

## Silicone (PDMS) Chemical Compatibility

**WARNING.** The information in this document has been gathered from reputable sources on the Internet and is to be used ONLY as an initial guide for screening the suitability of silicone for contact with certain substances. In addition, many other factors such as temperature, pressure, concentration, and length of exposure can also play a significant role in determining the suitability of silicone membranes in your intended application. It is the responsibility of the user to determine the suitability of *PermSelect*<sup>®</sup> silicone membrane modules in its specific application, and to be satisfied with its own testing that the membrane module is fit and suitable for use with its intended application, and that such application is a safe application. MedArray does not warrant (either expressed or implied) that the information in this chart is accurate or complete or that *PermSelect*<sup>®</sup> membrane modules are suitable for any purpose. To help users conduct their own compatibility testing [contact us](#) to request a small (3" x 3") silicone membrane test sample (within the US only).

Chemical	Compatibility	Chemical	Compatibility
Alkazene	D-Severe Effect	Alcohols:Ethyl	B-Good
Ammonia, Gas, Cold	A-Excellent	Alcohols:Furfuryl	D-Severe Effect
Ammonia, Gas, Hot	A-Excellent	Alcohols:Hexyl	B-Good
Aniline Oil	D-Severe Effect	Alcohols:Isobutyl	A-Excellent
Animal Oil	N/A	Alcohols:Isopropyl	A-Excellent
Argon	B-Good	Alcohols:Methyl	A-Excellent
Automotive Break Fluid	A-Excellent	Alcohols:Octyl	B-Good
Automatic Transmission Fluid	D-Severe Effect	Alcohols:Propyl	A-Excellent
Benzophenone	D-Severe Effect	Aluminum Acetate	D-Severe Effect
Benzyl Alcohol	N/A	Aluminum Chloride	B-Good
Benzyl Benzoate	N/A	Aluminum Chloride 20%	B-Good
Benzyl Chloride	D-Severe Effect	Aluminum Fluoride	B-Good
Bromobenzene	D-Severe Effect	Aluminum Hydroxide	N/A
Butyl Alcohol	B-Good	Aluminum Nitrate	B <sup>1</sup> -Good
Carbitol	B-Good	Aluminum Potassium Sulfate 10%	A-Excellent
Acetaldehyde	A-Excellent	Aluminum Potassium Sulfate 100%	A-Excellent
Acetamide	B-Good	Aluminum Sulfate	A-Excellent
Acetate Solvent	C-Fair	Alums	A <sup>1</sup> -Excellent
Acetic Acid	C-Fair	Amines	B-Good
Acetic Acid 20%	B-Good	Ammonia 10%	N/A
Acetic Acid 80%	B-Good	Ammonia Nitrate	N/A
Acetic Acid, Glacial	B-Good	Ammonia, anhydrous	C-Fair
Acetic Anhydride	C-Fair	Ammonia, liquid	N/A
Acetone	D-Severe Effect	Ammonium Acetate	N/A
Acetophenone	D-Severe Effect	Ammonium Bifluoride	N/A
Acetyl Bromide	N/A	Ammonium Carbonate	C-Fair
Acetyl Chloride (dry)	C-Fair	Ammonium Caseinate	N/A
Acetylene	B-Good	Ammonium Chloride	C-Fair
