	No Effect
Light Grease	No Effect
Lignin Liquor	No Effect
Ligroin	No Effect
Lime	No Effect
Lime Bleach	No Effect
Lime Slurries	No Effect
Lime Sulfur	No Effect
Lime, Soda	No Effect
Limonene	No Effect

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Lindol ---------- No Effect
Linoleic Acid ---------- No Effect
Linseed Oil ---------- No Effect
Liquor, White ---------- No Effect
Liquors ---------- No Effect
Lithium Bromide ---------- No Effect
Lithium Chloride ---------- No Effect
Lubricants ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Lubricating Oils ---------- No Effect
Lye ---------- No Effect
Lysol ---------- No Effect
Magnesium Bilsulfite ---------- No Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- No Effect
Magnesium Salts ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfide ---------- No Effect
Magnesium Sulfite ---------- No Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- No Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- No Effect
Manganese Sulfate ---------- No Effect
Maple Sugar Liquors ---------- No Effect
Mayonnaise ---------- No Effect
Melamine Resins ---------- No Effect
Mercaptan ---------- No Effect
Mercuric Chloride ---------- No Effect

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Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercuric Sulfate ---------- No Effect
Mercurous Nitrate ---------- No Effect
Mercury ---------- No Effect
Mercury Salts ---------- No Effect
Mercury Vapors ---------- No Effect
Mesityl Oxide ---------- No Effect
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- No Effect
Methyl Acetate ---------- No Effect
Methyl Acetoacetate ---------- No Effect
Methyl Acetone ---------- No Effect
Methyl Acrylate ---------- No Effect
Methyl Acrylic Acid ---------- No Effect
Methyl Alcohol ---------- No Effect
Methyl Alcohol, 10% ---------- No Effect
Methyl Amine ---------- No Effect
Methyl Amyl Acetate ---------- No Effect
Methyl Amyl Alcohol ---------- No Effect
Methyl Aniline ---------- No Effect
Methyl Bromide ---------- No Effect
Methyl Butyl Ketone ---------- No Effect
Methyl Butyrate ---------- No Effect
Methyl Cellosolve ---------- No Effect
Methyl Chloride ---------- No Effect
Methyl Cyclopentane ---------- No Effect
Methyl Dichloride ---------- No Effect
Methyl Ether ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Formate ---------- No Effect
Methyl Hexane ---------- No Effect
Methyl Iodide ---------- No Effect
Methyl Isobutyl Ketone ---------- No Effect
Methyl Isopropyl Ketone ---------- No Effect
Methyl Methacrylate ---------- No Effect

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Methyl Oleate ---------- No Effect
Methyl Propyl Ketone ---------- No Effect
Methyl Salicylate ---------- No Effect
Methylacrylic Acid ---------- No Effect
Methylamine ---------- No Effect
Methylene Bromide ---------- No Effect
Methylene Chloride ---------- No Effect
Milk ---------- No Effect
Mine Water ---------- No Effect
Mineral Oils ---------- No Effect
Mixed Acids ---------- No Effect
Mixed Acids Sulfuricnitric ---------- No Effect
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochloracetic Acid ---------- No Effect
Monochlorobenzene ---------- No Effect
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- No Effect
Monomethyl Hydrazine ---------- No Effect
Monomethylaniline ---------- No Effect
Mustard ---------- No Effect
N,N-Dimethyl Formamide ---------- No Effect
N,N-Dimethylaniline ---------- No Effect
n-Amyl Amine ---------- No Effect
n-Butyl Acetate ---------- No Effect
N-Hexaldehyde ---------- No Effect
n-Hexane ---------- No Effect
n-Hexane 1 ---------- No Effect
N-Methyl Aniline ---------- No Effect
n-Octane ---------- No Effect
N-Pentane ---------- No Effect
n-Propyl Acetate ---------- No Effect
n-Propyl Nitrate ---------- No Effect
Naphtha Coal Tar (Benzol) ---------- No Effect
Naphtha, Petroleum ---------- No Effect

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Naphthalene ---------- No Effect
Naphthoic Acid ---------- No Effect
Naptha ---------- No Effect
Naptha-Coal Tar (Benzol) ---------- No Effect
Napthalene ---------- No Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neohexane ---------- No Effect
Neon ---------- No Effect
Neosol ---------- No Effect
Neville Acid ---------- No Effect
Nickel Acetate ---------- No Effect
Nickel Ammonium Sulfate ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Nitrate ---------- No Effect
Nickel Plating, Electroless 200 F ---------- No Effect
Nickel Plating, Fluoborate 100-170 F ---------- No Effect
Nickel Plating, High Chloride 130-160 F ------ No Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F ---------- No Effect
Nickel Sulfate ---------- No Effect
Nicotine ---------- No Effect
Nicotinic Acid ---------- No Effect
Niter Coke ---------- No Effect
Nitrana ---------- No Effect
Nitric Acid ---------- No Effect
Nitric Acid & Hydrochloric Acid ---------- No Effect
Nitric Acid (Conc) ---------- No Effect
Nitric Acid (Red Fuming) ---------- No Effect
Nitric Acid 3 Molar ---------- No Effect
Nitric Acid Concentrated Boiling ---------- No Effect
Nitric Acid Inhibited Red Fuming (IRFNA) ----- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect

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Nitric Acid, 25% ---------- No Effect
Nitric Acid, 35% ---------- No Effect
Nitric Acid, 50% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- No Effect
Nitric Acid, 68% ---------- No Effect
Nitric Acid, 70% ---------- No Effect
Nitric Oxide ---------- No Effect
Nitrobenzene ---------- No Effect
Nitroethane ---------- No Effect
Nitrogen Tetroxide ---------- No Effect
Nitromethane ---------- No Effect
Nitropropane ---------- No Effect
Nitrosyl Chloride ---------- No Effect
Nitrous Acid ---------- No Effect
Nitrous Gases ---------- No Effect
Nitrous Oxide ---------- No Effect
o-Chlorophenol ---------- No Effect
o-Dichlorobenzene ---------- No Effect
Octachlorotoluene ---------- No Effect
Octadecane ---------- No Effect
Octyl Acetate ---------- No Effect
Oil - No. 1 ASTM ---------- No Effect
Oil - No. 3 ASTM ---------- No Effect
Oils (Animal) ---------- No Effect
Oils and Fats ---------- No Effect
Oils, Crude ---------- No Effect
Oleic Acid ---------- No Effect
Olein ---------- No Effect
Oleum ---------- No Effect
Oleum (Fuming Sulfuric Acid) ---------- No Effect
Oleum Spirits ---------- No Effect
Oleum, 25% ---------- No Effect
Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oxalic Acid ---------- No Effect
Oxalic Acid, 10% Solution ---------- No Effect

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Oxalic Acid, 10% Solution (Boiling) ---------- No Effect
Oxalic Acid, 5% (Hot and Cold) --------------- No Effect
Oxygen, 200-400 degrees F -------------------- No Effect
Oxygen, Cold --------------------------------- No Effect
Ozone -- No Effect
Ozone (Dry) ---------------------------------- No Effect
Ozone (Wet) ---------------------------------- No Effect
P-Cymene ------------------------------------- No Effect
P-Tertiary Butyl Catechol -------------------- No Effect
Paint Thinner, DUCO -------------------------- No Effect
Paints & Solvents ---------------------------- No Effect
Palm Oil ------------------------------------- No Effect
Palmitic Acid -------------------------------- No Effect
Para-Dichlorobenzene ------------------------- No Effect
Paraffins (Paraffin Oil) --------------------- No Effect
Paraformaldehyde ----------------------------- No Effect
Paraldehyde ---------------------------------- No Effect
Peanut Oil ----------------------------------- No Effect
Pentacetate ---------------------------------- No Effect
Pentachloroethane ---------------------------- No Effect
Pentachlorophenol ---------------------------- No Effect
Pentane, 2 Methyl ---------------------------- No Effect
Pentane, 2-4, Dimethyl ----------------------- No Effect
Pentane, 3-Methyl ---------------------------- No Effect
Penthane ------------------------------------- No Effect
Peppermint Oil ------------------------------- No Effect
Perchloric Acid ------------------------------ No Effect
Perchloric Acid, 10% ------------------------- No Effect
Perchloric Acid, 70% ------------------------- No Effect
Perchloroethylene ---------------------------- No Effect
Permachlor (Degreasing Fluid) ---------------- No Effect
Petrolatum ----------------------------------- No Effect
Petroleum Ether ------------------------------ No Effect
Petroleum Oils (Sour) ------------------------ No Effect
Phenethyl Alcohol ---------------------------- No Effect
Phenol --------------------------------------- No Effect

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Phenol (Carbolic Acid) ---------- No Effect
Phenol Sulfonic Acid ---------- No Effect
Phenol, 10% ---------- No Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phenolic Sulphonate ---------- No Effect
Phenyl Acetate ---------- No Effect
Phenyl Ethyl Ether ---------- No Effect
Phenyl Hydrazine ---------- No Effect
Phenylbenzene ---------- No Effect
Phorone ---------- No Effect
Phosgene, Gas ---------- No Effect
Phosphoric Acid ---------- No Effect
Phosphoric Acid (Aerated) ---------- No Effect
Phosphoric Acid (Conc) ---------- No Effect
Phosphoric Acid (Crude) ---------- No Effect
Phosphoric Acid Air Free ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect
Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 10% Solution (Hot) ---------- No Effect
Phosphoric Acid, 20% ---------- No Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 3 Molar ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Acid, 50% Solution (Hot) ---------- No Effect
Phosphoric Acid, 85% Solution ---------- No Effect
Phosphoric Acid, 85% Solution (Hot) ---------- No Effect
Phosphoric Anhydride (Dry or Moist) ---------- No Effect
Phosphoric Anhydride (Molten) ---------- No Effect
Phosphorous ---------- No Effect
Phosphorus Oxychloride ---------- No Effect
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- No Effect
Photographic Solutions ---------- No Effect
Phthalic Anhydride ---------- No Effect

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Pickling Solution ---------- No Effect
Picric Acid ---------- No Effect
Picric Acid, H2O Solution ---------- No Effect
Pine Oil ---------- No Effect
Pinene ---------- No Effect
Piperidine ---------- No Effect
Pitch ---------- No Effect
Plating Solution, Cadmium ---------- No Effect
Plating Solution, Chrome ---------- No Effect
Plating Solution, Lead ---------- No Effect
Plating Solution, Others ---------- No Effect
Plating Solutions ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Pneumatic Service ---------- No Effect
Polyvinyl Acetate Emulsion ---------- No Effect
Potassium Acetate ---------- No Effect
Potassium Alum ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bisulfate ---------- No Effect
Potassium Bisulfite ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Chloride, Boiling ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Diphosphate ---------- No Effect
Potassium Ferricyanide ---------- No Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Ferrocyanine ---------- No Effect
Potassium Hydroxide ---------- No Effect
Potassium Hydroxide, 27% Solution (Boiling) -- No Effect

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Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 50% ---------- No Effect
Potassium Hydroxide, 50% Solution (Boiling) -- No Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Hydroxide, 70% Solution (Hot) ------ No Effect
Potassium Hypochlorite ---------- No Effect
Potassium Iodide ---------- No Effect
Potassium Monophosphates ---------- No Effect
Potassium Nitrate ---------- No Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- No Effect
Potassium Oxalate ---------- No Effect
Potassium Permanganate ---------- No Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Silicate ---------- No Effect
Potassium Sulfate ---------- No Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- No Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect
Propane (Liquefied) ---------- No Effect
Propane Propionitrile ---------- No Effect
Propionaldehyde ---------- No Effect
Propionic Acid ---------- No Effect
Propyl Alcohol ---------- No Effect
Propylene ---------- No Effect
Propylene Dichloride ---------- No Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- No Effect

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Pydraul ---------- No Effect
Pyranol ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- No Effect
Pyrogallic Acid ---------- No Effect
Pyroligneous ---------- No Effect
Pyroligneous Acid ---------- No Effect
Pyrrole ---------- No Effect
Quaternary Ammonium Salts ---------- No Effect
Quench Oil ---------- No Effect
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- No Effect
Rape-Seed Oil ---------- No Effect
Rayon Spin Bath ---------- No Effect
Resins and Rosins ---------- No Effect
Resorcinel ---------- No Effect
Rhodium Plating 120 F ---------- No Effect
RJ-1 (Mil-F-25558) ---------- No Effect
Rose Oil ---------- No Effect
Rosin ---------- No Effect
Rosin Emulsion ---------- No Effect
Rosin Oil ---------- No Effect
Rotenone ---------- No Effect
RP-1 (Mil-R-25576) ---------- No Effect
Rubber Latex Emulsions ---------- No Effect
Rubber Solvents ---------- No Effect
Rum ---------- No Effect
Rust Inhibitors ---------- No Effect
Sal Ammoniac ---------- No Effect
Sal Soda ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- No Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- No Effect

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Sesame Seed Oil ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicon Tetrachloride Wet ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- No Effect
Silver Bromide ---------- No Effect
Silver Chloride ---------- No Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Silver Plating Solutions ---------- No Effect
Skydrol Hydraulic Fluid ---------- No Effect
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Acid Sulfate ---------- No Effect
Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bichromate ---------- No Effect
Sodium Bisulfate ---------- No Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Bromide ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chloride, Saturated Solution (Boiling) No Effect

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Sodium Chromate ---------- No Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- No Effect
Sodium Dichromate ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- No Effect
Sodium Fluoride, 5% ---------- No Effect
Sodium Hexametaphosphate ---------- No Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) ---------- No Effect
Sodium Hydroxide, 3 Molar ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- No Effect
Sodium Hydroxide, 70% (Cold) ---------- No Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hydroxide, 80% Solution (Hot) ---------- No Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- No Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect
Sodium Hyposulfate ---------- No Effect
Sodium Iodide ---------- No Effect
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate ---------- No Effect
Sodium Metasilicate (Cold) ---------- No Effect
Sodium Metasilicate (Hot) ---------- No Effect
Sodium Monophosphate ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Nitrate - Fused ---------- No Effect
Sodium Nitrite ---------- No Effect
Sodium Orthosilicate ---------- No Effect

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Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- No Effect
Sodium Phosphate ---------- No Effect
Sodium Phosphate (Dibasic) ---------- No Effect
Sodium Phosphate (Mono) ---------- No Effect
Sodium Phosphate (Tribasic) ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Pyrophosphate ---------- No Effect
Sodium Resinate ---------- No Effect
Sodium Salicylate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Hot) ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- No Effect
Sodium Sulfite, 10% Solution @ 150 F ---------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Tetraphosphate ---------- No Effect
Sodium Thiosulfate ---------- No Effect
Sodium Triphosphate ---------- No Effect
Sorghum ---------- No Effect
Sorgum ---------- No Effect
Sour Crude Oil ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Spry ---------- No Effect
SR-10 Fuel ---------- No Effect
SR-6 Fuel ---------- No Effect

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Stannic Chloride ---------- No Effect
Stannic Chloride, 50% ---------- No Effect
Stannous Chloride ---------- No Effect
Stanous Chloride, 15% ---------- No Effect
Starch ---------- No Effect
Steam, Above 350 F ---------- **Severe Effect**
Steam, Below 350 F ---------- No Effect
Stearic Acid ---------- No Effect
Steric Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- No Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfamic Acid ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfite Liquors ---------- No Effect
Sulfur ---------- No Effect
Sulfur (Molten) ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide ---------- No Effect
Sulfur Dioxide, Dry ---------- No Effect
Sulfur Dioxide, Liquefied Under Pressure ----- No Effect
Sulfur Dioxide, Wet ---------- No Effect
Sulfur Hexafluoride ---------- No Effect
Sulfur Trioxide ---------- Minor Effect
Sulfur Trioxide (Dry) ---------- No Effect
Sulfuric Acid ---------- No Effect
Sulfuric Acid (Conc) ---------- No Effect
Sulfuric Acid (Fuming) ---------- No Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 25% ---------- No Effect
Sulfuric Acid, 3 Molar ---------- No Effect
Sulfuric Acid, 50% ---------- No Effect
Sulfuric Acid, 60% ---------- No Effect
Sulfuric Acid, 75% ---------- No Effect

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Sulfuric Acid, 95% ---------- No Effect
Sulfuric Acid, 98.5% ---------- Minor Effect
Sulfurous Acid ---------- No Effect
Sulfuryl Chloride ---------- No Effect
Sulphuric Acid, 10% Solution ---------- No Effect
Sulphuric Acid, 10% Solution (Boiling) ------- No Effect
Sulphuric Acid, 5% ---------- No Effect
Sulphuric Acid, 5% Solution (Boiling) -------- No Effect
Sulphuric Acid, 50% Solution (Boiling) ------- No Effect
Sulphuric Acid, Concentrated Solution -------- No Effect
Sulphuric Acid,
Concentrated Solution (Boiling) ---- No Effect
Sulphurous Acid - Saturated ---------- No Effect
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Talc Oil ---------- No Effect
Talc Slurry ---------- No Effect
Tall Oil (Liquid Rosin) ---------- No Effect
Tallow ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- No Effect
Tannin ---------- No Effect
Tanning Liquors ---------- No Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tarpenes ---------- No Effect
Tartaric Acid ---------- No Effect
Terpene Monocylic ---------- No Effect
Terpineol ---------- No Effect
Tertiary Butyl Alcohol ---------- No Effect
Tertiary Butyl Catechol ---------- No Effect
Tertiary Butyl Mercaptan ---------- No Effect
Tetra Bromomethane ---------- No Effect
Tetrabutyl Titanate ---------- No Effect
Tetrachlorodifluoroethane ---------- No Effect
Tetrachloroethane ---------- No Effect

