



Chemical Compatibility Guide for: Stainless Steel Component for Pump

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Chemical Compatibility

<u>CHEMICAL</u>	<u>EFFECT</u>
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

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Acetyl Chloride -----	Minor Effect
Acetyl Salicylic Acid -----	Minor Effect
Acetylene (Ethyne) -----	No Effect
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
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
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
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
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
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

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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
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

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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
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
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
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
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
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
Diocetyl Phthalate -----	No Effect
Diocetyl Sebecate -----	No Effect
Dioxane -----	No Effect
Dipentene -----	No Effect
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
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
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
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

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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
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
Hydrobromic 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
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
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

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JP-X (Mil-F-25604) ----- No Effect

316 STAINLESS STEEL (K-Z)

Chemical Compatibility

<u>CHEMICAL</u>	<u>EFFECT</u>
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
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 Bisulfite -----	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
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
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
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
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
Pentane -----	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) -----	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
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
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
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
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
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 Sulfitc, 10% Solution @ 150 F -----	Minor Effect
Sodium Sulfitc, 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
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
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
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 Phosphite -----	No Effect

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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 -----	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
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