Acrylonitrile	D-Severe Effect	Ammonium Hydroxide	A-Excellent
Adipic Acid	N/A	Ammonium Nitrate	C-Fair
Alcohols:Amyl	D-Severe Effect	Ammonium Oxalate	N/A
Alcohols:Benzyl	N/A	Ammonium Persulfate	D-Severe Effect
Alcohols:Butyl	B-Good	Ammonium Phosphate, Dibasic	A-Excellent
Alcohols:Diacetone	D-Severe Effect	Ammonium Phosphate, Monobasic	A-Excellent

Chemical	Compatibility	Chemical	Compatibility
Ammonium Phosphate, Tribasic	A-Excellent	Butyl Phthalate	A <sup>1</sup> -Excellent
Ammonium Sulfate	A-Excellent	Butylacetate	D-Severe Effect
Ammonium Sulfite	N/A	Butylene	D-Severe Effect
Ammonium Thiosulfate	N/A	Butyric Acid	D-Severe Effect
Amyl Acetate	D-Severe Effect	Calcium Bisulfate	C-Fair
Amyl Alcohol	D-Severe Effect	Calcium Bisulfide	C-Fair
Amyl Chloride	D-Severe Effect	Calcium Bisulfite	A-Excellent
Amyl Chloronaphtalene	D-Severe Effect	Calcium Carbonate	A-Excellent
Aniline	B-Good	Calcium Chlorate	N/A
Aniline Hydrochloride	D-Severe Effect	Calcium Chloride	A-Excellent
Antifreeze	C-Fair	Calcium Hydroxide	A-Excellent
Antimony Trichloride	N/A	Calcium Hypochlorite	B-Good
Aqua Regia (80% HCl, 20% HNO3)	D-Severe Effect	Calcium Nitrate	B <sup>1</sup> -Good
Arochlor 1248	B-Good	Calcium Oxide	A-Excellent
Aromatic Hydrocarbons	D-Severe Effect	Calcium Sulfate	N/A
Arsenic Acid	A-Excellent	Calcium Sulfide	B-Good
Arsenic Salts	N/A	Calgon	A-Excellent
Asphalt	D-Severe Effect	Cane Juice	A-Excellent
Barium Carbonate	N/A	Carbolic Acid (Phenol)	D-Severe Effect
Barium Chloride	A-Excellent	Carbon Bisulfide	N/A
Barium Cyanide	N/A	Carbon Dioxide (dry)	B-Good
Barium Hydroxide	A-Excellent	Carbon Dioxide (wet)	B-Good
Barium Nitrate	B-Good	Carbon Disulfide	N/A
Barium Sulfate	A-Excellent	Carbon Monoxide	A <sup>2</sup> -Excellent
Barium Sulfide	A-Excellent	Carbon Tetrachloride	D-Severe Effect
Beer	A-Excellent	Carbon Tetrachloride (dry)	D-Severe Effect
Beet Sugar Liquids	A-Excellent	Carbon Tetrachloride (wet)	D-Severe Effect
Benzaldehyde	D-Severe Effect	Carbonated Water	N/A
Benzene	D-Severe Effect	Carbonic Acid	A-Excellent
Benzene Sulfonic Acid	D-Severe Effect	Catsup	N/A
Benzoic Acid	B-Good	Chloric Acid	N/A
Benzol	D-Severe Effect	Chlorinated Glue	N/A
Benzonitrile	A <sup>1</sup> -Excellent	Chlorine (dry)	D-Severe Effect
Benzyl Chloride	D-Severe Effect	Chlorine Water	D-Severe Effect
Bleaching Liquors	B-Good	Chlorine, Anhydrous Liquid	D-Severe Effect
Borax (Sodium Borate)	B-Good	Chlorine Dioxide	C-Fair
Boric Acid	A-Excellent	Chlorine Trifluoride	D-Severe Effect
Brewery Slop	N/A	Chloroacetic Acid	D-Severe Effect
Bromine	D-Severe Effect	Chlorobenzene (Mono)	D-Severe Effect
Butadiene	D-Severe Effect	Chlorobromomethane	D-Severe Effect
Butane	D-Severe Effect	Chloroform	D-Severe Effect