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Tetrachloroethylene ---------- No Effect
Tetraethyl Lead ---------- No Effect
Tetraethylene Glycol ---------- No Effect
Tetrahydrofuran ---------- No Effect
Tetrahydronaphthalene ---------- No Effect
Tetraphosphoglucosate ---------- No Effect
Tetraphosphoric Acid ---------- No Effect
Thiamin Hydrachloide ---------- No Effect
THIO-RED ---------- No Effect
Thionyl Chloride ---------- No Effect
Thionyl Chloride ---------- No Effect
Thiophene ---------- No Effect
Tin Tetrachloride ---------- No Effect
Tin-Fluoborate Plating 100 F ---------- No Effect
Tin-Lead Plating 100 F ---------- No Effect
Titanium Tetrachloride ---------- No Effect
Toluene ---------- No Effect
Toluene Diisocyanate ---------- No Effect
Toluidine ---------- No Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- No Effect
Transformer Oil ---------- No Effect
Transmission Fluid ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triacetin ---------- No Effect
Triallyl Phosphate ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributoxyl Ethyl Phosphate ---------- No Effect
Tributyl Mercaptan ---------- No Effect
Tributyl Phosphate ---------- No Effect
Trichloroacetic Acid ---------- No Effect
Trichlorobenzenes ---------- No Effect
Trichloroethane ---------- No Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect

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Trichlorotrifluoroethane (Freon 113) --------- No Effect
Tricresolphosphate ---------- No Effect
Tricresyl Phosphate ---------- No Effect
Tridecyl Alcohol ---------- No Effect
Triethanolamine ---------- No Effect
Triethyl Aluminum ---------- No Effect
Triethyl Amine ---------- No Effect
Triethyl Borane ---------- No Effect
Triethylene Glycol ---------- No Effect
Trimethylene Glycol ---------- No Effect
Trinitrotoluene ---------- No Effect
Trioctyl Phosphate ---------- No Effect
Trisodium Phosphate ---------- No Effect
Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Univolt #35 (Mineral Oil) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- No Effect
Urea ---------- No Effect
Uric Acid ---------- No Effect
Urine ---------- No Effect
Valeric Acid ---------- No Effect
Vanilla Extract ---------- No Effect
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oil (Hot) ---------- No Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- No Effect
Vinyl Acetate ---------- No Effect
Vinyl Chloride ---------- No Effect
Walnut Oil ---------- No Effect

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Water ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Glycol ---------- No Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Weed Killers ---------- No Effect
Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Oil ---------- No Effect
White Sulfate Liquor ---------- No Effect
Wines ---------- No Effect
Wood Alcohol ---------- No Effect
Wood Oil ---------- No Effect
Wort, Distillery ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- No Effect
Xylidenes, Mixed, Aromatic ---------- No Effect
Xylidines ---------- No Effect
Xylon ---------- No Effect
Zeolite ---------- No Effect
Zinc Acetate ---------- No Effect
Zinc Ammonium Chloride ---------- No Effect
Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Nitrate ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ---------- No Effect
Zinc Plating, Acid Sulfate Bath 150 F ---------- No Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ---------- No Effect

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Zinc Salts ---------- No Effect
Zinc Sulfate ---------- No Effect
Zinc Sulfate, 25% Solution (Boiling) --------- No Effect
Zinc Sulfate, 5% Solution ---------- No Effect
Zinc Sulfate, Saturated Solution ---------- No Effect

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Terpene Monocylic

Material Compatibility

MATERIAL	EFFECT
TEFLON	No Effect

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Terpineol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Tertiary Butyl Alcohol

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
NEOPRENE	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Tertiary Butyl Catechol

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Minor Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CAST IRON	Minor Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Tertiary Butyl Mercaptan

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Tetra Bromomethane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Tetrabutyl Titanate

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	Minor Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Tetrachlorodifluoroethane

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Tetrachloroethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
POLYSULFONE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect

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VITON ---------- No Effect

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Tetrachloroethylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Tetraethyl Lead

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	Moderate Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HYPALON	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	Minor Effect
POLYETHYLENE LOW DENSITY	Minor Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
RYTON	No Effect
SILICONE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Tetraethyl Lead "Blend"

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
VITON	No Effect

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Tetraethylene Glycol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect
VITON	No Effect

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Tetrahydrofuran

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
E.P.D.M.	Moderate Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
FLOURAZ	**Severe Effect**
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
RUBBER (Natural)	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Tetrahydronaphthalene

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Tetralin

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
VITON	No Effect

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Tetraphosphoglucosate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Tetraphosphoric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
TEFLON	No Effect

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Thiamin Hydrochloride

Material Compatibility

MATERIAL	EFFECT
TEFLON	No Effect

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THIO-RED

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORPRENE	No Effect
NYLON (Polyamide)	Minor Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
SILICONE	No Effect

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TEFLON ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Thiokol TP-90B

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
VITON	No Effect

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Thiokol TP-95

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
VITON	No Effect

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Thionyl Chloride

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	Moderate Effect
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	Minor Effect
POLYPROPYLENE	**Severe Effect**
PVC	**Severe Effect**
TEFLON	No Effect
TEFLON	No Effect
VITON	Minor Effect
VITON	No Effect

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Thiophene

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Moderate Effect

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Tin Tetrachloride

Material Compatibility

MATERIAL	EFFECT
KALREZ	No Effect
TEFLON	No Effect

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Tin-Fluoborate Plating 100 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	Minor Effect
CERAMIC	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Tin-Lead Plating 100 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	Minor Effect
CERAMIC	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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TITANIUM

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	No Effect
Acetic Acid, 20%	No Effect
Acetic Acid, 5%	No Effect
Acetic Acid, 80%	No Effect
Acetic Acid, Glacial	No Effect
Acetic Anhydride	No Effect
Acetone	No Effect
Alcohol, Amyl	No Effect
Alcohol, Benzyl	No Effect
Alcohol, Butyl	Minor Effect
Alcohol, Diacetone	No Effect
Alcohol, Ethyl	No Effect
Alcohol, Hexyl	No Effect
Alcohol, Isobutyl	No Effect
Alcohol, Isopropyl	No Effect
Alcohol, Methyl	No Effect
Alcohol, Octyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Chloride	Moderate Effect
Aluminum Chloride, 20%	No Effect
Aluminum Fluoride	**Severe Effect**
Aluminum Sulfate	No Effect
Amines	Minor Effect
Ammonia, 10%	No Effect
Ammonia, Anhydrous, Liquid	Minor Effect
Ammonium Carbonate	No Effect
Ammonium Chloride	No Effect
Ammonium Hydroxide	No Effect
Ammonium Nitrate	No Effect
Ammonium Persulfate	No Effect
Ammonium Phosphate, Di-Basic	No Effect
Ammonium Phosphate, Monobasic	No Effect

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Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- No Effect
Amyl Alcohol ---------- No Effect
Aniline ---------- Moderate Effect
Aniline Oil ---------- No Effect
Aqua Regia ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- No Effect
Barium Hydroxide ---------- Minor Effect
Barium Nitrate ---------- No Effect
Barium Sulfate ---------- No Effect
Beer ---------- No Effect
Benzaldehyde ---------- No Effect
Benzene ---------- No Effect
Benzoic Acid ---------- No Effect
Benzol ---------- No Effect
Boric Acid ---------- No Effect
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Bromine, Liquid ---------- No Effect
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------- No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Butyric Acid ---------- No Effect
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- **Severe Effect**
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Sulfate ---------- No Effect

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Carbon Tetrachloride ---------- No Effect
Chloracetic Acid ---------- No Effect
Chlorine Water ---------- No Effect
Chlorine, Anhydrous Liquid ---------- **Severe Effect**
Chlorine, Dry ---------- **Severe Effect**
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- No Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect
Chromium Plating, Barrel Chrome Bath 95 F ---- Moderate Effect
Chromium Plating, Black Chrome Bath 115 F ---- No Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F No Effect
Chromium Plating, Fluoride Bath 130 F -------- Moderate Effect
Chromium Plating, Fluosilicate Bath 95 F ----- Moderate Effect
Citric Acid ---------- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Chloride ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Nitrate ---------- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- **Severe Effect**
Copper Plating (Acid),
Copper Sulfate Bath R.T. ---------- No Effect
Copper Plating (Cyanide),
Copper Strike Bath 120 F ---------- No Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Sulfate ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Cyclohexane ---------- No Effect
Epsom Salts ---------- No Effect
Ethyl Chloride ---------- No Effect
Ethylene Chloride ---------- Minor Effect

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Ethylene Dichloride ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- No Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluboric Acid ---------- **Severe Effect**
Fluorine ---------- **Severe Effect**
Fluosilicic Acid ---------- **Severe Effect**
Formaldehyde ---------- No Effect
Formaldehyde, 40% ---------- No Effect
Formic Acid ---------- Moderate Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect
Glue ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid, 20% ---------- No Effect
Hydrochloric Acid, 100% ---------- **Severe Effect**
Hydrochloric Acid, 20% ---------- Moderate Effect
Hydrochloric Acid, 37% ---------- Moderate Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- **Severe Effect**
Hydrofluoric Acid, 75% ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- **Severe Effect**
Hydrogen Peroxide ---------- Minor Effect
Hydrogen Peroxide, 10% ---------- Moderate Effect
Hydrogen Peroxide, 30% ---------- Minor Effect
Hydrogen Sulfide, Aqueous ---------- No Effect
Hydroxyacetic Acid, 70% ---------- Minor Effect
Indium Sulfamate Plating R.T. ---------- No Effect

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Iodine ---------- No Effect
Iodine (In Alcohol) ---------- **Severe Effect**
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- No Effect
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- **Severe Effect**
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- No Effect
Kerosene ---------- No Effect
Ketones ---------- No Effect
Lacquer Thinners ---------- No Effect
Lactic Acid ---------- No Effect
Lead Acetate ---------- No Effect
Lead Fluoborate Plating ---------- **Severe Effect**
Lime ---------- No Effect
Lubricants ---------- No Effect
Magnesium Chloride ---------- No Effect
Magnesium Hydorxide ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Sulfate ---------- No Effect
Maleic Acid ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercury ---------- Moderate Effect
Methyl Chloride ---------- No Effect
Methyl Ethyl Ketone ---------- No Effect
Methyl Isobutyl Ketone ---------- No Effect
Methylene Chloride ---------- No Effect
Naptha ---------- No Effect
Napthalene ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Plating, Fluoborate 100-170 F --------- **Severe Effect**
Nickel Plating, High Chloride 130-160 F ------ No Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Sulfate ---------- No Effect

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Nitric Acid (Conc) ---------- No Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- No Effect
Nitric Acid, 50% ---------- No Effect
Nitrobenzene ---------- No Effect
Oxalic Acid ---------- Moderate Effect
Phenol (Carbolic Acid) ---------- Moderate Effect
Phosphoric Acid (Crude) ---------- Moderate Effect
Photographic Solutions ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Potassium Bicarbonate ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- No Effect
Potassium Chlorate ---------- No Effect
Potassium Chloride ---------- No Effect
Potassium Copper Cyanide ---------- No Effect
Potassium Dichromate ---------- No Effect
Potassium Hydroxide, 50% ---------- Moderate Effect
Potassium Nitrate ---------- No Effect
Potassium Permanganate ---------- Minor Effect
Potassium Sulfate ---------- No Effect
Rhodium Plating 120 F ---------- **Severe Effect**
Sea Water ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Soaps ---------- No Effect
Sodium Acetate ---------- No Effect
Sodium Aluminate ---------- Minor Effect
Sodium Bicarbonate ---------- No Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- No Effect
Sodium Carbonate ---------- No Effect
Sodium Chlorate ---------- No Effect
Sodium Chloride ---------- No Effect
Sodium Cyanide ---------- No Effect

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Sodium Fluoride ---------- No Effect
Sodium Hydroxide ---------- No Effect
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 80% ---------- No Effect
Sodium Hypochlorite ---------- No Effect
Sodium Hypochlorite (to 20%) ---------- No Effect
Sodium Nitrate ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Sulfate ---------- No Effect
Sodium Sulfide ---------- No Effect
Sodium Sulfite ---------- No Effect
Stannic Chloride ---------- No Effect
Stannous Chloride ---------- No Effect
Stearic Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Sulfur Dioxide ---------- No Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfurous Acid ---------- No Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tartaric Acid ---------- No Effect
Tetrachloroethane ---------- No Effect
Tin-Fluoborate Plating 100 F ---------- **Severe Effect**
Tin-Lead Plating 100 F ---------- **Severe Effect**
Toluene ---------- No Effect
Trichloroethane ---------- No Effect
Trichloroethylene ---------- No Effect
Tricresyl Phosphate ---------- Minor Effect
Vinegar ---------- No Effect
Zinc Chloride ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ **Severe Effect**
Zinc Plating, Acid Sulfate Bath 150 F -------- No Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect

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Zinc Sulfate ---------- No Effect

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Titanium Tetrachloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	Minor Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Toluene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	**Severe Effect**
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	No Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**

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NORYL ---------- **Severe Effect**
NYLON (Polyamide) ---------- No Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- No Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- **Severe Effect**
POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- **Severe Effect**
POLYPROPYLENE ---------- Minor Effect
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- Minor Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- **Severe Effect**
SILICON ---------- **Severe Effect**
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
TYGON (E-3606) ---------- **Severe Effect**
VINYL ---------- **Severe Effect**
VITON ---------- **Severe Effect**

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Toluene Diisocyanate

Material Compatibility

MATERIAL	EFFECT
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Toluene Diisocyanide

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	Minor Effect
VITON	**Severe Effect**

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Toluidine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Toluol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
FLOURAZ	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Tomato Pulp & Juice

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Toothpaste

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	No Effect

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Transformer Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Transmission Fluid

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	No Effect

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Transmission Fluid, Type A

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Triacetin

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Triallyl Phosphate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Moderate Effect
POLYPROPYLENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Triaryl Phosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
NEOPRENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Tributoxyl Ethyl Phosphate

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Tributyl Mercaptan

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Tributyl Phosphate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	Moderate Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Trichloroacetic Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	**Severe Effect**
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BUNA	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
E.P.D.M.	Moderate Effect
HASTELLOY C	Minor Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	Minor Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Trichlorobenzenes

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Trichloroethane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Moderate Effect
316 STAINLESS STEEL	Moderate Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
MONEL	No Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
PHENOLIC	Moderate Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**

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PVC ---------- Minor Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Moderate Effect
SILICON ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- Moderate Effect

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Trichloroethylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	Moderate Effect
CERAMIC	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	Moderate Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**

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POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- **Severe Effect**
SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VITON ---------- No Effect

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Trichloromonofluoroethane (Freon 17)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect

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Trichloropropane

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	Moderate Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
NORYL	**Severe Effect**
POLYACETAL	No Effect
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Trichlorotrifluoroethane (Freon 113)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
KALREZ	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Tricresolphosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
TEFLON	No Effect

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Tricresyl Phosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
POLYACETAL	Moderate Effect
POLYPROPYLENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	**Severe Effect**
TEFLON	No Effect
TITANIUM	Minor Effect
VITON	Moderate Effect

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Tridecyl Alcohol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Triethanolamine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	**Severe Effect**
E.P.D.M.	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	Moderate Effect
HASTELLOY C	No Effect
HYPALON	Moderate Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NORYL	Minor Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Moderate Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	No Effect
RYTON	No Effect

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SILICON ---------- **Severe Effect**
SILICONE ---------- **Severe Effect**
TEFLON ---------- No Effect
VITON ---------- **Severe Effect**

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Triethyl Aluminum

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
BUNA	**Severe Effect**
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
NYLON (Polyamide)	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	Minor Effect
TEFLON	No Effect
VITON	Minor Effect

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Triethyl Amine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	Moderate Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Triethyl Borane

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Triethylene Glycol

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
KALREZ	No Effect
POLYCARBONATE (LEXAN)	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Trifluoroethane

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Trimethylene Glycol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	No Effect
HASTELLOY C	No Effect
TEFLON	No Effect
VITON	No Effect

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Trinitrotoluene

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	Moderate Effect

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Trioctyl Phosphate

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Triphenyl Phosphite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
KALREZ	No Effect

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Tripoly Phosphate

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Tripotassium Phosphate +H2O

Material Compatibility

MATERIAL	EFFECT
KALREZ	No Effect

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Trisodium Phosphate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
COPPER	**Severe Effect**
FLOURAZ	No Effect
KALREZ	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Tung Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Turbine Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	No Effect
CAST IRON	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	Moderate Effect
E.P.D.M.	No Effect
EPOXY	No Effect
NEOPRENE	**Severe Effect**
POLYACETAL	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	No Effect
RUBBER (Natural)	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Turbine Oil #15 (Mil-L-7808A)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Turbo Oil #35

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	Minor Effect
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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Turpentine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	Moderate Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
ECTFE	No Effect
EPOXY	Minor Effect
EPT	**Severe Effect**
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**

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NYLON (Polyamide) ---------- Moderate Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- No Effect
POLYCARBONATE (LEXAN) ---------- **Severe Effect**
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- **Severe Effect**
POLYETHYLENE LOW DENSITY ---------- **Severe Effect**
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- **Severe Effect**
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- Minor Effect

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TYGON (E-3606)