Butanol (Butyl Alcohol)	B-Good	Chlorosulfonic Acid	D-Severe Effect
Butter	B-Good	Chocolate Syrup	N/A
Buttermilk	A-Excellent	Chromic Acid 10%	C-Fair
Butyl Amine	B <sup>1</sup> -Good	Chromic Acid 30%	C-Fair
Butyl Carbitol	D-Severe Effect	Chromic Acid 5%	C-Fair
Butyl Cellosolve	D-Severe Effect	Chromic Acid 50%	C-Fair
Butyl Ether	D-Severe Effect	Chromium Salts	N/A

Chemical	Compatibility	Chemical	Compatibility
Cider	B <sup>1</sup> -Good	Ethyl Benzoate	D-Severe Effect
Citric Acid	A-Excellent	Ethyl Cellulose	C-Fair
Citric Oils	N/A	Ethyl Chloride	D-Severe Effect
Cloroxr (Bleach)	N/A	Ethyl Chlorocarbonate	D-Severe Effect
Coffee	A-Excellent	Ethyl Diamine	A-Excellent
Copper Chloride	A <sup>1</sup> -Excellent	Ethyl Ether	D-Severe Effect
Copper Cyanide	A-Excellent	Ethyl Formate	N/A
Copper Fluoborate	N/A	Ethyl Hexanol	B-Good
Copper Nitrate	N/A	Ethyl Mercaptan	C-Fair
Copper Sulfate >5%	A-Excellent	Ethyl Oxalate	D-Severe Effect
Copper Sulfate 5%	A-Excellent	Ethyl Pentachlorobenzene	D-Severe Effect
Cream	N/A	Ethyl Silicate	N/A
Cresols	D-Severe Effect	Ethyl Sulfate	N/A
Cresylic Acid	D-Severe Effect	Ethylene	N/A
Cupric Acid	A <sup>1</sup> -Excellent	Ethylene Bromide	D-Severe Effect
Cyanic Acid	A <sup>1</sup> -Excellent	Ethylene Chloride	D-Severe Effect
Cyclohexane	D-Severe Effect	Ethylene Chlorohydrin	C-Fair
Cyclohexanone	D-Severe Effect	Ethylene Diamine	A-Excellent
Denatured Alcohol	A-Excellent	Ethylene Dichloride	D-Severe Effect
Detergents	A-Excellent	Ethylene Glycol	A-Excellent
Diacetone Alcohol	D-Severe Effect	Ethylene Oxide	D-Severe Effect
Dibenzyl Ether	N/A	Ethylene Trichloride	D-Severe Effect
Dibutyl Phthalate	B-Good	Fatty Acids	C-Fair
Dichlorobenzene	D-Severe Effect	Ferric Chloride	B-Good
Dichloroethane	N/A	Ferric Nitrate	C-Fair
Diesel Fuel	D-Severe Effect	Ferric Sulfate	B-Good
Diethyl Ether	D-Severe Effect	Ferrous Chloride	N/A
Diethylamine	B-Good	Ferrous Sulfate	N/A
Diethylene Glycol	B <sup>1</sup> -Good	Fluoboric Acid	N/A
Dimethyl Aniline	D-Severe Effect	Fluorine	D-Severe Effect
Dimethyl Formamide	C-Fair	Fluosilicic Acid	N/A
Dimethyl Phthalate	N/A	Formaldehyde 100%	B-Good
Dioxane	D-Severe Effect	Formaldehyde 40%	N/A
Diphenyl	D-Severe Effect	Formic Acid	B-Good
Diphenyl Oxide	C-Fair	Freon 113	D-Severe Effect
Dow Corning 550	C-Fair	Freon 12	D-Severe Effect
Dow Guard	A-Excellent	Freon 22	D-Severe Effect
Dowtherm A	A-Excellent	Freon TF	D-Severe Effect
Dyes	N/A	Freonr 11	D-Severe Effect
Elco 28 Lubricant	B-Good	Fruit Juice	N/A
Epsom Salts (Magnesium Sulfate)	A-Excellent	Fuel Oils	D-Severe Effect
Ethane	D-Severe Effect	Furan Resin	D-Severe Effect
Ethanol	B-Good	Furfural	D-Severe Effect
Ethanolamine	B-Good	Gallic Acid	D-Severe Effect