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	**Severe Effect**
Acetate Solvents	**Severe Effect**
Acetic Acid, 5%	Minor Effect
Acetic Acid, Glacial	Minor Effect
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Alcohol, Amyl	Minor Effect
Alcohol, Benzyl	Minor Effect
Alcohol, Butyl	Minor Effect
Alcohol, Ethyl	Moderate Effect
Aluminum Chloride	No Effect
Aluminum Chloride, 20%	Minor Effect
Aluminum Potassium Sulfate (Alum), 100%	Minor Effect
Aluminum Sulfate	Minor Effect
Amines	No Effect
Ammonia, Anhydrous, Liquid	Minor Effect
Ammonia, Liquids	Minor Effect
Ammonia, Nitrate	Minor Effect
Ammonium Carbonate	Minor Effect
Ammonium Chloride	Minor Effect
Ammonium Hydroxide	Minor Effect
Ammonium Nitrate	Minor Effect
Ammonium Phosphate, Monobasic	No Effect
Ammonium Sulfate	**Severe Effect**
Amyl Acetate	**Severe Effect**
Amyl Alcohol	Minor Effect
Amyl Chloride	Moderate Effect
Aniline	**Severe Effect**
Antimony Trichloride	No Effect
Aqua Regia	**Severe Effect**
Arsenic Acid	Minor Effect
Barium Carbonate	No Effect

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Barium Chloride ---------- Minor Effect
Barium Sulfide ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- Moderate Effect
Benzoic Acid ---------- Minor Effect
Borax ---------- No Effect
Boric Acid ---------- Minor Effect
Bromine, Liquid ---------- Minor Effect
Butane ---------- Moderate Effect
Butter ---------- Minor Effect
Buttermilk ---------- Minor Effect
Butyl Acetate ---------- **Severe Effect**
Calcium Bisulfate ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Sulfate ---------- No Effect
Carbon Bisulfide ---------- **Severe Effect**
Carbon Disulfide ---------- Moderate Effect
Carbon Tetrachloride ---------- Moderate Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorine, Anhydrous Liquid ---------- Minor Effect
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- Moderate Effect
Chlorosulfonic Acid ---------- Moderate Effect
Chlorox ---------- Minor Effect
Chromic Acid, 5% ---------- Minor Effect
Chromic Acid, 50% ---------- Minor Effect
Copper Chloride ---------- Minor Effect
Cresol ---------- **Severe Effect**
Cyclohexane ---------- **Severe Effect**
Cycolic Acid ---------- No Effect
Dichlorethane ---------- **Severe Effect**
Ethers ---------- Moderate Effect
Ethyl Acetate ---------- **Severe Effect**

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Ethyl Chloride ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- Minor Effect
Fatty Acids ---------- Minor Effect
Ferric Chloride ---------- Minor Effect
Ferric Sulfate ---------- Minor Effect
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Fluboric Acid ---------- Minor Effect
Fluosilicic Acid ---------- Minor Effect
Formaldehyde ---------- Minor Effect
Formic Acid ---------- Minor Effect
Freon 11 ---------- **Severe Effect**
Freon 113 ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Freon 22 ---------- **Severe Effect**
Freon T.F. ---------- **Severe Effect**
Gallic Acid ---------- No Effect
Glucose ---------- Minor Effect
Glue ---------- Minor Effect
Glycerine or Glycerol ---------- Minor Effect
Hydrobromic Acid ---------- Minor Effect
Hydrochloric Acid, 100% ---------- No Effect
Hydrochloric Acid, 20% ---------- Minor Effect
Hydrochloric Acid, 37% ---------- Minor Effect
Hydrocyanic Acid ---------- Minor Effect
Hydrofluoric Acid, 100% ---------- **Severe Effect**
Hydrofluoric Acid, 20% ---------- Minor Effect
Hydrofluoric Acid, 75% ---------- Minor Effect
Hydrofluosilicic Acid ---------- Moderate Effect
Hydrogen Peroxide ---------- Moderate Effect
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Sulfide, Aqueous ---------- Minor Effect
Iodine ---------- Minor Effect
Kerosene ---------- **Severe Effect**
Ketones ---------- **Severe Effect**

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Lacquers ---------- **Severe Effect**
Lactic Acid ---------- Minor Effect
Lead Acetate ---------- Minor Effect
Linseed Oil ---------- Minor Effect
Magnesium Chloride ---------- Minor Effect
Magnesium Sulfate ---------- Minor Effect
Maleic Acid ---------- Minor Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Naptha ---------- Moderate Effect
Nickel Chloride ---------- Minor Effect
Nickel Sulfate ---------- No Effect
Nitric Acid (Conc) ---------- Moderate Effect
Nitric Acid, 10% ---------- Minor Effect
Nitric Acid, 20% ---------- Minor Effect
Nitric Acid, 50% ---------- Minor Effect
Nitrobenzene ---------- **Severe Effect**
Oleic Acid ---------- Moderate Effect
Oxalic Acid ---------- Minor Effect
Phenol (Carbolic Acid) ---------- Moderate Effect
Phenol, 10% ---------- Moderate Effect
Phosphoric Anhydride (Dry or Moist) ---------- **Severe Effect**
Picric Acid ---------- No Effect
Potash ---------- Minor Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Minor Effect
Potassium Chloride ---------- No Effect
Potassium Hydroxide, 50% ---------- Minor Effect
Potassium Nitrate ---------- Moderate Effect
Potassium Sulfate ---------- No Effect
Pyridine ---------- **Severe Effect**
Silver Nitrate ---------- Minor Effect
Soaps ---------- Minor Effect
Sodium Bicarbonate ---------- Minor Effect
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- Minor Effect
Sodium Carbonate ---------- Minor Effect

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Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- Minor Effect
Sodium Fluoride ---------- **Severe Effect**
Sodium Hydrosulfite ---------- No Effect
Sodium Hydroxide ---------- Minor Effect
Sodium Hydroxide, 20% ---------- Minor Effect
Sodium Hydroxide, 50% ---------- Minor Effect
Sodium Hydroxide, 80% ---------- Minor Effect
Sodium Hypochlorite (to 20%) ---------- Minor Effect
Sodium Nitrate ---------- Minor Effect
Sodium Silicate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect
Sodium Sulfite ---------- No Effect
Stannous Chloride ---------- No Effect
Stearic Acid ---------- Minor Effect
Stoddard Solvent ---------- **Severe Effect**
Sulfur Chloride ---------- Moderate Effect
Sulfur Dioxide ---------- Minor Effect
Sulfur Trioxide ---------- Minor Effect
Sulfuric Acid, 10% ---------- Minor Effect
Sulfurous Acid ---------- Minor Effect
Tannic Acid ---------- Minor Effect
Tanning Liquors ---------- Minor Effect
Tartaric Acid ---------- Minor Effect
Toluene ---------- **Severe Effect**
Turpentine ---------- Minor Effect
Water Acid, Mine ---------- Minor Effect
Water, Distilled ---------- Minor Effect
Water, Fresh ---------- Minor Effect
Water, Salt ---------- Minor Effect
Zinc Sulfate ---------- Minor Effect

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Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Type 11 Fuel (Mil-S-3136)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Minor Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
POLYURETHANE, URETHANE	Minor Effect
VITON	No Effect

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Univis 40 (Hydr. Fluid)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Univolt #35 (Mineral Oil)

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Unsymmetrical Dimethyl Hydrazine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BUNA	Moderate Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	Moderate Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Urea

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
FLOURAZ	**Severe Effect**
NEOPRENE	Minor Effect
NORPRENE	**Severe Effect**
POLYCARBONATE (LEXAN)	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
RYTON	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Uric Acid

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ALUMINUM	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
TEFLON	No Effect

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Urine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	Minor Effect
CERAMIC	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	Minor Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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Valeric Acid

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	No Effect
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect

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Vanadium Ashes

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect

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Vanadium Pentoxide

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect

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Vanilla Extract

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Vapam

Material Compatibility

MATERIAL	EFFECT
ETHYLENE PROPYLENE	No Effect

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Varnish

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	Minor Effect
CARBON	No Effect
CARBON STEEL	Moderate Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
RUBBER (Natural)	**Severe Effect**

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SILICON ---------- Moderate Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Vegetable Juices

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Moderate Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
EPOXY	No Effect
FLOURAZ	No Effect
NEOPRENE	**Severe Effect**
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
RUBBER (Natural)	**Severe Effect**
SILICON	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Vegetable Oil (Hot)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect

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Vegetable Oils

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	Minor Effect
BUNA	Minor Effect
CARBON	Moderate Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	Moderate Effect
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	**Severe Effect**
POLYETHYLENE LOW DENSITY	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
RYTON	No Effect
TEFLON	No Effect

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VITON ---------- No Effect

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Versilube

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Versilube F-50

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Vinegar

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	Minor Effect
EPT	Moderate Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
MONEL	Moderate Effect
NEOPRENE	Minor Effect

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NORPRENE ---------- Moderate Effect
NORYL ---------- No Effect
NYLON (Polyamide) ---------- Moderate Effect
PHENOLIC ---------- Minor Effect
POLYACETAL ---------- Minor Effect
POLYETHYLENE ---------- Minor Effect
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- Minor Effect
RUBBER (Natural) ---------- Moderate Effect
RYTON ---------- No Effect
TEFLON ---------- No Effect
TITANIUM ---------- No Effect
VINYL ---------- No Effect
VITON ---------- Moderate Effect

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VINYL

Chemical Compatibility

CHEMICAL	EFFECT
Acetaldehyde	**Severe Effect**
Acetic Acid, 5%	**Severe Effect**
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetone	**Severe Effect**
Acetyl Chloride	No Effect
Alcohol, Butyl	Minor Effect
Alcohol, Ethyl	**Severe Effect**
Alcohol, Methyl	No Effect
Alcohol, Propyl	No Effect
Aluminum Ammonium Sulfate	No Effect
Aluminum Chloride	No Effect
Aluminum Sulfate	No Effect
Alums	No Effect
AMERSEP MP-7	No Effect
Amines	**Severe Effect**
Ammonium Carbonate	No Effect
Ammonium Chloride	No Effect
Ammonium Hydroxide	Moderate Effect
Ammonium Nitrate	No Effect
Ammonium Persulfate	No Effect
Ammonium Phosphate	No Effect
Ammonium Sulfate	No Effect
Amyl Acetate	**Severe Effect**
Amyl Chloride	**Severe Effect**
Aniline	**Severe Effect**
Aqua Ammonia	**Severe Effect**
Aqua Regia	Moderate Effect
Barium Sulfate	No Effect
Barium Sulfide	Moderate Effect
Beer	No Effect
Benzaldehyde	**Severe Effect**

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Benzene ---------- **Severe Effect**
Benzoic Acid ---------- Moderate Effect
Black Liquor ---------- **Severe Effect**
Bleach, 12.5% Active Chlorine ---------- No Effect
Borax ---------- No Effect
Boric Acid ---------- No Effect
Bromic Acid ---------- No Effect
Bromine Water ---------- **Severe Effect**
Bromine, Liquid ---------- Moderate Effect
Butane ---------- **Severe Effect**
Butyl Acetate ---------- **Severe Effect**
Butyric Acid ---------- **Severe Effect**
Calcium Bisulfite ---------- No Effect
Calcium Carbonate ---------- No Effect
Calcium Chloride ---------- No Effect
Calcium Hydroxide ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Nitrate ---------- No Effect
Carbon Tetrachloride ---------- **Severe Effect**
Caustic Soda ---------- **Severe Effect**
Chloral Hydrate ---------- No Effect
Chlorine Water ---------- No Effect
Chlorine, Liquid, Anhydrous ---------- No Effect
Chloroacetic Acid ---------- **Severe Effect**
Chlorobenzene ---------- **Severe Effect**
Chloroform ---------- **Severe Effect**
Chlorosulfonic Acid ---------- **Severe Effect**
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 50% ---------- Minor Effect
Citric Acid ---------- No Effect
Copper Chloride ---------- No Effect
Copper Sulfate ---------- No Effect
Cresol ---------- **Severe Effect**
Cresylic Acid ---------- No Effect
Crude Oil ---------- Minor Effect

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Cyclohexanol ---------- **Severe Effect**
Dextrose ---------- No Effect
Disodium Phosphate ---------- No Effect
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Chloride ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethylene Bromide ---------- **Severe Effect**
Ethylene Chloride ---------- No Effect
Ethylene Chlorohydrin ---------- **Severe Effect**
Ethylene Dichloride ---------- **Severe Effect**
Ethylene Glycol ---------- Minor Effect
Fatty Acids ---------- No Effect
Fatty Acids ---------- No Effect
Ferric Chloride ---------- No Effect
Ferric Sulfate ---------- No Effect
Ferrous Chloride ---------- No Effect
Ferrous Sulfate ---------- No Effect
Fluoboric Acid ---------- No Effect
Fluorboric Acid ---------- No Effect
Fluosilicic Acid ---------- Moderate Effect
Formaldehyde ---------- Moderate Effect
Formic Acid ---------- **Severe Effect**
Freon 12 ---------- **Severe Effect**
Freon 12,13,22,114,115 ---------- **Severe Effect**
Fruit Juice Pulp ---------- No Effect
Furfural ---------- **Severe Effect**
Gallic Acid ---------- No Effect
Gasoline, Refined ---------- Moderate Effect
Glucose ---------- No Effect
Glycerine or Glycerol ---------- No Effect
Hydrazine ---------- Moderate Effect
Hydrobomic Acid, 20% ---------- **Severe Effect**
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrocyanic Acid ---------- No Effect

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Hydrofluoric Acid, 50% ---------- No Effect
Hydrogen Peroxide, 50% ---------- **Severe Effect**
Hydrogen Peroxide, 90% ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- No Effect
Hypochlorous Acid ---------- No Effect
Iodine ---------- No Effect
Kerosene ---------- No Effect
Lactic Acid, 25% ---------- No Effect
Lead Acetate ---------- No Effect
Linseed Oil ---------- No Effect
Liquor, White ---------- **Severe Effect**
Magnesium Chloride ---------- No Effect
Magnesium Sulfate ---------- No Effect
Malic Acid ---------- No Effect
Mercuric Chloride ---------- No Effect
Mercury ---------- **Severe Effect**
Milk ---------- No Effect
Mixed Acids ---------- No Effect
Nickel Chloride ---------- No Effect
Nickel Sulfate ---------- No Effect
Nitric Acid, 10% ---------- Moderate Effect
Nitric Acid, 68% ---------- **Severe Effect**
Nitric Acid, Anhydrous ---------- **Severe Effect**
Oils and Fats ---------- **Severe Effect**
Oleic Acid ---------- No Effect
Oleum ---------- **Severe Effect**
Oxalic Acid ---------- No Effect
Perchloric Acid, 10% ---------- **Severe Effect**
Perchloric Acid, 70% ---------- **Severe Effect**
Phenol ---------- Moderate Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Picric Acid ---------- No Effect
Plating Solutions ---------- No Effect
Potassium Bromide ---------- No Effect
Potassium Chloride ---------- No Effect

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Potassium Dichromate	No Effect
Potassium Hydroxide	Moderate Effect
Potassium Permanganate 10%	No Effect
Sea Water	No Effect
Silver Nitrate	No Effect
Silver Plating Solutions	No Effect
Soaps	No Effect
Sodium Bicarbonate	No Effect
Sodium Bisulfate	No Effect
Sodium Bisulfite	No Effect
Sodium Borate	No Effect
Sodium Carbonate	No Effect
Sodium Chloride	No Effect
Sodium Ferrocyanide	No Effect
Sodium Fluoride	No Effect
Sodium Hydroxide	**Severe Effect**
Sodium Metaphosphate	No Effect
Sodium Nitrate	No Effect
Sodium Phosphate	No Effect
Sodium Sulfate	No Effect
Sodium Sulfide	No Effect
Sodium Sulfite	No Effect
Sodium Thiosulfate	No Effect
SP-90X	No Effect
Stannic Chloride	Moderate Effect
Steric Acid	No Effect
Sulfur	No Effect
Sulfur Dioxide, Dry	No Effect
Sulfur Dioxide, Wet	No Effect
Sulfuric Acid, 10%	No Effect
Sulfuric Acid, 75%	No Effect
Sulfuric Acid, 98.5%	**Severe Effect**
Sulfurous Acid	**Severe Effect**
Tannic Acid	No Effect
Tanning Liquors	No Effect
THIO-RED	No Effect

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Toluene	**Severe Effect**
Turpentine	No Effect
Urea	No Effect
Vinegar	No Effect
Water Acid, Mine	No Effect
Water, Distilled	No Effect
Water, Fresh	No Effect
Water, Salt	No Effect
Whiskey	No Effect
Wines	No Effect
Zinc Chloride	No Effect
Zinc Sulfate	No Effect

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Vinyl Acetate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	No Effect
COPPER	Minor Effect
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	Minor Effect
TEFLON	No Effect
VITON	**Severe Effect**

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Vinyl Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ALUMINUM	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	No Effect
E.P.D.M.	Moderate Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYPROPYLENE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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VITON (A-J)

Chemical Compatibility

CHEMICAL	EFFECT
1-Butene, 2-Ethyl	No Effect
1-Chlorol 1 Nitro Ethane	**Severe Effect**
1-Chloronaphthalene	Moderate Effect
1-Nitropropane	**Severe Effect**
Acetaldehyde	**Severe Effect**
Acetamide	**Severe Effect**
Acetate Solvents	**Severe Effect**
Acetic Acid	**Severe Effect**
Acetic Acid 100% Boiling	**Severe Effect**
Acetic Acid Vapors - 100% (Hot)	**Severe Effect**
Acetic Acid, 100% Solution	**Severe Effect**
Acetic Acid, 20%	Moderate Effect
Acetic Acid, 30%	**Severe Effect**
Acetic Acid, 5%	Moderate Effect
Acetic Acid, 50%	Moderate Effect
Acetic Acid, 50% Boiling	**Severe Effect**
Acetic Acid, 80%	**Severe Effect**
Acetic Acid, 80% Boiling	**Severe Effect**
Acetic Acid, Crude	Minor Effect
Acetic Acid, Glacial	**Severe Effect**
Acetic Anhydride	**Severe Effect**
Acetic Anhyrdide (Boiling)	**Severe Effect**
Acetone	**Severe Effect**
Acetone Cyanohydrin	**Severe Effect**
Acetonitrile (Methyl Cyanide)	**Severe Effect**
Acetophenone	**Severe Effect**
Acetyl Acetone	**Severe Effect**
Acetyl Chloride	Minor Effect
Acetylene (Ethyne)	No Effect
Acetylene Tetrabromide	No Effect
Acid (Mild)	No Effect
Acid Mine Water	Minor Effect

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Acids (Concentrated) ---------- No Effect
Acrolein (Acrylaldehyde) ---------- No Effect
Acrylonitrile ---------- **Severe Effect**
Adipic Acid ---------- No Effect
Aero Lubriplate ---------- No Effect
Aerosafe 2300 ---------- **Severe Effect**
Aerosafe 2300W ---------- **Severe Effect**
Aeroshell 17 Grease ---------- No Effect
Aeroshell 1AC ---------- No Effect
Aeroshell 750 ---------- No Effect
Aeroshell 7A Grease ---------- No Effect
Air ---------- No Effect
Alcohol ---------- **Severe Effect**
Alcohol, Amyl ---------- Moderate Effect
Alcohol, Benzyl ---------- No Effect
Alcohol, Butyl ---------- No Effect
Alcohol, Diacetone ---------- **Severe Effect**
Alcohol, Ethyl ---------- **Severe Effect**
Alcohol, Hexyl ---------- No Effect
Alcohol, Isobutyl ---------- No Effect
Alcohol, Isopropyl ---------- No Effect
Alcohol, Methyl ---------- **Severe Effect**
Alcohol, Octyl ---------- No Effect
Alcohol, Propyl ---------- No Effect
Alkaline Solutions ---------- No Effect
Alkazene ---------- Minor Effect
Allyl Alcohol ---------- Minor Effect
Allyl Bromide ---------- Minor Effect
Allyl Chloride ---------- Minor Effect
Almond Oil ---------- **Severe Effect**
Alum ---------- **Severe Effect**
Aluminum Acetate ---------- **Severe Effect**
Aluminum Ammonium Sulfate ---------- No Effect
Aluminum Bromide ---------- No Effect
Aluminum Chloride ---------- No Effect
Aluminum Chloride, 20% ---------- No Effect

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Aluminum Fluoride ---------- No Effect
Aluminum Hydroxide ---------- Minor Effect
Aluminum Hydroxide - Saturated ---------- Minor Effect
Aluminum Nitrate ---------- No Effect
Aluminum Nitride ---------- No Effect
Aluminum Phosphate ---------- No Effect
Aluminum Potassium Sulfate ---------- No Effect
Aluminum Potassium Sulfate (Alum), 10% ------- No Effect
Aluminum Potassium Sulfate (Alum), 100% ------ No Effect
Aluminum Potassium Sulfate, 10% Boiling ------ No Effect
Aluminum Potassium Sulfate, 2% Solution ------ No Effect
Aluminum Potassium Sulfate, Saturated Boiling No Effect
Aluminum Salts ---------- No Effect
Aluminum Sodium Sulfate ---------- No Effect
Aluminum Sulfate ---------- No Effect
Alums ---------- No Effect
AMERSEP MP-7 ---------- No Effect
Amines ---------- **Severe Effect**
Ammonia ---------- **Severe Effect**
Ammonia Gas, Cold ---------- Minor Effect
Ammonia Gas, Hot ---------- **Severe Effect**
Ammonia Liquors ---------- **Severe Effect**
Ammonia, 10% ---------- No Effect
Ammonia, Anhydrous, Liquid ---------- **Severe Effect**
Ammonia, Liquids ---------- **Severe Effect**
Ammonia, Nitrate ---------- **Severe Effect**
Ammonium Acetate ---------- No Effect
Ammonium Bicarbonate ---------- Minor Effect
Ammonium Bifluoride, 10% ---------- No Effect
Ammonium Carbonate ---------- Minor Effect
Ammonium Chloride ---------- Minor Effect
Ammonium Chloride, 1% ---------- No Effect
Ammonium Cupric Sulfate ---------- No Effect
Ammonium Diphosphate ---------- No Effect
Ammonium Fluoride ---------- Minor Effect
Ammonium Hydroxide ---------- **Severe Effect**

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Ammonium Hydroxide, 3 Molar ---------- **Severe Effect**
Ammonium Hydroxide, Concentrated ---------- **Severe Effect**
Ammonium Metaphosphate ---------- No Effect
Ammonium Monophosphate ---------- No Effect
Ammonium Nitrate ---------- No Effect
Ammonium Nitrite ---------- No Effect
Ammonium Persulfate ---------- No Effect
Ammonium Phosphate, Di-Basic ---------- No Effect
Ammonium Phosphate, Monobasic ---------- No Effect
Ammonium Phosphate, Tri-Basic ---------- No Effect
Ammonium Sulfate ---------- **Severe Effect**
Ammonium Sulfide ---------- **Severe Effect**
Ammonium Sulfite ---------- **Severe Effect**
Ammonium Sulphate 1%-5% ---------- No Effect
Ammonium Thiocyanate ---------- No Effect
Ammonium Thiosulfate ---------- No Effect
Amyl Acetate ---------- **Severe Effect**
Amyl Alcohol ---------- **Severe Effect**
Amyl Borate ---------- No Effect
Amyl Chloride ---------- No Effect
Amyl Chloronaphthalene ---------- No Effect
Amyl Naphthalene ---------- No Effect
Amyl Phenol ---------- No Effect
AN-O-3 Grade M ---------- No Effect
AN-O-366 ---------- No Effect
AN-O-6 ---------- No Effect
Anderol, L-774 (Di-Ester) ---------- No Effect
Anderol, L-826 (Di-Ester) ---------- No Effect
Anderol, L-829 (Di-Ester) ---------- No Effect
ANG-25 (Di-Ester Base) (TG749) ---------- No Effect
ANG-25 (Glyceral Ester) ---------- No Effect
Anhydrous Ammonia ---------- **Severe Effect**
Anhydrous Hydrazine ---------- **Severe Effect**
Anhydrous Hydrogen Fluoride ---------- **Severe Effect**
Aniline ---------- **Severe Effect**
Aniline Dyes ---------- Minor Effect

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Aniline Hydrochloride ---------- Minor Effect
Aniline Oil ---------- **Severe Effect**
Animal Fats & Oils ---------- No Effect
Animal Gelatin ---------- No Effect
Anisole ---------- **Severe Effect**
Ansul Ether ---------- **Severe Effect**
Anti-Freeze (Alcohol Base) ---------- No Effect
Anti-Freeze (Glycol Base) ---------- No Effect
Antimony Trichloride ---------- No Effect
Aqua Ammonia ---------- **Severe Effect**
Aqua Regia ---------- Minor Effect
Argon ---------- No Effect
Arochlor 1248 ---------- No Effect
Arochlor 1254 ---------- No Effect
Arochlor 1260 ---------- No Effect
Aroclor ---------- No Effect
Aromatic Fuel 30% Mil. ---------- No Effect
Aromatic Fuel 50% ---------- No Effect
Aromatic Hydrocarbons ---------- No Effect
Aromatic Solvents ---------- Minor Effect
Arsenic Acid ---------- No Effect
Arsenic Trichloride ---------- **Severe Effect**
Ascorbic Acid ---------- No Effect
Askarel ---------- Moderate Effect
Asphalt ---------- No Effect
Asphalt Topping ---------- **Severe Effect**
ASTM, Red Motor Fuel A ---------- No Effect
ASTM, Red Motor Fuel B ---------- No Effect
ASTM, Red Motor Fuel C ---------- No Effect
ASTM, Ref #1 Oil ---------- No Effect
ASTM, Ref #2 Oil ---------- No Effect
ASTM, Ref #3 Oil ---------- No Effect
ASTM, Ref #4 Oil ---------- No Effect
ATL-857 ---------- No Effect
Atlantic Dominion F ---------- No Effect
Aurex 903R (Mobil) ---------- No Effect

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Automatic Brake Fluid ---------- **Severe Effect**
Automatic Transmission Fluid ---------- No Effect
Automotive Gasoline (Standard) ---------- No Effect
Aviation Gasoline ---------- No Effect
Baking Enamels, Synthetic ---------- No Effect
Bardol B ---------- No Effect
Barium Carbonate ---------- No Effect
Barium Chloride ---------- Minor Effect
Barium Chloride Dihydrate ---------- No Effect
Barium Chloride, 5% ---------- No Effect
Barium Cyanide ---------- No Effect
Barium Fluoride ---------- Moderate Effect
Barium Hydroxide ---------- No Effect
Barium Nitrate ---------- Minor Effect
Barium Salts ---------- No Effect
Barium Sulfate ---------- Minor Effect
Barium Sulfide ---------- No Effect
Bay Oil ---------- No Effect
Bayol 35 ---------- No Effect
Bayol D ---------- No Effect
Beef Extract ---------- No Effect
Beer ---------- No Effect
Beer (Alcohol Ind.) ---------- No Effect
Beer (Beverage Ind.) ---------- No Effect
Beet Sugar Liquids ---------- No Effect
Beet Sugar Liquors ---------- No Effect
Benzaldehyde ---------- **Severe Effect**
Benzene ---------- No Effect
Benzene Sulfonic Acid ---------- No Effect
Benzine (Gasoline) ---------- No Effect
Benzochloride ---------- No Effect
Benzoic Acid ---------- Moderate Effect
Benzol ---------- Minor Effect
Benzophenone ---------- No Effect
Benzoyl Chloride ---------- Minor Effect
Benzyl Acetate ---------- **Severe Effect**

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Benzyl Alcohol ---------- No Effect
Benzyl Benzoate ---------- No Effect
Benzyl Chloride ---------- No Effect
Biphenyl ---------- No Effect
Bismuth Subcarbonate ---------- No Effect
Black Liquor ---------- No Effect
Black Point 77 ---------- No Effect
Black Sulfate Liquor ---------- No Effect
Blast Furnace Gas ---------- No Effect
Bleach Liquor ---------- No Effect
Bleach Solutions ---------- No Effect
Bleach, 12.5% Active Chlorine ---------- Minor Effect
Blood (Meat Juices-Cold) ---------- Minor Effect
Bone Oil ---------- No Effect
Borax ---------- Minor Effect
Bordeaux Mixture ---------- Minor Effect
Boric Acid ---------- Moderate Effect
Boron Fuels (HEF) ---------- No Effect
Brake Fluid ---------- **Severe Effect**
Brake Fluid (Non-Petroleum) ---------- **Severe Effect**
Brass Plating, HiSpeed Brass Bath 110 F ------ No Effect
Brass Plating, Reg Brass Bath 100 F ---------- No Effect
Bray GG - 130 ---------- No Effect
Brayco 719-R (VV-H-910) ---------- **Severe Effect**
Brayco 885 (Mil-L-6085A) ---------- No Effect
Brayco 910 ---------- **Severe Effect**
Bret 710 ---------- **Severe Effect**
Brewery Shop ---------- No Effect
Brewery Slop ---------- No Effect
Brine ---------- **Severe Effect**
Brom-114 ---------- Minor Effect
Bromine (Dry) ---------- No Effect
Bromine (Wet) ---------- No Effect
Bromine Pentafluoride ---------- **Severe Effect**
Bromine Trifluoride ---------- **Severe Effect**
Bromine Water ---------- Moderate Effect

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Bromine, Anhydrous ---------- No Effect
Bromine, Liquid ---------- No Effect
Bromobenzene ---------- Minor Effect
Bromochloro Trifluoroethane ---------- No Effect
Bromochloromethane ---------- Moderate Effect
Bromotoluene ---------- Minor Effect
Bronze Plating,
Copper-Cadmium Bronze Bath R.T. ------ No Effect
Bronze Plating, Copper-Tin Bronze Bath 160 F - No Effect
Bronze Plating, Copper-Zinc Bronze Bath 100 F No Effect
Bronzing Liquid ---------- **Severe Effect**
Bunker Oil (Fuel) #5,#6 & C ---------- No Effect
Butadiene ---------- Moderate Effect
Butane ---------- No Effect
Butane, 2,2-Dimethyl ---------- No Effect
Butane, 2,3-Dimethyl ---------- No Effect
Butanol ---------- No Effect
Butter ---------- No Effect
Butter - Animal Fat ---------- No Effect
Buttermilk ---------- No Effect
Butyl Acetate ---------- **Severe Effect**
Butyl Acetyl Ricinoleate ---------- Minor Effect
Butyl Acrylate ---------- **Severe Effect**
Butyl Alcohol ---------- No Effect
Butyl Amine ---------- **Severe Effect**
Butyl Benzoate ---------- No Effect
Butyl Bromide ---------- Minor Effect
Butyl Butyrate ---------- **Severe Effect**
Butyl Carbitol ---------- **Severe Effect**
Butyl Cellosolve ---------- Moderate Effect
Butyl Cellosolve Adipate ---------- Minor Effect
Butyl Chloride ---------- No Effect
Butyl Ether ---------- Moderate Effect
Butyl Oleate ---------- No Effect
Butyl Stearate ---------- Minor Effect
Butylamine FC75 (Fluorocarbon) ---------- Minor Effect

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Butylene ---------- No Effect
Butyraldehyde ---------- **Severe Effect**
Butyric Acid ---------- Moderate Effect
Cadmium Plating, Cyanide Bath 90 F ---------- No Effect
Cadmium Plating, Fluoborate Bath 100 F ------- No Effect
Calcine Liquirs ---------- No Effect
Calcium Acetate ---------- **Severe Effect**
Calcium Acetate Hydrate ---------- **Severe Effect**
Calcium Bisulfate ---------- No Effect
Calcium Bisulfide ---------- No Effect
Calcium Bisulfite ---------- Moderate Effect
Calcium Carbonate ---------- No Effect
Calcium Chlorate ---------- No Effect
Calcium Chloride ---------- **Severe Effect**
Calcium Hydrosulfide ---------- No Effect
Calcium Hydroxide ---------- **Severe Effect**
Calcium Hydroxide, 10% (Boiling) ---------- No Effect
Calcium Hydroxide, 20% (Boiling) ---------- No Effect
Calcium Hydroxide, 50% (Boiling) ---------- No Effect
Calcium Hypochloride ---------- No Effect
Calcium Hypochlorite ---------- No Effect
Calcium Hypochlorite, 5% 70 F ---------- No Effect
Calcium Nitrate ---------- No Effect
Calcium Phosphate ---------- No Effect
Calcium Salts ---------- No Effect
Calcium Silicate ---------- No Effect
Calcium Sulfate ---------- No Effect
Calcium Sulfate - Saturated ---------- No Effect
Calcium Sulfide ---------- No Effect
Calcium Sulfite ---------- No Effect
Calcium Thiosulfate ---------- No Effect
Calgon ---------- No Effect
Caliche Liquors ---------- No Effect
Cane Juice ---------- No Effect
Cane Sugar Liquors ---------- No Effect
Caproic Aldehyde ---------- **Severe Effect**

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Capryl Alcohol ---------- Minor Effect
Carbamate ---------- No Effect
Carbitol ---------- Moderate Effect
Carbolic Acid ---------- No Effect
Carbon Bisulfide ---------- Minor Effect
Carbon Dioxide ---------- No Effect
Carbon Dioxide, Wet ---------- Minor Effect
Carbon Disulfide ---------- Minor Effect
Carbon Monoxide ---------- Moderate Effect
Carbon Tetrachloride ---------- Minor Effect
Carbon Tetrachloride-Pure ---------- No Effect
Carbonate of Soda ---------- **Severe Effect**
Carbonated Water ---------- No Effect
Carbonic Acid ---------- No Effect
Casein ---------- No Effect
Casing Head Gas ---------- No Effect
Castor Oil ---------- No Effect
Catsup ---------- No Effect
Caustic Liquid ---------- No Effect
Caustic Soda ---------- **Severe Effect**
Cellosolve ---------- Minor Effect
Cellosolve Acetate ---------- **Severe Effect**
Cellosolve Butyl ---------- **Severe Effect**
Celluguard ---------- No Effect
Cellulose Acetate ---------- Moderate Effect
Cellulube Hydraulic Fluids ---------- Minor Effect
Cellulube Hydraulic Fluids (Phosphate Esters) Minor Effect
Cellutherm 2505A ---------- No Effect
Cetane (Hexadecane) ---------- No Effect
China Wood Oil (Tung Oil) ---------- No Effect
Chloracetic Acid ---------- **Severe Effect**
Chlorate of Lime ---------- **Severe Effect**
Chlorextol ---------- No Effect
Chlorinated Glue ---------- No Effect
Chlorinated Glue ---------- No Effect
Chlorinated Lime ---------- No Effect