Ether	D-Severe Effect	Gasoline (high-aromatic)	D-Severe Effect
Ethyl Acetate	B-Good	Gasoline, leaded, ref.	D-Severe Effect
Ethyl Acetoacetate	C-Fair	Gasoline, unleaded	D-Severe Effect
Ethyl Benzene	D-Severe Effect	Gelatin	A-Excellent

Chemical	Compatibility	Chemical	Compatibility
Glucose	A-Excellent	Isotane	N/A
Glue, P.V.A.	A-Excellent	Jet Fuel (JP3, JP4, JP5, JP6)	D-Severe Effect
Glycerin	A-Excellent	Kerosene	D-Severe Effect
Glycol	A-Excellent	Ketones	N/A
Glycolic Acid	A-Excellent	Lacquer Thinners	D-Severe Effect
Gold Monocyanide	N/A	Lacquers	D-Severe Effect
Grape Juice	A-Excellent	Lactic Acid	A-Excellent
Grease	D-Severe Effect	Lard	B-Good
Grease, Silicone	C-Fair	Latex	A-Excellent
Helium	A-Excellent	Lead Acetate	A-Excellent
Heptane	D-Severe Effect	Lead Nitrate	B <sup>1</sup> -Good
Hexane	D-Severe Effect	Lead Sulfamate	B-Good
Honey	A-Excellent	Ligroin	D-Severe Effect
Hydraulic Oil (Petro)	B-Good	Lime	N/A
Hydraulic Oil (Synthetic)	B-Good	Linoleic Acid	B <sup>1</sup> -Good
Hydrazine	B-Good	Liquefied Petroleum Gas (LPG)	D-Severe Effect
Hydrobromic Acid 100%	D-Severe Effect	Lithium Chloride	A <sup>1</sup> -Excellent
Hydrobromic Acid 20%	D-Severe Effect	Lithium Hydroxide	N/A
Hydrobromic Acid, Gas	D-Severe Effect	Lubricants	D-Severe Effect
Hydrochloric Acid 100%	D-Severe Effect	Lye: Ca(OH) <sub>2</sub> Calcium Hydroxide	A-Excellent
Hydrochloric Acid 20%	D-Severe Effect	Lye: KOH Potassium Hydroxide	C-Fair
Hydrochloric Acid 37%	B-Good	Lye: NaOH Sodium Hydroxide	A <sup>1</sup> -Excellent
Hydrochloric Acid, Dry Gas	N/A	Magnesium Bisulfate	N/A
Hydrocyanic Acid	C-Fair	Magnesium Carbonate	N/A
Hydrocyanic Acid (Gas 10%)	D-Severe Effect	Magnesium Chloride	A-Excellent
Hydrofluoric Acid 100%	D-Severe Effect	Magnesium Hydroxide	A-Excellent
Hydrofluoric Acid 20%	D-Severe Effect	Magnesium Nitrate	N/A
Hydrofluoric Acid 50%	D-Severe Effect	Magnesium Oxide	N/A
Hydrofluoric Acid 75%	D-Severe Effect	Magnesium Sulfate (Epsom Salts)	A-Excellent
Hydrofluosilicic Acid 100%	D-Severe Effect	Malathion	D-Severe Effect
Hydrofluosilicic Acid 20%	D-Severe Effect	Maleic Acid	N/A
Hydrogen Gas	C-Fair	Maleic Anhydride	N/A
Hydrogen Peroxide 10%	A-Excellent	Malic Acid	B-Good
Hydrogen Peroxide 100%	B-Good	Manganese Sulfate	A <sup>1</sup> -Excellent
Hydrogen Peroxide 30%	B-Good	Mash	N/A
Hydrogen Peroxide 50%	B-Good	Mayonnaise	N/A
Hydrogen Sulfide (aqua)	C-Fair	Melamine	C-Fair
Hydrogen Sulfide (dry)	C-Fair	Mercuric Chloride (dilute)	N/A
Hydroquinone	N/A	Mercuric Cyanide	A-Excellent
Hydroxyacetic Acid 70%	N/A	Mercurous Nitrate	N/A
Ink	N/A	Mercury	A-Excellent
Iodine	N/A	Methane	D-Severe Effect
Iodine (in alcohol)	N/A	Methanol (Methyl Alcohol)	A-Excellent
Iodoform	N/A	Methyl Acetate	D-Severe Effect