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Chlorinated Lime, 35% (Bleach) ---------- No Effect
Chlorinated Salt Brine ---------- No Effect
Chlorinated Solvents ---------- Minor Effect
Chlorinated Solvents, Dry ---------- No Effect
Chlorinated Solvents, Wet ---------- No Effect
Chlorinated Water, Saturate ---------- Minor Effect
Chlorine ---------- **Severe Effect**
Chlorine Dioxide ---------- Minor Effect
Chlorine Trifluoride ---------- Moderate Effect
Chlorine Water ---------- No Effect
Chlorine, Anhydrous Liquid ---------- No Effect
Chlorine, Dry ---------- No Effect
Chlorine, Liquid, Anhydrous ---------- No Effect
Chlorine, Wet ---------- No Effect
Chloroacetic Acid ---------- **Severe Effect**
Chloroacetone ---------- Moderate Effect
Chlorobenzene ---------- No Effect
Chlorobromomethane ---------- No Effect
Chlorobutadiene ---------- No Effect
Chlorodane ---------- No Effect
Chlorododecane ---------- No Effect
Chloroform ---------- No Effect
Chlorosulfonic Acid ---------- **Severe Effect**
Chlorosulfonic Acid (Dry) ---------- Minor Effect
Chlorosulfonic Acid (Wet) ---------- **Severe Effect**
Chlorothene ---------- Moderate Effect
Chlorotoluene ---------- No Effect
Chlorox ---------- No Effect
Chocolate Syrup ---------- No Effect
Chrome Alum ---------- No Effect
Chrome Plating Solutions ---------- No Effect
Chromic Acid ---------- Minor Effect
Chromic Acid, 10% ---------- No Effect
Chromic Acid, 30% ---------- No Effect
Chromic Acid, 5% ---------- No Effect
Chromic Acid, 50% ---------- No Effect

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Chromic Oxide .88 Wt. % ---------- No Effect
Chromium Plating, Barrel Chrome Bath 95 F ---- Moderate Effect
Chromium Plating, Black Chrome Bath 115 F ---- Moderate Effect
Chromium Plating, Chromic-Sulfuric Bath 130 F Moderate Effect
Chromium Plating, Fluoride Bath 130 F -------- Moderate Effect
Chromium Plating, Fluosilicate Bath 95 F ----- Moderate Effect
Cider (Apple Juice) ---------- No Effect
Circo Light Process Oil ---------- No Effect
Citric Acid ---------- Moderate Effect
Citric Acid, 15% Solution ---------- No Effect
Citric Acid, 15% Solution (Boiling) ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution ---------- No Effect
Citric Acid, 5% Solution (@ 150 F) ---------- No Effect
Citric Acid, Concentrated (Boiling) ---------- No Effect
Citric Oils ---------- No Effect
Citrus Pectin Liquor ---------- No Effect
Coal Gas ---------- No Effect
Coal Tars ---------- No Effect
Cobalt Chloride ---------- No Effect
Coconut Oil ---------- No Effect
Cod Liver Oil ---------- No Effect
Coffee ---------- No Effect
Coke Oven Gas ---------- No Effect
Coolanol (Monsanto) ---------- No Effect
Copper (Misc),Copper (Electroless) 140 F ----- No Effect
Copper (Misc),Copper Pyrophosphate 140 F ----- No Effect
Copper Acetate ---------- **Severe Effect**
Copper Acetate, Saturated Solution ---------- **Severe Effect**
Copper Chloride ---------- No Effect
Copper Chloride, 1% ---------- No Effect
Copper Chloride, 5% Solution ---------- No Effect
Copper Cyanide ---------- No Effect
Copper Fluoborate ---------- No Effect
Copper Fluoride ---------- No Effect
Copper Fluoborate ---------- No Effect

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Copper Nitrate ---------- No Effect
Copper Nitrate Hexahydrate ---------- No Effect
Copper Nitrate, 1% & 5% ---------- No Effect
Copper Nitrate, 50% Aqueous Solution (Hot) --- No Effect
Copper Plating (Acid),
Copper Fluoborate Bath 120 F ---------- No Effect
Copper Plating (Acid),Copper Sulfate Bath R.T. No Effect
Copper Plating (Cyanide),
Copper Strike Bath 120 F ---------- Minor Effect
Copper Plating (Cyanide),Hi Speed Bath 180 F - No Effect
Copper Plating (Cyanide),
Rochelle Salt Bath 150 F ---------- No Effect
Copper Salts ---------- No Effect
Copper Sulfate ---------- Minor Effect
Copper Sulfate, 10% ---------- No Effect
Copper Sulfate, 5% ---------- No Effect
Copper Sulfate, 50% ---------- No Effect
Copper Sulfide ---------- No Effect
Copper Sulphate, Saturated Solution (Boiling) No Effect
Corn Oil ---------- **Severe Effect**
Cottonseed Oil ---------- No Effect
Cream ---------- No Effect
Creosols ---------- No Effect
Creosote, Coal-Tar ---------- No Effect
Creosote, Wood-Tar ---------- No Effect
Cresol ---------- Moderate Effect
Cresylic Acid ---------- No Effect
Crotonaldehyde ---------- No Effect
Crude Oil ---------- No Effect
Cumeme ---------- No Effect
Cutting Oil (Water Base) ---------- No Effect
Cyclohexane ---------- No Effect
Cyclohexanol ---------- Moderate Effect
Cyclohexanone ---------- **Severe Effect**
Cyclopentane ---------- No Effect
Cycolic Acid ---------- No Effect

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Cymene ---------- No Effect
D.D.T. ---------- No Effect
Decahydronaphthalene ---------- No Effect
Decalin ---------- No Effect
Decanal ---------- **Severe Effect**
Decane ---------- No Effect
Decyl Alcohol ---------- Minor Effect
Degreasing Fluid (Clorinated) ---------- No Effect
Denatured Alcohol ---------- Minor Effect
Detergent Solutions ---------- Moderate Effect
Developing Fluids & Solutions ---------- No Effect
Dextron ---------- No Effect
Dextrose ---------- No Effect
Di-Ester Lubricant Mil-L-7808 ---------- No Effect
Di-Ester Synthetic Lubricants ---------- No Effect
Diacetone ---------- **Severe Effect**
Diacetone Alcohol ---------- **Severe Effect**
Diazinon ---------- Minor Effect
Dibenzyl Ether ---------- Moderate Effect
Dibenzyl Sebecate ---------- Minor Effect
Dibromoethyl Benzene ---------- No Effect
Dibutyl Amine ---------- **Severe Effect**
Dibutyl Ether ---------- **Severe Effect**
Dibutyl Mercaptan ---------- No Effect
Dibutyl Phthalate ---------- **Severe Effect**
Dibutyl Sebecate ---------- Moderate Effect
Dichlorethane ---------- Moderate Effect
Dichloro Isopropyl Ether ---------- **Severe Effect**
Dichloro-Butane ---------- No Effect
Dichloroacetic Acid ---------- **Severe Effect**
Dichlorobutane ---------- No Effect
Dichloroethane ---------- No Effect
Dichlorophenol ---------- No Effect
Dicyclohexylamine ---------- Minor Effect
Diemethyl Formamide ---------- **Severe Effect**
Diesel Fuel ---------- No Effect

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Diesel Fuel Oil (2D,3D,4D,5D) ---------- No Effect
Diesel Oil (Fuel ASTM #2) ---------- No Effect
Diester Synthetic Oils ---------- No Effect
Diethanol Amine ---------- **Severe Effect**
Diethyl Amine ---------- **Severe Effect**
Diethyl Benzene ---------- No Effect
Diethyl Ether ---------- **Severe Effect**
Diethyl Phthalate ---------- Moderate Effect
Diethyl Sebacate ---------- Minor Effect
Diethyl Sulfate ---------- **Severe Effect**
Diethylamine ---------- **Severe Effect**
Diethylene Ether (Dioxane) ---------- **Severe Effect**
Diethylene Glycol ---------- No Effect
Diisobutyl Ketone ---------- **Severe Effect**
Diisobutylene ---------- Moderate Effect
Diisodecyl Adipate ---------- Moderate Effect
Diisodecyl Phthalate ---------- Moderate Effect
Diisooctyl Adipate ---------- Moderate Effect
Diisooctyl Phthalate ---------- Moderate Effect
Diisooctyl Sebecate ---------- Minor Effect
Diisopropyl Benzene ---------- No Effect
Diisopropyl Ketone ---------- **Severe Effect**
Dimethyl Aniline ---------- **Severe Effect**
Dimethyl Ether ---------- No Effect
Dimethyl Phthalate ---------- Moderate Effect
Dimethyl Sulfate ---------- **Severe Effect**
Dinitrotoluene ---------- **Severe Effect**
Dioctyl Phthalate ---------- Minor Effect
Dioctyl Sebecate ---------- **Severe Effect**
Dioctylphthalate ---------- Moderate Effect
Dioxalanes ---------- Moderate Effect
Dioxane ---------- **Severe Effect**
Dioxolane (Dioxalans) ---------- **Severe Effect**
Dipentene ---------- No Effect
Diphenyl ---------- No Effect
Diphenyl Oxide ---------- No Effect

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Dipropyl Ketone ---------- **Severe Effect**
Dipropylene Glycol ---------- No Effect
Dipsersing Oil #10 ---------- Moderate Effect
Disodium Phosphate ---------- No Effect
Divinyl Benzene ---------- No Effect
Dodecyl Benzene ---------- No Effect
Dow Corning (Silicones) ---------- No Effect
Dowtherm (Biphenyl & Phenyl Ether) ---------- No Effect
Dowtherm A ---------- No Effect
Dowtherm E ---------- No Effect
Drinking Water ---------- No Effect
Drycleaning Fluids ---------- No Effect
DTE Light Oil ---------- No Effect
Dyes ---------- No Effect
Elco 28-EP Lubricant ---------- No Effect
Epichlorohydrin ---------- **Severe Effect**
Epoxy Resins ---------- **Severe Effect**
Epsom Salts ---------- No Effect
Esam-6 Fluid ---------- **Severe Effect**
Esstic 42, 43 ---------- No Effect
Ethane ---------- No Effect
Ethanol ---------- **Severe Effect**
Ethanolamine ---------- **Severe Effect**
Ethers ---------- **Severe Effect**
Ethyl Acetate ---------- **Severe Effect**
Ethyl Acetoacetate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Acrylate ---------- **Severe Effect**
Ethyl Alcohol ---------- **Severe Effect**
Ethyl Aluminum Dichloride ---------- Minor Effect
Ethyl Amine ---------- **Severe Effect**
Ethyl Benzene ---------- No Effect
Ethyl Benzoate ---------- No Effect
Ethyl Bromide ---------- No Effect
Ethyl Butyl Acetate ---------- **Severe Effect**
Ethyl Butyl Alcohol ---------- Minor Effect

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Ethyl Butyl Ketone ---------- **Severe Effect**
Ethyl Butyraldehyde ---------- **Severe Effect**
Ethyl Butyrate ---------- **Severe Effect**
Ethyl Cellose ---------- **Severe Effect**
Ethyl Cellosolve ---------- **Severe Effect**
Ethyl Cellulose ---------- Moderate Effect
Ethyl Chloride ---------- Moderate Effect
Ethyl Chloride (Dry) ---------- **Severe Effect**
Ethyl Chlorocarbonate ---------- No Effect
Ethyl Chloroformate ---------- No Effect
Ethyl Cyanide ---------- **Severe Effect**
Ethyl Ether ---------- **Severe Effect**
Ethyl Formate ---------- No Effect
Ethyl Iodide ---------- Minor Effect
Ethyl Mercaptan ---------- **Severe Effect**
Ethyl Oxalate ---------- Minor Effect
Ethyl Pentachlorobenzene ---------- No Effect
Ethyl Silicate ---------- No Effect
Ethyl Sulfate ---------- No Effect
Ethylacrylic Acid ---------- No Effect
Ethylcyclopentane ---------- No Effect
Ethylene ---------- No Effect
Ethylene Bromide ---------- No Effect
Ethylene Chlorohydrin ---------- No Effect
Ethylene Diamine ---------- **Severe Effect**
Ethylene Dibromide ---------- Minor Effect
Ethylene Dichloride ---------- No Effect
Ethylene Glycol ---------- No Effect
Ethylene Glycol Monethyl Ether Acetate ------- **Severe Effect**
Ethylene Glycol Monobutyl ---------- Moderate Effect
Ethylene Glycol Monoethyl ---------- Moderate Effect
Ethylene Glycol Monomethyl ---------- **Severe Effect**
Ethylene Glycol Monomethyl Ether ---------- **Severe Effect**
Ethylene Oxide ---------- **Severe Effect**
Ethylene Oxide (12%) & Freon 12 (80%) -------- **Severe Effect**
Ethylene Trichloride ---------- No Effect

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Ethylhexyl Acetate ---------- **Severe Effect**
Ethylhexyl Alcohol ---------- Minor Effect
Ethylmorpholene Stannous Octoate (50/50 Mix) - **Severe Effect**
Fatty Acids ---------- No Effect
FC-43 Heptacosofluorotri-Butylamine FC75 ----- No Effect
Ferric Chloride ---------- Moderate Effect
Ferric Chloride, 1% ---------- No Effect
Ferric Chloride, 1% Solution (Boiling) ------- No Effect
Ferric Chloride, 10% Solution ---------- No Effect
Ferric Chloride, 5% Solution (Still) --------- No Effect
Ferric Hydroxide ---------- Moderate Effect
Ferric Nitrate ---------- No Effect
Ferric Sulfate ---------- Minor Effect
Ferrous Chloride ---------- Minor Effect
Ferrous Sulfate ---------- Minor Effect
Ferrous Sulfate, 10% Solution ---------- No Effect
Fish Liver Oils ---------- No Effect
Fish Oil ---------- No Effect
Fluboric Acid ---------- No Effect
Fluorboric Acid ---------- Moderate Effect
Fluorinated Cyclic Ether ---------- No Effect
Fluorine ---------- **Severe Effect**
Fluorine (Anhydrous) ---------- Minor Effect
Fluorine (Liquid) ---------- Minor Effect
Fluorobenzene ---------- No Effect
Fluorochloroethylene ---------- No Effect
Fluorolube ---------- Minor Effect
Fluosilicic Acid ---------- No Effect
Fluosilicic Acid ---------- No Effect
Formaldehyde ---------- **Severe Effect**
Formaldehyde, 40% ---------- **Severe Effect**
Formamide ---------- **Severe Effect**
Formic Acid ---------- **Severe Effect**
Formic Acid (Dilute Cold) ---------- **Severe Effect**
Formic Acid (Dilute Hot) ---------- **Severe Effect**
Freon ---------- Minor Effect

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Freon 11 ---------- Minor Effect
Freon 112 ---------- No Effect
Freon 113 ---------- Minor Effect
Freon 114 ---------- No Effect
Freon 114B2 ---------- Minor Effect
Freon 115 ---------- Minor Effect
Freon 12 ---------- Minor Effect
Freon 12,13,22,114,115 ---------- **Severe Effect**
Freon 13 ---------- No Effect
Freon 13B1 ---------- No Effect
Freon 14 ---------- No Effect
Freon 142b ---------- **Severe Effect**
Freon 152a ---------- **Severe Effect**
Freon 21 ---------- **Severe Effect**
Freon 218 ---------- No Effect
Freon 22 ---------- **Severe Effect**
Freon 31 ---------- **Severe Effect**
Freon 32 ---------- **Severe Effect**
Freon 502 ---------- Minor Effect
Freon C316 ---------- No Effect
Freon T-P35 ---------- No Effect
Freon T-WD602 ---------- No Effect
Freon T.F. ---------- Minor Effect
Freon TA ---------- **Severe Effect**
Freon TC ---------- No Effect
Freon TMC ---------- No Effect
Freon, BF ---------- No Effect
Freon, C318 ---------- Minor Effect
Freon, K-142B ---------- **Severe Effect**
Freon, K-152A ---------- **Severe Effect**
Freon, MF ---------- Minor Effect
Freon, PCA ---------- **Severe Effect**
Fruit Juice Pulp ---------- No Effect
Fruit Juices ---------- Minor Effect
Fuel Oil ---------- No Effect
Fuel Oil (1,2,3,5A,5B,6) ---------- No Effect

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Fumaric Acid ---------- No Effect
Fuming Sulphuric Acid (20/25% Oleum) --------- No Effect
Furan ---------- Moderate Effect
Furan Resin ---------- No Effect
Furfural ---------- **Severe Effect**
Furfuraldehyde ---------- **Severe Effect**
Furfuryl Alcohol ---------- **Severe Effect**
Fusel Oil ---------- No Effect
Fyrquel 90,100,150m 220, 300,500 ---------- **Severe Effect**
Fyrquel A60 ---------- **Severe Effect**
Gallic Acid ---------- No Effect
Gasoline (Meter) ---------- No Effect
Gasoline (Petrol) ---------- Minor Effect
Gasoline (Unleaded) ---------- No Effect
Gasoline, Refined ---------- No Effect
Gelatin ---------- Minor Effect
Ginger Oil ---------- No Effect
Glacial Acetic Acid ---------- **Severe Effect**
Glauber's Salt ---------- No Effect
Gluconic Acid ---------- No Effect
Glucose ---------- No Effect
Glue ---------- Minor Effect
Glycerine or Glycerol ---------- Minor Effect
Glycolic Acid ---------- No Effect
Glycols ---------- No Effect
Gold Monocyanide ---------- **Severe Effect**
Gold Plating, Acid 75 F ---------- No Effect
Gold Plating, Cyanide 150 F ---------- No Effect
Gold Plating, Neutral 75 F ---------- No Effect
Grape Juice ---------- No Effect
Grease ---------- No Effect
Grease (Ester Base) ---------- No Effect
Grease (Petroleum Base) ---------- No Effect
Green Sulfate Liquor ---------- No Effect
Halothane ---------- No Effect
Halowax Oil ---------- No Effect

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Hannifin Lube A ---------- No Effect
HEF-2 (High Energy Fuel) ---------- No Effect
Helium ---------- No Effect
Heptanal ---------- **Severe Effect**
Heptane ---------- No Effect
Hexalin ---------- No Effect
Hexanal ---------- Moderate Effect
Hexane ---------- No Effect
Hexanol, Tertiary ---------- No Effect
Hexyl Alcohol ---------- No Effect
Hexylene Glycol ---------- No Effect
High Viscosity Lubricant, H2 ---------- No Effect
High Viscosity Lubricant, U4 ---------- No Effect
Hilo MS #1 ---------- **Severe Effect**
Honey ---------- No Effect
Houghto-Safe 1010, Phosphate Ester ---------- No Effect
Houghto-Safe 1055, Phosphate Ester ---------- No Effect
Houghto-Safe 1120, Phosphate Ester ---------- No Effect
Houghto-Safe 271 (Water & Glycol Base) ------- Minor Effect
Houghto-Safe 5040 (Water/Oil Emulsion) ------- No Effect
Houghto-Safe 620Water/Glycol ---------- Minor Effect
Hydraulic Oil ---------- Moderate Effect
Hydraulic Oils (Petroleum) ---------- No Effect
Hydraulic Oils (Synthetic) ---------- No Effect
Hydrazine ---------- **Severe Effect**
Hydrobomic Acid, 20% ---------- No Effect
Hydrobromic Acid ---------- No Effect
Hydrobromic Acid 40% ---------- No Effect
Hydrobromic Acid, 20% ---------- No Effect
Hydrocarbons (Saturated) ---------- No Effect
Hydrocarbons, Pure ---------- Minor Effect
Hydrochloric Acid ---------- Moderate Effect
Hydrochloric Acid (Conc.) ---------- No Effect
Hydrochloric Acid (Dilute) ---------- No Effect
Hydrochloric Acid 20% ---------- No Effect
Hydrochloric Acid, 100% ---------- Moderate Effect

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Hydrochloric Acid, 20% ---------- No Effect
Hydrochloric Acid, 37% ---------- No Effect
Hydrocloric Acid 3 Molar ---------- No Effect
Hydrocloric Acid Concentrated ---------- No Effect
Hydrocyanic Acid ---------- No Effect
Hydrofluoric Acid ---------- **Severe Effect**
Hydrofluoric Acid 65% or less, Cold ---------- No Effect
Hydrofluoric Acid 65% or Less, Hot ---------- No Effect
Hydrofluoric Acid 65% or More, Cold ---------- Minor Effect
Hydrofluoric Acid 65% or More, Hot ---------- **Severe Effect**
Hydrofluoric Acid Anhydrous ---------- **Severe Effect**
Hydrofluoric Acid, (Conc) ---------- Minor Effect
Hydrofluoric Acid, 20% ---------- No Effect
Hydrofluoric Acid, 50% ---------- Moderate Effect
Hydrofluoric Acid, 75% ---------- No Effect
Hydrofluosilicic Acid ---------- **Severe Effect**
Hydrofluosilicic Acid, 20% ---------- No Effect
Hydrogen ---------- No Effect
Hydrogen Fluoride, Anhydrous ---------- No Effect
Hydrogen Gas ---------- No Effect
Hydrogen Gas (Cold) ---------- No Effect
Hydrogen Gas (Hot) ---------- No Effect
Hydrogen Peroxide ---------- **Severe Effect**
Hydrogen Peroxide, 10% ---------- No Effect
Hydrogen Peroxide, 3% ---------- No Effect
Hydrogen Peroxide, 30% ---------- No Effect
Hydrogen Peroxide, 50% ---------- No Effect
Hydrogen Peroxide, 90% ---------- No Effect
Hydrogen Sulfide ---------- Moderate Effect
Hydrogen Sulfide (Dry) ---------- No Effect
Hydrogen Sulfide Dry, Cold ---------- **Severe Effect**
Hydrogen Sulfide Dry, Hot ---------- **Severe Effect**
Hydrogen Sulfide Wet, Cold ---------- **Severe Effect**
Hydrogen Sulfide Wet, Hot ---------- **Severe Effect**
Hydrogen Sulfide, Aqueous ---------- **Severe Effect**
Hydrolube-Water/Ethylene Glycol ---------- No Effect

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Hydroquinone ---------- Moderate Effect
Hydroxyacetic Acid, 70% ---------- No Effect
Hydyne ---------- **Severe Effect**
Hypochlorous Acid ---------- No Effect
Indium Sulfamate Plating R.T. ---------- No Effect
Ink ---------- No Effect
Ink (Printers) ---------- No Effect
Iodine ---------- **Severe Effect**
Iodine (In Alcohol) ---------- No Effect
Iodine Pentafluoride ---------- **Severe Effect**
Iodoform ---------- Moderate Effect
Iron Plating, Ferrous Am. Sulfate Bath 150 F - No Effect
Iron Plating, Ferrous Chloride Bath 190 F ---- No Effect
Iron Plating, Ferrous Sulfate Bath 150 F ----- No Effect
Iron Plating, Fluoborate Bath 145 F ---------- No Effect
Iron Plating, Sulfamate 140 F ---------- No Effect
Iron Plating, Sulfate-Chloride Bath 160 F ---- No Effect
Iso-Butyl N-Butyrate ---------- No Effect
Isoamyl Acetate ---------- **Severe Effect**
Isoamyl Alcohol ---------- No Effect
Isoamyl Butyrate ---------- **Severe Effect**
Isoamyl Chloride ---------- No Effect
Isobutyl Acetate ---------- **Severe Effect**
Isobutyl Alcohol ---------- No Effect
Isobutyl Amine ---------- **Severe Effect**
Isobutyl Chloride ---------- Minor Effect
Isododecane ---------- No Effect
Isooctane ---------- No Effect
Isopar G ---------- No Effect
Isopentane ---------- No Effect
Isophorone ---------- **Severe Effect**
Isopropanol ---------- No Effect
Isopropyl Acetate ---------- **Severe Effect**
Isopropyl Alcohol ---------- No Effect
Isopropyl Amine ---------- **Severe Effect**
Isopropyl Benzene ---------- No Effect

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Isopropyl Chloride ---------- Minor Effect
Isopropyl Ether ---------- **Severe Effect**
Isotane ---------- No Effect
Jet Fuel (JP3,JP4,JP5) ---------- No Effect
Jet Fuels (JP1 to JP6) ---------- No Effect
JP-1 ---------- No Effect
JP-2 ---------- No Effect
JP-3 (Mil-J-5624) ---------- No Effect
JP-4 (Mil-J-5624) ---------- No Effect
JP-5 (Mil-J-5624) ---------- No Effect
JP-6 (Mil-J-25656) ---------- No Effect
JP-X (Mil-F-25604) ---------- **Severe Effect**

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VITON (K-Z)

Chemical Compatibility

CHEMICAL	EFFECT
Kel F Liquids	Minor Effect
Kerosene	No Effect
Ketones	**Severe Effect**
Keystone #87HX-Grease	No Effect
Lacquer Solvents	**Severe Effect**
Lacquers	**Severe Effect**
Lactam-Amino Acids	**Severe Effect**
Lactic Acid	Minor Effect
Lactic Acid 10% Solution (Boiling)	**Severe Effect**
Lactic Acid, 25%	No Effect
Lactic Acid, 5% Solution	No Effect
Lactol	No Effect
Lard	No Effect
Lard Oil	No Effect
Lard Oil	No Effect
Lard Oil (Cold)	No Effect
Lard Oil (Hot)	No Effect
Latex	No Effect
Lauryl Alcohol	Minor Effect
Lavender Oil	Minor Effect
Lead Acetate	**Severe Effect**
Lead Fluoborate Plating	No Effect
Lead Nitrate	No Effect
Lead Sulfamate	No Effect
Lehigh X1169	No Effect
Lehigh X1170	No Effect
Lemon Oil	No Effect
Light Grease	No Effect
Lignin Liquor	No Effect
Ligroin	No Effect
Lime	No Effect
Lime Bleach	No Effect

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Lime Slurries ---------- Minor Effect
Lime Sulfur ---------- No Effect
Lime, Soda ---------- Minor Effect
Limonene ---------- No Effect
Lindol ---------- Minor Effect
Linoleic Acid ---------- Moderate Effect
Linseed Oil ---------- No Effect
Liquid Oxygen ---------- **Severe Effect**
Lithium Bromide ---------- No Effect
Lithium Chloride ---------- **Severe Effect**
Lubricants ---------- No Effect
Lubricating Oil Di-Ester ---------- No Effect
Lubricating Oil Petroleum Base ---------- No Effect
Lubricating Oil SAE10,20,30,40,50 ---------- No Effect
Lubricating Oils ---------- No Effect
Lye ---------- Minor Effect
Magnesium Carbonate ---------- No Effect
Magnesium Chloride ---------- Moderate Effect
Magnesium Hydroxide ---------- **Severe Effect**
Magnesium Hydroxide ---------- No Effect
Magnesium Hydroxide (Hot) ---------- No Effect
Magnesium Nitrate ---------- No Effect
Magnesium Oxide ---------- Moderate Effect
Magnesium Salts ---------- No Effect
Magnesium Sulfate ---------- No Effect
Magnesium Sulfide ---------- **Severe Effect**
Magnesium Sulfite ---------- No Effect
Malathion ---------- No Effect
Maleic Acid ---------- No Effect
Maleic Anhydride ---------- No Effect
Malic Acid ---------- Moderate Effect
Malt Beverages ---------- No Effect
Manganese Chloride ---------- **Severe Effect**
Manganese Sulfate ---------- **Severe Effect**
Maple Sugar Liquors ---------- No Effect
Mash ---------- No Effect

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Mayonnaise ---------- No Effect
MCS 312 ---------- No Effect
MCS 352 ---------- **Severe Effect**
MCS 463 ---------- **Severe Effect**
Mercuric Chloride ---------- No Effect
Mercuric Chloride (Dilute Solution) ---------- No Effect
Mercuric Cyanide ---------- No Effect
Mercuric Sulfate ---------- **Severe Effect**
Mercurous Nitrate ---------- No Effect
Mercury ---------- No Effect
Mesityl Oxide ---------- **Severe Effect**
Methane ---------- No Effect
Methanol (See Alcohol Methyl) ---------- **Severe Effect**
Methyl Acetate ---------- **Severe Effect**
Methyl Acetoacetate ---------- **Severe Effect**
Methyl Acetone ---------- **Severe Effect**
Methyl Acrylate ---------- **Severe Effect**
Methyl Acrylic Acid ---------- **Severe Effect**
Methyl Alcohol ---------- **Severe Effect**
Methyl Amine ---------- No Effect
Methyl Amyl Acetate ---------- **Severe Effect**
Methyl Amyl Alcohol ---------- **Severe Effect**
Methyl Bromide ---------- No Effect
Methyl Butyl Ketone ---------- **Severe Effect**
Methyl Carbonate ---------- No Effect
Methyl Cellosolve ---------- **Severe Effect**
Methyl Cellulose ---------- **Severe Effect**
Methyl Chloride ---------- **Severe Effect**
Methyl Chloroformate ---------- No Effect
Methyl Cyclopentane ---------- No Effect
Methyl Dichloride ---------- No Effect
Methyl Ether ---------- No Effect
Methyl Ethyl Ketone ---------- **Severe Effect**
Methyl Ethyl Ketone Peroxide ---------- **Severe Effect**
Methyl Formate ---------- **Severe Effect**
Methyl Hexane ---------- No Effect

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Methyl Isobutyl Ketone ---------- **Severe Effect**
Methyl Isopropyl Ketone ---------- **Severe Effect**
Methyl Methacrylate ---------- **Severe Effect**
Methyl Oleate ---------- Minor Effect
Methyl Propyl Ketone ---------- **Severe Effect**
Methyl Salicylate ---------- Minor Effect
Methylacrylic Acid ---------- Minor Effect
Methylamine ---------- No Effect
Methylene Bromide ---------- Minor Effect
Methylene Chloride ---------- Minor Effect
Methylene Dichloride ---------- No Effect
Milk ---------- No Effect
Mine Water ---------- Minor Effect
Mineral Oils ---------- Minor Effect
Mixed Acids ---------- **Severe Effect**
MLO-7277 Hydr. ---------- No Effect
MLO-7557 ---------- No Effect
MLO-8200 Hydr. ---------- No Effect
MLO-8515 ---------- No Effect
Molasses ---------- No Effect
Molybdic Acid ---------- No Effect
Monobromobenzene ---------- No Effect
Monochlorobenzene ---------- No Effect
Monochlorodifluoro Methane ---------- No Effect
Monoethanolamine ---------- **Severe Effect**
Monomethylaniline ---------- Minor Effect
Mononitrotoluene & Dinitrotoluene (40/60 Mix) **Severe Effect**
Monovinyl Acetylene ---------- No Effect
Mustard ---------- **Severe Effect**
N,N-Dimethyl Formamide ---------- **Severe Effect**
N,N-Dimethylaniline ---------- **Severe Effect**
n-Amyl Amine ---------- **Severe Effect**
n-Butyl Acetate ---------- **Severe Effect**
N-Butyl Benzoate ---------- No Effect
N-Butyl Ether ---------- **Severe Effect**
N-Hexaldehyde ---------- **Severe Effect**

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n-Hexane ---------- No Effect
n-Hexane 1 ---------- No Effect
N-Hexene-1 ---------- No Effect
N-Methyl Aniline ---------- Moderate Effect
n-Octane ---------- No Effect
N-Pentane ---------- No Effect
n-Propyl Acetate ---------- **Severe Effect**
N-Propyl Acetone ---------- **Severe Effect**
n-Propyl Nitrate ---------- Moderate Effect
Napalm ---------- No Effect
Naphtha Coal Tar (Benzol) ---------- No Effect
Naphtha, Petroleum ---------- No Effect
Naphtha, Petroleum ---------- No Effect
Naphthalene ---------- No Effect
Naphthalene ---------- No Effect
Naphthoic Acid ---------- No Effect
Naptha ---------- No Effect
Naptha-Coal Tar (Benzol) ---------- No Effect
Napthalene ---------- Moderate Effect
Napthenic Acid ---------- No Effect
Natural Gas ---------- No Effect
Neatsfoot Oil ---------- No Effect
Neohexane ---------- No Effect
Neon ---------- No Effect
Neosol ---------- Moderate Effect
Neville Acid ---------- Minor Effect
Nickel Acetate ---------- **Severe Effect**
Nickel Chloride ---------- **Severe Effect**
Nickel Nitrate ---------- No Effect
Nickel Plating, Electroless 200 F ---------- No Effect
Nickel Plating, Fluoborate 100-170 F --------- No Effect
Nickel Plating, High Chloride 130-160 F ------ No Effect
Nickel Plating, Sulfamate 100-140 F ---------- No Effect
Nickel Plating, Watts Type 115-160 F --------- No Effect
Nickel Salts ---------- No Effect
Nickel Sulfate ---------- **Severe Effect**

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Niter Coke ---------- **Severe Effect**
Nitrana ---------- Moderate Effect
Nitric Acid ---------- **Severe Effect**
Nitric Acid & Hydrochloric Acid ---------- No Effect
Nitric Acid (Conc) ---------- Minor Effect
Nitric Acid (Red Fuming) ---------- Minor Effect
Nitric Acid 3 Molar ---------- No Effect
Nitric Acid Concentrated Boiling ---------- **Severe Effect**
Nitric Acid Inhibited Red Fuming (IRFNA) ----- Minor Effect
Nitric Acid, 10% ---------- No Effect
Nitric Acid, 20% ---------- Minor Effect
Nitric Acid, 25% ---------- No Effect
Nitric Acid, 35% ---------- No Effect
Nitric Acid, 50% ---------- No Effect
Nitric Acid, 50% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 65% Solution (Boiling) ---------- **Severe Effect**
Nitric Acid, 68% ---------- Moderate Effect
Nitric Acid, 70% ---------- No Effect
Nitric Acid, Anhydrous ---------- Moderate Effect
Nitric Oxide ---------- **Severe Effect**
Nitrobenzene ---------- **Severe Effect**
Nitroethane ---------- **Severe Effect**
Nitrogen ---------- No Effect
Nitrogen Tetroxide ---------- Moderate Effect
Nitromethane ---------- **Severe Effect**
Nitropropane ---------- **Severe Effect**
O-Chloronaphthalene ---------- No Effect
o-Chlorophenol ---------- Minor Effect
O-Chlorphenol ---------- No Effect
o-Dichlorobenzene ---------- No Effect
Octachlorotoluene ---------- No Effect
Octadecane ---------- No Effect
Octyl Acetate ---------- **Severe Effect**
Octyl Alcohol ---------- No Effect
Oil - No. 1 ASTM ---------- No Effect
Oil - No. 3 ASTM ---------- No Effect

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Oils, Crude ---------- Minor Effect
Oleic Acid ---------- Moderate Effect
Olein ---------- No Effect
Oleum ---------- **Severe Effect**
Oleum (Fuming Sulfuric Acid) ---------- No Effect
Oleum Spirits ---------- No Effect
Oleum, 25% ---------- No Effect
Olive Oil ---------- No Effect
Orange Oil ---------- No Effect
Oronite 8200 ---------- No Effect
Oronite 8515 ---------- No Effect
Ortho-Dichlorobenzene ---------- No Effect
Orthochloro Ethyl Benzene ---------- No Effect
OS 45 Type III (OS45) ---------- No Effect
OS 45 Type IV (OS45-1) ---------- No Effect
OS 70 ---------- No Effect
Oxalic Acid ---------- No Effect
Oxalic Acid, 10% Solution ---------- No Effect
Oxalic Acid, 10% Solution (Boiling) ---------- No Effect
Oxalic Acid, 5% (Hot and Cold) ---------- No Effect
Oxygen, 200-400 degrees F ---------- Minor Effect
Oxygen, Cold ---------- No Effect
Ozone ---------- No Effect
Ozone (Dry) ---------- No Effect
Ozone (Wet) ---------- No Effect
P-Cymene ---------- **Severe Effect**
P-Dichlorobenzene ---------- No Effect
P-Tertiary Butyl Catechol ---------- No Effect
Paint Thinner, DUCO ---------- Minor Effect
Palm Oil ---------- No Effect
Palmitic Acid ---------- No Effect
Para-Dichlorobenzene ---------- No Effect
Paraffins (Paraffin Oil) ---------- No Effect
Paraformaldehyde ---------- Moderate Effect
Paraldehyde ---------- **Severe Effect**
Paralketone ---------- **Severe Effect**