Isooctane	D-Severe Effect	Methyl Acetone	N/A
Isopropyl Acetate	D-Severe Effect	Methyl Acrylate	D-Severe Effect
Isopropyl Chloride (1	D-Severe Effect	Methyl Alcohol 10%	A-Excellent
Isopropyl Ether	D-Severe Effect	Methyl Bromide	N/A

Chemical	Compatibility	Chemical	Compatibility
Methyl Butyl Ketone	D-Severe Effect	Nitrous Oxide	N/A
Methyl Cellosolve	D-Severe Effect	N-Octane	D-Severe Effect
Methyl Chloride	D-Severe Effect	N-Pentane	D-Severe Effect
Methyl Dichloride	N/A	Oils:Aniline	D-Severe Effect
Methyl Ether	D-Severe Effect	Oils:Anise	N/A
Methyl Ethyl Ketone	D-Severe Effect	Oils:Bay	N/A
Methyl Ethyl Ketone Peroxide	B-Good	Oils:Bone	N/A
Methyl Isobutyl Ketone	D-Severe Effect	Oils:Castor	A-Excellent
Methyl Isopropyl Ketone	C-Fair	Oils:Cinnamon	N/A
Methyl Mercaptan	N/A	Oils:Citric	N/A
Methyl Methacrylate	C-Fair	Oils:Clove	N/A
Methyl Oleate	N/A	Oils:Coconut	A-Excellent
Methyl Propyl Salicylate	N/A	Oils:Cod Liver	B-Good
Methylacrylic Acid	N/A	Oils:Corn	A-Excellent
Methylamine	N/A	Oils:Cottonseed	A-Excellent
Methylene Chloride	N/A	Oils:Creosote	D-Severe Effect
Milk	A-Excellent	Oils:Crude (Asphalt Base)	D-Severe Effect
Mineral Spirits	D-Severe Effect	Oils:Diesel Fuel (20, 30, 40, 50)	D-Severe Effect
Molasses	N/A	Oils:Fuel (1, 2, 3, 5A, 5B, 6)	C-Fair
Monochloroacetic acid	N/A	Oils:Ginger	N/A
Monoethanolamine	B-Good	Oils:Hydraulic Oil (Petro)	B-Good
Monovinyl Acetate	D-Severe Effect	Oils:Hydraulic Oil (Synthetic)	B-Good
Morpholine	N/A	Oils:Lemon	N/A
Motor oil	N/A	Oils:Linseed	A-Excellent
Mustard	N/A	Oils: Lubricating, Petroleum Base	N/A
Naphtha	D-Severe Effect	Oils:Mineral	C-Fair
Naphthalene	D-Severe Effect	Oils: Neatsfoot	B-Good
Natural Gas	A-Excellent	Oils:Olive	D-Severe Effect
N-Hexaldehyde	B-Good	Oils:Orange	D-Severe Effect
Nickel Chloride	A-Excellent	Oils:Palm	N/A
Nickel Nitrate	N/A	Oils:Peanut	A-Excellent
Nickel Sulfate	A-Excellent	Oils:Peppermint	N/A
Nitrating Acid (<15% HNO3)	N/A	Oils:Petroleum	D-Severe Effect
Nitrating Acid (>15% H2SO4)	N/A	Oils:Pine	D-Severe Effect
Nitrating Acid (S1% Acid)	N/A	Oils:Rapeseed	D-Severe Effect
Nitrating Acid (S15% H2SO4)	N/A	Oils:Red	D-Severe Effect
Nitric Acid (20%)	D-Severe Effect	Oils:Rosin	N/A
Nitric Acid (50%)	D-Severe Effect	Oils:Sesame Seed	N/A
Nitric Acid (5-10%)	C-Fair	Oils:Silicone	C-Fair
Nitric Acid (Concentrated)	D-Severe Effect	Oils:Soybean	A-Excellent
Nitrobenzene	D-Severe Effect	Oils:Sperm (whale)	N/A
Nitroethane	D-Severe Effect	Oils:Tanning	N/A
Nitrogen, Gas	A-Excellent	Oils:Transformer	B-Good
Nitrogen Fertilizer	N/A	Oils:Turbine	D-Severe Effect
Nitrogen Tetroxide	D-Severe Effect	Oleic Acid	D-Severe Effect
Nitromethane	D-Severe Effect	Oleum 100%	D-Severe Effect