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Peanut Oil ---------- No Effect
Pentachloroethane ---------- No Effect
Pentachlorophenol ---------- No Effect
Pentane, 2 Methyl ---------- No Effect
Pentane, 2-4, Dimethyl ---------- No Effect
Pentane, 3-Methyl ---------- No Effect
Penthane ---------- No Effect
Peppermint Oil ---------- No Effect
Perchloric Acid ---------- No Effect
Perchloric Acid, 10% ---------- No Effect
Perchloric Acid, 70% ---------- No Effect
Perchloroethylene ---------- No Effect
Permachlor (Degreasing Fluid) ---------- No Effect
Petrolatum ---------- No Effect
Petroleum Ether ---------- No Effect
Petroleum Oil, Above 250 degrees F ---------- Minor Effect
Petroleum Oil, Below 250 degrees F ---------- No Effect
Petroleum Oil, Crude ---------- No Effect
Petroleum Oils (Sour) ---------- No Effect
Petroleum Oils (Sour) ---------- No Effect
Phenethyl Alcohol ---------- **Severe Effect**
Phenol ---------- No Effect
Phenol (Carbolic Acid) ---------- No Effect
Phenol Sulfonic Acid ---------- **Severe Effect**
Phenol, 10% ---------- Minor Effect
Phenol, 70%/30% H2O ---------- No Effect
Phenol, 85%/15% H2O ---------- No Effect
Phenyl Acetate ---------- **Severe Effect**
Phenyl Ethyl Ether ---------- Moderate Effect
Phenyl Hydrazine ---------- No Effect
Phenylbenzene ---------- No Effect
Phorone ---------- **Severe Effect**
Phosphoric Acid ---------- Moderate Effect
Phosphoric Acid (Conc) ---------- No Effect
Phosphoric Acid (Crude) ---------- No Effect
Phosphoric Acid, 1% Solution ---------- No Effect

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Phosphoric Acid, 10% ---------- No Effect
Phosphoric Acid, 10% Solution (Hot) ---------- No Effect
Phosphoric Acid, 20% ---------- No Effect
Phosphoric Acid, 25% ---------- No Effect
Phosphoric Acid, 3 Molar ---------- No Effect
Phosphoric Acid, 5% Solution ---------- No Effect
Phosphoric Acid, 50% ---------- No Effect
Phosphoric Acid, 50% Solution (Hot) ---------- No Effect
Phosphoric Acid, 85% Solution ---------- No Effect
Phosphoric Acid, 85% Solution (Hot) ---------- No Effect
Phosphoric Anhydride (Dry or Moist) ---------- **Severe Effect**
Phosphoric Anhydride (Molten) ---------- **Severe Effect**
Phosphorus Trichloride ---------- No Effect
Photographic Developers ---------- Moderate Effect
Photographic Fixer ---------- Minor Effect
Photographic Solutions ---------- No Effect
Phthalic Anhydride ---------- No Effect
Pickling Solution ---------- Minor Effect
Picric Acid ---------- No Effect
Picric Acid, H2O Solution ---------- No Effect
Picric Acid, Molten ---------- No Effect
Pine Oil ---------- No Effect
Pinene ---------- No Effect
Piperidine ---------- **Severe Effect**
Pitch ---------- No Effect
Plating Solution, Chrome ---------- No Effect
Plating Solution, Others ---------- Minor Effect
Plating Solutions ---------- No Effect
Plating Solutions, Antimony ---------- No Effect
Plating Solutions, Arsenic ---------- No Effect
Pneumatic Service ---------- No Effect
Potash ---------- No Effect
Potassium Acetate ---------- **Severe Effect**
Potassium Bicarbonate ---------- No Effect
Potassium Bisulfate ---------- No Effect
Potassium Bisulfite ---------- No Effect

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Potassium Bromide ---------- No Effect
Potassium Carbonate ---------- Minor Effect
Potassium Chlorate ---------- Moderate Effect
Potassium Chloride ---------- Moderate Effect
Potassium Chloride, Boiling ---------- No Effect
Potassium Chromate ---------- No Effect
Potassium Copper Cyanide ---------- Minor Effect
Potassium Cupro Cyanide ---------- No Effect
Potassium Cyanide ---------- No Effect
Potassium Dichromate ---------- Minor Effect
Potassium Ferrocyanide ---------- No Effect
Potassium Hydroxide ---------- **Severe Effect**
Potassium Hydroxide, 5% Solution ---------- No Effect
Potassium Hydroxide, 50% ---------- Minor Effect
Potassium Hydroxide, 70% Solution ---------- No Effect
Potassium Hydroxide, 70% Solution (Hot) ------ No Effect
Potassium Iodide ---------- No Effect
Potassium Nitrate ---------- Moderate Effect
Potassium Nitrate 1% to 5% ---------- No Effect
Potassium Nitrite ---------- No Effect
Potassium Permanganate ---------- Minor Effect
Potassium Permanganate 10% ---------- No Effect
Potassium Permanganate, 5% ---------- No Effect
Potassium Phosphate ---------- No Effect
Potassium Salts ---------- No Effect
Potassium Silicate ---------- No Effect
Potassium Sulfate ---------- Moderate Effect
Potassium Sulfate, 1% and 5% ---------- No Effect
Potassium Sulfide ---------- No Effect
Potassium Sulfite ---------- No Effect
Potassium Sulphate ---------- No Effect
Potassium Sulphite or Nitrate ---------- No Effect
Prestone ---------- No Effect
PRL-High Temp. Hydr. Oil ---------- No Effect
Producer Gas ---------- No Effect
Propane ---------- No Effect

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Propane (Liquefied) ---------- No Effect
Propane Propionitrile ---------- No Effect
Propionaldehyde ---------- **Severe Effect**
Propionic Acid ---------- No Effect
Propyl Acetate ---------- **Severe Effect**
Propyl Alcohol ---------- No Effect
Propyl Nitrate ---------- **Severe Effect**
Propylene ---------- No Effect
Propylene Dichloride ---------- Minor Effect
Propylene Glycol ---------- No Effect
Propylene Oxide ---------- **Severe Effect**
Pydraul ---------- No Effect
Pydraul 10E, 29 ELT ---------- No Effect
Pydraul 115E ---------- No Effect
Pydraul 230E, 312C, 540C ---------- No Effect
Pydraul 30E, 50E, 65E, 90E ---------- No Effect
Pyranol ---------- No Effect
Pyranol, Transformer Oil ---------- No Effect
Pyridine ---------- **Severe Effect**
Pyridine Oil ---------- **Severe Effect**
Pyrogallic Acid ---------- Minor Effect
Pyroligneous Acid ---------- **Severe Effect**
Pyrolube ---------- No Effect
Pyrrole ---------- **Severe Effect**
Quaternary Ammonium Salts ---------- No Effect
Quench Oil ---------- No Effect
Quinine Bisulphate (Dry) ---------- No Effect
Quinine Sulphate (Dry) ---------- No Effect
Radiation ---------- **Severe Effect**
Rape-Seed Oil ---------- No Effect
Red Line 100 Oil ---------- No Effect
Red Oil (Mil-H-5606) ---------- No Effect
Resins and Rosins ---------- No Effect
Rhodium Plating 120 F ---------- No Effect
RJ-1 (Mil-F-25558) ---------- No Effect
Rose Oil ---------- No Effect

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Rosin ---------- No Effect
Rosin Oil ---------- No Effect
Rotenone ---------- No Effect
RP-1 (Mil-R-25576) ---------- No Effect
Rubber Latex Emulsions ---------- No Effect
Rubber Solvents ---------- **Severe Effect**
Rum ---------- Minor Effect
Rust Inhibitors ---------- No Effect
Sal Ammoniac ---------- No Effect
Sal Soda ---------- No Effect
Salad Dressing ---------- No Effect
Salicylic Acid ---------- Minor Effect
Salt Water ---------- No Effect
Santo Safe 300 ---------- No Effect
Sea Water ---------- No Effect
Sesame Seed Oil ---------- No Effect
Sewage ---------- No Effect
Shellac ---------- No Effect
Shellac (Bleached) ---------- No Effect
Shellac (Orange) ---------- No Effect
Silicate Esters ---------- No Effect
Silicone ---------- No Effect
Silicone Greases ---------- No Effect
Silicone Oils ---------- Minor Effect
Silver Cyanide ---------- No Effect
Silver Nitrate ---------- No Effect
Silver Plating 80-120 F ---------- No Effect
Skelly, Solvent B,C,E ---------- No Effect
Skydrol 500 ---------- **Severe Effect**
Skydrol 7000 ---------- Minor Effect
Skydrol Hydraulic Fluid ---------- Moderate Effect
Soap Solutions ---------- No Effect
Soaps ---------- No Effect
Soda Ash ---------- No Effect
Sodium Acetate ---------- **Severe Effect**
Sodium Acid Sulfate ---------- No Effect

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Sodium Aluminate ---------- No Effect
Sodium Bicarbonate ---------- **Severe Effect**
Sodium Bisulfate ---------- Minor Effect
Sodium Bisulfite ---------- No Effect
Sodium Borate ---------- No Effect
Sodium Carbonate ---------- **Severe Effect**
Sodium Chlorate ---------- Minor Effect
Sodium Chloride ---------- No Effect
Sodium Chloride, 2% Solution ---------- No Effect
Sodium Chloride, 5% @ 150 F ---------- No Effect
Sodium Chloride, 5% Solution ---------- No Effect
Sodium Chloride, Saturated Solution ---------- No Effect
Sodium Chromate ---------- Minor Effect
Sodium Citrate ---------- No Effect
Sodium Cyanide ---------- Minor Effect
Sodium Dichromate ---------- No Effect
Sodium Ferrocyanide ---------- No Effect
Sodium Fluoride ---------- Moderate Effect
Sodium Hexametaphosphate ---------- No Effect
Sodium Hydrosulfide ---------- No Effect
Sodium Hydrosulfite ---------- Minor Effect
Sodium Hydroxide ---------- **Severe Effect**
Sodium Hydroxide, 20% ---------- No Effect
Sodium Hydroxide, 20% (Cold) ---------- No Effect
Sodium Hydroxide, 20% Solution (Hot) ---------- Minor Effect
Sodium Hydroxide, 3 Molar ---------- Minor Effect
Sodium Hydroxide, 50% ---------- No Effect
Sodium Hydroxide, 50% Solution (Cold) ---------- Minor Effect
Sodium Hydroxide, 70% (Cold) ---------- Minor Effect
Sodium Hydroxide, 80% ---------- Minor Effect
Sodium Hydroxide, 80% Solution (Hot) ---------- Minor Effect
Sodium Hypochlorite ---------- **Severe Effect**
Sodium Hypochlorite ---------- Minor Effect
Sodium Hypochlorite (to 20%) ---------- No Effect
Sodium Hypochlorite, 20% ---------- No Effect
Sodium Hypochlorite, 5% ---------- No Effect

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Sodium Iodide ---------- **Severe Effect**
Sodium Metaphosphate ---------- No Effect
Sodium Metasilicate ---------- No Effect
Sodium Nitrate ---------- Moderate Effect
Sodium Nitrite ---------- No Effect
Sodium Perborate ---------- No Effect
Sodium Peroxide ---------- **Severe Effect**
Sodium Phosphate ---------- Minor Effect
Sodium Phosphate (Dibasic) ---------- No Effect
Sodium Phosphate (Mono) ---------- No Effect
Sodium Phosphate (Tribasic) ---------- No Effect
Sodium Polyphosphate ---------- No Effect
Sodium Salts ---------- No Effect
Sodium Silicate ---------- No Effect
Sodium Silicate (Hot) ---------- No Effect
Sodium Silicate (Water Glass) ---------- No Effect
Sodium Sulfate ---------- Minor Effect
Sodium Sulfide ---------- Minor Effect
Sodium Sulfide - Saturated ---------- No Effect
Sodium Sulfite ---------- Minor Effect
Sodium Sulfite, 10% Solution @ 150 F ---------- No Effect
Sodium Sulfite, 5% Solution ---------- No Effect
Sodium Sulphate ---------- No Effect
Sodium Sulphide ---------- No Effect
Sodium Tetra Borate (Borax) ---------- No Effect
Sodium Tetraborate ---------- No Effect
Sodium Thiosulfate ---------- Minor Effect
Sorghum ---------- No Effect
Soy Sauce ---------- No Effect
Soybean Oil ---------- No Effect
SP-90X ---------- No Effect
Sperm Oil (Whale Oil) ---------- No Effect
Spry ---------- No Effect
SR-10 Fuel ---------- No Effect
SR-6 Fuel ---------- No Effect
Stannic Chloride ---------- Minor Effect

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Stannic Chloride, 50% ---------- No Effect
Stannic Fluoborate ---------- No Effect
Stannous Chloride ---------- Minor Effect
Stanous Chloride, 15% ---------- No Effect
Starch ---------- Moderate Effect
Steam, Above 350 F ---------- **Severe Effect**
Steam, Below 350 F ---------- **Severe Effect**
Stearic Acid ---------- No Effect
Steric Acid ---------- No Effect
Stoddard Solvent ---------- No Effect
Styrene ---------- Minor Effect
Sucrose Solution ---------- No Effect
Sugar (Liquids) ---------- No Effect
Sulfate Black Liquor ---------- No Effect
Sulfate Green Liquor ---------- No Effect
Sulfite Liquors ---------- No Effect
Sulfur ---------- **Severe Effect**
Sulfur (Molten) ---------- No Effect
Sulfur Chloride ---------- No Effect
Sulfur Dioxide ---------- **Severe Effect**
Sulfur Dioxide, Dry ---------- **Severe Effect**
Sulfur Dioxide, Liquefied Under Pressure ----- **Severe Effect**
Sulfur Dioxide, Wet ---------- **Severe Effect**
Sulfur Hexafluoride ---------- **Severe Effect**
Sulfur Trioxide ---------- No Effect
Sulfuric Acid ---------- Minor Effect
Sulfuric Acid (Conc) ---------- No Effect
Sulfuric Acid (Fuming) ---------- Minor Effect
Sulfuric Acid, 10% ---------- No Effect
Sulfuric Acid, 25% ---------- No Effect
Sulfuric Acid, 3 Molar ---------- No Effect
Sulfuric Acid, 50% ---------- No Effect
Sulfuric Acid, 60% ---------- No Effect
Sulfuric Acid, 75% ---------- No Effect
Sulfuric Acid, 85% ---------- No Effect
Sulfuric Acid, 95% ---------- No Effect

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Sulfuric Acid, 98.5% ---------- No Effect
Sulfurous Acid ---------- Moderate Effect
Sulphuric Acid, 5% ---------- No Effect
Sulphuric Acid, Concentrated Solution -------- No Effect
Sunsafe (Fire Resist. Hydr. Fluid) ---------- No Effect
Syrup ---------- No Effect
Tall Oil (Liquid Rosin) ---------- No Effect
Tallow ---------- No Effect
Tallow, Molten ---------- No Effect
Tannic Acid ---------- No Effect
Tanning Liquors ---------- No Effect
Tanning Oil ---------- No Effect
Tar and Tar Oil ---------- No Effect
Tar, Bituminous ---------- No Effect
Tarpenes ---------- No Effect
Tartaric Acid ---------- No Effect
Terpineol ---------- No Effect
Tertiary Butyl Alcohol ---------- Minor Effect
Tertiary Butyl Catechol ---------- No Effect
Tertiary Butyl Mercaptan ---------- No Effect
Tetra Bromomethane ---------- No Effect
Tetrabutyl Titanate ---------- No Effect
Tetrachloroethane ---------- No Effect
Tetrachloroethylene ---------- No Effect
Tetraethyl Lead ---------- No Effect
Tetraethyl Lead "Blend" ---------- No Effect
Tetraethylene Glycol ---------- No Effect
Tetrahydrofuran ---------- **Severe Effect**
Tetrahydronaphthalene ---------- No Effect
Tetralin ---------- No Effect
THIO-RED ---------- No Effect
Thiokol TP-90B ---------- No Effect
Thiokol TP-95 ---------- No Effect
Thionyl Chloride ---------- Minor Effect
Thionyl Chloride ---------- No Effect
Thiophene ---------- Moderate Effect