Nitropropane	D-Severe Effect	Oleum 25%	D-Severe Effect
Nitrous Acid	N/A	Oronite 8200	D-Severe Effect

Chemical	Compatibility	Chemical	Compatibility
Oxalic Acid (cold)	B-Good	Propylene Glycol	A-Excellent
Oxygen, 200-400F	N/A	Propylene Oxide	D-Severe Effect
Ozone	A-Excellent	Pydraul, 10E	D-Severe Effect
Palmitic Acid	D-Severe Effect	Pydraul, 230C, 312F, 540C	D-Severe Effect
Paraffin	N/A	Pydraul, 30E, 50E, 65E, 90E	A-Excellent
Pentane	D-Severe Effect	Pyridine	D-Severe Effect
Perchloric Acid	D-Severe Effect	Pyrogallic Acid	N/A
Perchloroethylene	D-Severe Effect	Pyrogard 42, 43, 53, 55 (Phosphate Ester)	D-Severe Effect
Petrolatum	D-Severe Effect	Radiation	B-Good
Petroleum	D-Severe Effect	Resorcinal	N/A
Phenylhydrazine	N/A	RJ-1 (MIL-F-25558)	D-Severe Effect
Phenol (10%)	D-Severe Effect	Rosins	A-Excellent
Phenol (Carbolic Acid)	D-Severe Effect	RP-1 (MIL-R-25576)	D-Severe Effect
Phosphoric Acid (>40%)	D-Severe Effect	Rum	A-Excellent
Phosphoric Acid (crude)	D-Severe Effect	Rust Inhibitors	N/A
Phosphoric Acid (molten)	N/A	Salad Dressings	N/A
Phosphoric Acid (S40%)	C-Fair	Salicylic Acid	N/A
Phosphoric Acid Anhydride	N/A	Salt Brine (NaCl saturated)	A <sup>1</sup> -Excellent
Phosphorus	N/A	Sea Water	A <sup>1</sup> -Excellent
Phosphorus Trichloride	N/A	Shellac (Bleached)	N/A
Photographic Developer	B-Good	Shellac (Orange)	N/A
Photographic Solutions	A-Excellent	Silicone	C-Fair
Phthalic Acid	B <sup>1</sup> -Good	Silver Bromide	N/A
Phthalic Anhydride	N/A	Silver Nitrate	A-Excellent
Picric Acid	D-Severe Effect	Skydrol 500	C-Fair
Potash (Potassium Carbonate)	N/A	Soap Solutions	A-Excellent
Potassium Bicarbonate	A <sup>1</sup> -Excellent	Soda Ash (see Sodium Carbonate)	A-Excellent
Potassium Bromide	A <sup>1</sup> -Excellent	Sodium Acetate	D-Severe Effect
Potassium Chlorate	B-Good	Sodium Aluminate	N/A
Potassium Chloride	A-Excellent	Sodium Benzoate	N/A
Potassium Chromate	N/A	Sodium Bicarbonate	A-Excellent
Potassium Cyanide Solutions	A-Excellent	Sodium Bisulfate	A-Excellent
Potassium Dichromate	A-Excellent	Sodium Bisulfite	A-Excellent
Potassium Ferricyanide	N/A	Sodium Borate (Borax)	A-Excellent
Potassium Ferrocyanide	N/A	Sodium Bromide	N/A
Potassium Hydroxide (Caustic Potash)	C-Fair	Sodium Carbonate	A-Excellent
Potassium Hypochlorite	N/A	Sodium Chlorate	C-Fair
Potassium Iodide	N/A	Sodium Chloride	A-Excellent
Potassium Nitrate	A-Excellent	Sodium Chromate	N/A
Potassium Oxalate	N/A	Sodium Cyanide	A-Excellent
Potassium Permanganate	N/A	Sodium Ferrocyanide	N/A
Potassium Sulfate	A-Excellent	Sodium Fluoride	N/A
Potassium Sulfide	A-Excellent	Sodium Hydrosulfite	C-Fair
Producer Gas	B-Good	Sodium Hydroxide (20%)	A <sup>2</sup> -Excellent
Propane (liquefied)	D-Severe Effect	Sodium Hydroxide (50%)	A <sup>1</sup> -Excellent
Propanol	A-Excellent	Sodium Hydroxide (80%)	A <sup>1</sup> -Excellent
Propyl Acetate	D-Severe Effect	Sodium Hypochlorite (<20%)	B-Good
Propylene	D-Severe Effect	Sodium Hypochlorite (100%)	B-Good

Chemical	Compatibility	Chemical	Compatibility
Sodium Hyposulfate	N/A	Tetrabutyl Titanate	N/A
Sodium Metaphosphate	A-Excellent	Tetrachloroethane	D-Severe Effect
Sodium Metasilicate	N/A	Tetrachloroethylene	D-Severe Effect
Sodium Nitrate	D-Severe Effect	Tetraethyl Lead	N/A
Sodium Perborate	B-Good	Tetrahydrofuran	D-Severe Effect
Sodium Peroxide	D-Severe Effect	Tetralin	D-Severe Effect
Sodium Polyphosphate	D-Severe Effect	Tin Salts	B-Good
Sodium Silicate	A-Excellent	Toluene (Toluol)	D-Severe Effect
Sodium Sulfate	A-Excellent	Tomato Juice	N/A
Sodium Sulfide	A-Excellent	Trichloroacetic Acid	D-Severe Effect
Sodium Sulfite	A-Excellent	Trichloroethane	D-Severe Effect
Sodium Tetraborate	A-Excellent	Trichloroethylene	D-Severe Effect
Sodium Thiosulfate (hypo)	A-Excellent	Trichloropropane	N/A
Sorghum	N/A	Tricresylphosphate	C-Fair
Soy Sauce	N/A	Triethanolamine	D-Severe Effect
Stannic Chloride	B-Good	Triethylamine	N/A
Stannic Fluoborate	N/A	Trisodium Phosphate	A-Excellent
Stannous Chloride	B-Good	Turpentine	D-Severe Effect
Starch	N/A	Urea	B-Good
Stearic Acid	B-Good	Uric Acid	N/A
Stoddard Solvent	D-Severe Effect	Urine	N/A
Styrene	D-Severe Effect	Varnish	D-Severe Effect
Sugar (Liquids)	A-Excellent	Vegetable Juice	B-Good
Sulfate (Liquors)	B-Good	Vinegar	A-Excellent
Sulfur Chloride	C-Fair	Vinyl Acetate	D-Severe Effect
Sulfur Dioxide	B-Good	Vinyl Chloride	N/A
Sulfur Dioxide (dry)	B-Good	Wagner 21B Brake Fluid	C-Fair
Sulfur Hexafluoride	B-Good	Water, Acid, Mine	B-Good
Sulfur Trioxide	B-Good	Water, Deionized	N/A
Sulfur Trioxide (dry)	B-Good	Water, Distilled	C-Fair
Sulfuric Acid (<10%)	C-Fair	Water, Fresh	B-Good
Sulfuric Acid (10-75%)	D-Severe Effect	Water, Salt	B-Good
Sulfuric Acid (75-100%)	D-Severe Effect	Weed Killers	A-Excellent
Sulfuric Acid (cold concentrated)	D-Severe Effect	Whey	N/A
Sulfuric Acid (hot concentrated)	D-Severe Effect	Whiskey & Wines	A-Excellent
Sulfurous Acid	D-Severe Effect	White Liquor (Pulp Mill)	A-Excellent
Sulfuryl Chloride	N/A	White Pine Tar	D-Severe Effect
Tallow	N/A	White Water (Paper Mill)	N/A
Tannic Acid	B-Good	Xylene	D-Severe Effect
Tanning Liquors	B-Good	Zinc Chloride	B-Good
Tartaric Acid	A-Excellent	Zinc Hydrosulfite	N/A
Tertiary Butyl Alcohol	B-Good	Zinc Sulfate	A-Excellent
Tertiary Butyl Mercaptan	D-Severe Effect		
Tetrabromoethane	D-Severe Effect		

**Explanation of Footnotes:**

1. Satisfactory to 72°F (22° C)
2. Satisfactory to 120°F (48° C)