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Tin-Fluoborate Plating 100 F ---------- No Effect
Tin-Lead Plating 100 F ---------- No Effect
Titanium Tetrachloride ---------- No Effect
Toluene ---------- **Severe Effect**
Toluene Diisocyanate ---------- No Effect
Toluene Diisocyanide ---------- **Severe Effect**
Toluidine ---------- Minor Effect
Toluol ---------- No Effect
Tomato Pulp & Juice ---------- No Effect
Toothpaste ---------- No Effect
Transformer Oil ---------- No Effect
Transmission Fluid ---------- No Effect
Transmission Fluid, Type A ---------- No Effect
Triacetin ---------- **Severe Effect**
Triallyl Phosphate ---------- No Effect
Triaryl Phosphate ---------- No Effect
Tributoxyl Ethyl Phosphate ---------- Minor Effect
Tributyl Mercaptan ---------- No Effect
Tributyl Phosphate ---------- **Severe Effect**
Trichloroacetic Acid ---------- Minor Effect
Trichlorobenzenes ---------- Minor Effect
Trichloroethane ---------- Moderate Effect
Trichloroethylene ---------- No Effect
Trichloropropane ---------- No Effect
Trichlorotrifluoroethane (Freon 113) --------- Minor Effect
Tricresyl Phosphate ---------- Moderate Effect
Tridecyl Alcohol ---------- Minor Effect
Triethanolamine ---------- **Severe Effect**
Triethyl Aluminum ---------- Minor Effect
Triethyl Borane ---------- No Effect
Triethylene Glycol ---------- No Effect
Trifluoroethane ---------- No Effect
Trimethylene Glycol ---------- No Effect
Trinitrotoluene ---------- Moderate Effect
Trioctyl Phosphate ---------- Minor Effect
Tripoly Phosphate ---------- No Effect

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Tung Oil ---------- No Effect
Turbine Oil ---------- No Effect
Turbine Oil #15 (Mil-L-7808A) ---------- No Effect
Turbo Oil #35 ---------- No Effect
Turpentine ---------- Minor Effect
Type 1 Fuel (Mil-S-3136) (ASTM Ref. Fuel A) -- No Effect
Type 11 Fuel (Mil-S-3136) ---------- No Effect
Type 111 Fuel (Mil-S-3136) (ASTM Ref. Fuel B) No Effect
Univis 40 (Hydr. Fluid) ---------- No Effect
Univolt #35 (Mineral Oil) ---------- No Effect
Unsymmetrical Dimethyl Hydrazine ---------- **Severe Effect**
Urea ---------- No Effect
Urine ---------- No Effect
Vanilla Extract ---------- **Severe Effect**
Varnish ---------- No Effect
Vegetable Juices ---------- No Effect
Vegetable Oils ---------- No Effect
Versilube ---------- No Effect
Versilube F-50 ---------- No Effect
Vinegar ---------- Moderate Effect
Vinyl Acetate ---------- **Severe Effect**
Vinyl Chloride ---------- No Effect
VV-H-910 ---------- No Effect
Walnut Oil ---------- No Effect
Water ---------- No Effect
Water Acid, Mine ---------- No Effect
Water, Acid Mine ---------- No Effect
Water, Brine, Process, Beverage ---------- No Effect
Water, Distilled ---------- No Effect
Water, Fresh ---------- No Effect
Water, Glycol ---------- Minor Effect
Water, Salt ---------- No Effect
Waxes ---------- No Effect
Weed Killers ---------- No Effect
Wemco C ---------- No Effect
Wetting Agents ---------- No Effect

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Whey ---------- No Effect
Whiskey ---------- No Effect
White Liquor (Pulp Mill) ---------- No Effect
White Oil ---------- No Effect
White Pine Oil ---------- No Effect
White Sulfate Liquor ---------- Minor Effect
White Water (Paper Mill) ---------- No Effect
Wines ---------- No Effect
Womar Salt ---------- No Effect
Wood Alcohol ---------- **Severe Effect**
Wood Oil ---------- Minor Effect
Wort, Distillery ---------- No Effect
Xenon ---------- No Effect
Xylene ---------- No Effect
Xylidenes, Mixed, Aromatic ---------- **Severe Effect**
Xylidines ---------- **Severe Effect**
Zeolite ---------- No Effect
Zinc Acetate ---------- **Severe Effect**
Zinc Carbonate ---------- No Effect
Zinc Chloride ---------- Minor Effect
Zinc Chloride, 5% Solution ---------- No Effect
Zinc Hydrosulfite ---------- No Effect
Zinc Plating, Acid Chloride 140 F ---------- No Effect
Zinc Plating, Acid Fluoborate Bath R.T. ------ No Effect
Zinc Plating, Acid Sulfate Bath 150 F -------- No Effect
Zinc Plating, Alkaline Cyanide Bath R.T. ----- No Effect
Zinc Salts ---------- No Effect
Zinc Sulfate ---------- Minor Effect
Zinc Sulfate, 5% Solution ---------- No Effect
Zinc Sulfate, Saturated Solution ---------- No Effect

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VV-H-910

Material Compatibility

MATERIAL	EFFECT
BUNA	**Severe Effect**
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	**Severe Effect**
VITON	No Effect

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Walnut Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
NEOPRENE	Minor Effect
TEFLON	No Effect
VITON	No Effect

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Water

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	No Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Water Acid, Mine

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACRYLIC	No Effect
ALUMINUM	Moderate Effect
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	Moderate Effect
CAST IRON	Moderate Effect
CERAMIC	No Effect
CYCOLAC (ABS)	Minor Effect
EPOXY	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
RUBBER (Natural)	Minor Effect
RYTON	Minor Effect
TEFLON	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	No Effect

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Water, Acid Mine

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	**Severe Effect**
CYCOLAC (ABS)	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVC	Minor Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Water, Brine, Process, Beverage

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect
VITON	No Effect

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Water, Deionized

Material Compatibility

MATERIAL	EFFECT
NORYL	No Effect

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Water, Distilled

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	Minor Effect
BRASS	No Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	No Effect

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POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Water, Fresh

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	No Effect
BRASS	**Severe Effect**
BUNA	Moderate Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	No Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
CYCOLAC (ABS)	No Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	Minor Effect

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NORPRENE ---------- No Effect
NORYL ---------- No Effect
NYLON (Polyamide) ---------- Minor Effect
PHENOLIC ---------- No Effect
POLYACETAL ---------- No Effect
POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- No Effect
POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYSULFONE ---------- No Effect
POLYURETHANE, URETHANE ---------- No Effect
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Water, Glycol

Material Compatibility

MATERIAL	EFFECT
BUNA	Moderate Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
HYPALON	**Severe Effect**
NORYL	No Effect
PHENOLIC	Minor Effect
POLYETHYLENE	No Effect
POLYPROPYLENE	No Effect
RYTON	No Effect
TEFLON	No Effect
VITON	Minor Effect

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Water, Salt

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HYPALON	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect

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POLYETHYLENE LOW DENSITY ---------- No Effect
POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
TYGON (E-3606) ---------- Minor Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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Waxes

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
COPPER	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Weed Killers

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	Minor Effect
CARBON	No Effect
CAST BRONZE	Moderate Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	No Effect

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Wemco C

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Wetting Agents

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
ECTFE	No Effect
HYPALON	No Effect
NORYL	Minor Effect
POLYPROPYLENE	No Effect
VITON	No Effect

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Whey

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON	No Effect
CERAMIC	No Effect
EPOXY	No Effect
POLYACETAL	No Effect
TEFLON	No Effect
VITON	No Effect

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Whiskey

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYETHYLENE	**Severe Effect**
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect

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POLYPROPYLENE ---------- No Effect
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- No Effect
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- No Effect
RYTON ---------- No Effect
SILICON ---------- Minor Effect
SILICONE ---------- No Effect
TEFLON ---------- No Effect
VINYL ---------- No Effect
VITON ---------- No Effect

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White Liquor (Pulp Mill)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
CARBON	No Effect
CAST BRONZE	**Severe Effect**
CAST IRON	Moderate Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
VITON	No Effect

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White Oil

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Moderate Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	No Effect

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White Pine Oil

Material Compatibility

MATERIAL	EFFECT
BUNA	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
VITON	No Effect

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White Sulfate Liquor

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	Minor Effect
BUNA	Minor Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Moderate Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
NEOPRENE	No Effect
POLYPROPYLENE	No Effect
TEFLON	No Effect
VITON	Minor Effect

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White Water (Paper Mill)

Material Compatibility

MATERIAL	EFFECT
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
CARBON	No Effect
CAST BRONZE	No Effect
CERAMIC	No Effect
EPOXY	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Minor Effect
POLYPROPYLENE	No Effect
VITON	No Effect

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Wines

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACRYLIC	**Severe Effect**
ALUMINUM	Moderate Effect
BUNA	No Effect
CAST IRON	**Severe Effect**
E.P.D.M.	No Effect
ETHYLENE PROPYLENE	No Effect
HASTELLOY C	No Effect
HYPALON	No Effect
NEOPRENE	No Effect
NORPRENE	Moderate Effect
POLYETHYLENE	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
VINYL	No Effect
VITON	No Effect

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Womar Salt

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYURETHANE, URETHANE	No Effect
VITON	No Effect

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Wood Alcohol

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Wood Oil

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
CARBON STEEL	No Effect
CARBON STEEL HARDENED	No Effect
CAST IRON	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	Minor Effect

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Wort, Distillery

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ALUMINUM	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
TEFLON	No Effect
VITON	No Effect

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Xenon

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	No Effect
440 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BUNA	No Effect
COPPER	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Xylene

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	No Effect
BRASS	No Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST BRONZE	No Effect
CAST IRON	Minor Effect
CERAMAGNET "A"	No Effect
CERAMIC	No Effect
COPPER	No Effect
CYCOLAC (ABS)	**Severe Effect**
E.P.D.M.	**Severe Effect**
EPOXY	No Effect
ETHYLENE PROPYLENE	**Severe Effect**
FLOURAZ	**Severe Effect**
HASTELLOY C	No Effect
HYPALON	**Severe Effect**
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	Minor Effect
NEOPRENE	**Severe Effect**
NORPRENE	**Severe Effect**
NORYL	**Severe Effect**
NYLON (Polyamide)	No Effect
POLYACETAL	No Effect
POLYCARBONATE (LEXAN)	**Severe Effect**

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POLYETHYLENE ---------- **Severe Effect**
POLYETHYLENE HIGH DENSITY ---------- Minor Effect
POLYETHYLENE LOW DENSITY ---------- Minor Effect
POLYPROPYLENE ---------- **Severe Effect**
POLYSULFONE ---------- **Severe Effect**
POLYURETHANE, URETHANE ---------- **Severe Effect**
PVC ---------- **Severe Effect**
PVDF 150 DEGREES (KYNAR) ---------- No Effect
RUBBER (Natural) ---------- **Severe Effect**
RYTON ---------- Minor Effect
SILICON ---------- **Severe Effect**
SILICONE ---------- Moderate Effect
TEFLON ---------- No Effect
VITON ---------- No Effect

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Xylidenes, Mixed, Aromatic

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	**Severe Effect**
E.P.D.M.	**Severe Effect**
KALREZ	No Effect
NEOPRENE	**Severe Effect**
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Xylidines

Material Compatibility

MATERIAL	EFFECT
ALUMINUM	Minor Effect
CAST IRON	Minor Effect
E.P.D.M.	**Severe Effect**
NEOPRENE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Xylon

Material Compatibility

MATERIAL	EFFECT
TEFLON	No Effect

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Zeolite

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
BUNA	Moderate Effect
E.P.D.M.	No Effect
FLOURAZ	No Effect
HASTELLOY C	No Effect
KALREZ	No Effect
NEOPRENE	Moderate Effect
NYLON (Polyamide)	No Effect
TEFLON	No Effect
VITON	No Effect

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Zinc Acetate

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Moderate Effect
BUNA	Moderate Effect
E.P.D.M.	No Effect
KALREZ	No Effect
NEOPRENE	Minor Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	**Severe Effect**
TEFLON	No Effect
VITON	**Severe Effect**

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Zinc Ammonium Chloride

Material Compatibility

MATERIAL	EFFECT
BUNA	No Effect
COPPER	No Effect
KALREZ	No Effect
NEOPRENE	No Effect
TEFLON	No Effect

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Zinc Carbonate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	Minor Effect
BUNA	No Effect
CARBON STEEL	Minor Effect
CARBON STEEL HARDENED	Minor Effect
CAST IRON	Minor Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
HASTELLOY C	Minor Effect
KALREZ	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Zinc Chloride

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	**Severe Effect**
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	**Severe Effect**
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Moderate Effect
HYPALON	Minor Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	No Effect
NEOPRENE	Minor Effect
NORPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide)	Minor Effect
PHENOLIC	Minor Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
POLYSULFONE	No Effect
PVC	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	No Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VINYL	No Effect
VITON	Minor Effect

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Zinc Chloride, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	Minor Effect
400 SERIES STAINLESS STEEL HARDENED	Minor Effect
440 STAINLESS STEEL	Minor Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Zinc Hydrosulfite

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
ACETAL (DELRIN, CELCON)	No Effect
ALUMINUM	**Severe Effect**
BUNA	No Effect
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	**Severe Effect**
CAST IRON	**Severe Effect**
CERAMIC	No Effect
COPPER	Minor Effect
EPOXY	No Effect
ETHYLENE PROPYLENE	No Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYACETAL	Moderate Effect
RYTON	No Effect
TEFLON	No Effect
VITON	No Effect

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Zinc Nitrate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	No Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	No Effect
BUNA	No Effect
E.P.D.M.	Minor Effect
FLOURAZ	No Effect
KALREZ	No Effect
PVDF 150 DEGREES (KYNAR)	No Effect
TEFLON	No Effect

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Zinc Plating, Acid Chloride 140 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	**Severe Effect**
BUNA	No Effect
CERAMIC	No Effect
EPOXY	No Effect
HASTELLOY C	**Severe Effect**
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Zinc Plating, Acid Fluoborate Bath R.T.

Material Compatibility

MATERIAL	EFFECT
440 STAINLESS STEEL	Moderate Effect
BUNA	Minor Effect
CERAMIC	**Severe Effect**
EPOXY	No Effect
NEOPRENE	Moderate Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	**Severe Effect**
VITON	No Effect

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Zinc Plating, Acid Sulfate Bath 150 F

Material Compatibility

MATERIAL	EFFECT
316 STAINLESS STEEL	Moderate Effect
BUNA	No Effect
CERAMIC	No Effect
EPOXY	**Severe Effect**
HASTELLOY C	No Effect
NEOPRENE	Minor Effect
NORYL	No Effect
NYLON (Polyamide)	**Severe Effect**
POLYPROPYLENE	No Effect
PVC	**Severe Effect**
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Zinc Plating, Alkaline Cyanide Bath R.T.

Material Compatibility

MATERIAL	EFFECT
440 STAINLESS STEEL	No Effect
BUNA	No Effect
CERAMIC	**Severe Effect**
EPOXY	No Effect
HASTELLOY C	No Effect
NEOPRENE	No Effect
NORYL	No Effect
NYLON (Polyamide)	No Effect
POLYPROPYLENE	No Effect
PVC	No Effect
TEFLON	No Effect
TITANIUM	No Effect
VITON	No Effect

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Zinc Salts

Material Compatibility

MATERIAL	EFFECT
ACETAL (DELRIN, CELCON)	No Effect
BUNA	No Effect
E.P.D.M.	No Effect
NEOPRENE	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYURETHANE, URETHANE	No Effect
TEFLON	No Effect
VITON	No Effect

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Zinc Sulfate

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	No Effect
316 STAINLESS STEEL	Moderate Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ACRYLIC	No Effect
ALUMINUM	**Severe Effect**
BRASS	Moderate Effect
BUNA	**Severe Effect**
CARBON	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST BRONZE	Minor Effect
CAST IRON	**Severe Effect**
CERAMIC	No Effect
CERAMIC ALUMINA	No Effect
CERAMIC BARIUM FERRITE	No Effect
COPPER	Minor Effect
E.P.D.M.	No Effect
ECTFE	No Effect
EPOXY	No Effect
EPT	Minor Effect
ETHYLENE PROPYLENE	No Effect
FLOURAZ	No Effect
HASTELLOY C	Moderate Effect
HYPALON	Moderate Effect
KALREZ	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
MONEL	Moderate Effect
NEOPRENE	No Effect
NORYL	No Effect

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NYLON (Polyamide)	Minor Effect
PHENOLIC	No Effect
POLYACETAL	Moderate Effect
POLYETHYLENE	Minor Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
POLYPROPYLENE	No Effect
PVC	Moderate Effect
PVDF 150 DEGREES (KYNAR)	No Effect
RUBBER (Natural)	Moderate Effect
RYTON	No Effect
SILICONE	No Effect
TEFLON	No Effect
TITANIUM	No Effect
TYGON (E-3606)	Minor Effect
VINYL	No Effect
VITON	Minor Effect

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Zinc Sulfate, 25% Solution (Boiling)

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
LEATHER/THIOKOL IMPREGNATED	No Effect
TEFLON	No Effect

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Zinc Sulfate, 5% Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	Minor Effect
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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Zinc Sulfate, Saturated Solution

Material Compatibility

MATERIAL	EFFECT
302 STAINLESS STEEL	Minor Effect
304 STAINLESS STEEL	Minor Effect
316 STAINLESS STEEL	No Effect
400 SERIES STAINLESS STEEL HARDENED	**Severe Effect**
440 STAINLESS STEEL	**Severe Effect**
ACETAL (DELRIN, CELCON)	Minor Effect
ALUMINUM	**Severe Effect**
BRASS	**Severe Effect**
BUNA	No Effect
CARBON STEEL	**Severe Effect**
CARBON STEEL HARDENED	**Severe Effect**
CAST IRON	**Severe Effect**
COPPER	Minor Effect
E.P.D.M.	No Effect
LEATHER/THIOKOL IMPREGNATED	No Effect
NEOPRENE	No Effect
NYLON (Polyamide)	No Effect
POLYETHYLENE HIGH DENSITY	No Effect
POLYETHYLENE LOW DENSITY	No Effect
TEFLON	No Effect
VITON	No Effect

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