

# O-RING CHEMICAL COMPATIBILITY

Chemical	Perfluoro	E.P	Viton
Acetaldehyde	A	A	D
Acetamide, Sat.	A	A	B
Acetic Acid	A	A	B
Acetic Acid 20%	A	A	B
Acetic Acid 80%	A	A	B
Acetic Acid, Glacial	A	B	D
Acetic Anhydride	A	B	D
Acetone	A	A	D
Acetophenone	A	A	U
Acetyl Chloride (dry)	A*	D	A
Acetylene	A*	A	A
Acrylonitrile	A	D	D
Adipic Acid	A	A	A
Aluminum Fluoride	A	A	A
Aluminum Acetate	A	A	U
Aluminum Chloride	A	A	A
Aluminum Chloride 20%	A	A	A
Aluminum Hydroxide	A	A	A
Aluminum Nitrate	A	A	A
Aluminum Potassium Sulfate 10%	A	A	A
Aluminum Potassium Sulfate 100%	A	A	A
Aluminum Sulfate	A	A	A
Alums	A*	A	A
Amines	A	B	D
Ammonia 10%	A	A	D
Ammonia Nitrate	A	A	D
Ammonia, anhydrous	A*	A	D
Ammonia, liquid	A	A	D
Ammonium Acetate	A	A	A
Ammonium Bifluoride	A*	A	A
Ammonium Carbonate	A	A	A
Ammonium Chloride	A	A	A
Ammonium Hydroxide	A*	A	B
Ammonium Nitrate	A	A	A
Ammonium Oxalate	A	A	A
Ammonium Persulfate	A	B	A
Ammonium Phosphate, Dibasic	A	A	A
Ammonium Phosphate, Monobasic	A	A	A
Ammonium Phosphate, Tribasic	A	A	A
Ammonium Sulfate	A	A	A
Ammonium Sulfite	A	A	D
Amyl Acetate	A	A	D
Amyl Alcohol	A	A	B
Amyl Borate	A	U	A
Amyl Chloride	A	D	B
Amyl Chloronaphthalene	A	U	A
Amyl Naphthalene	A	U	A
Aniline	A	B	C
Aniline Dyes	A	A	B
Aniline Hydrochloride	A	B	A
Antimony Trichloride	A	B	A
Aqua Regia (80% HCl, 20% HNO3)	A	C	B
Aromatic Hydrocarbons	A	D	A
Arsenic Acid	A	A	A
Askarel	A	U	A
Asphalt	A	D	A
Barium Carbonate	A	A	A
Barium Chloride	A	A	A
Barium Cyanide	A	A	A
Barium Hydroxide	A	A	A
Barium Nitrate	A	A	A
Barium Sulfate	A	A	A

Chemical	Perfluoro	E.P	Viton
Barium Sulfide	A	A	A
Beer	A	A	A
Beet Sugar Liquids	A	A	A
Benzaldehyde	A	A	D
Benzene	A	D	A
Benzene Sulfonic Acid	A	D	A
Benzoic Acid	A*	D	A
Benzol	A	D	A
Benzyl Alcohol	A	B	A
Benzyl Benzoate	A	B	A
Benzyl Chloride	A	U	A
Biphenyl Oxide	A	U	A
Bleaching Liquors	A*	A	A
Borax (Sodium Borate)	A	A	A
Boric Acid	A	A	A
Bromine	A	D	A
Bromine Water	A*	B	A
Bromobenzene	A	U	A
Butadiene	A	C	B
Butane	A	U	A
Butyl Acetate	A	B	D
Butyl Alcohol	A	B	A
Butyl Cellosolve	A	A	U
Butyl Ether	A	D	D
Butyl Oleate	A	B	A
Butyl Phthalate	A	B	C
Butyl Stearate	A	C	A
Butylene	A	D	A
Butyraldehyde	A	B	U
Butyric Acid	A*	B	B
Carbonic Acid	A	B	A
Calcium Acetate	A	A	A
Calcium Bisulfide	A	C	A
Calcium Bisulfite	A	D	A
Calcium Carbonate	A	A	A
Calcium Chlorate	A	A	A
Calcium Chloride	A	A	A
Calcium Hydroxide	A	A	A
Calcium Hypochlorite	A	B	A
Calcium Nitrate	A	A	A
Calcium Oxide	A	A	B
Calcium Sulfate	A	A	A
Calcium Sulfide	A	A	A
Carbamate	A	B	A
Carbitol	A	B	B
Carbolic Acid (see Phenol)	A	B	A
Carbon Dioxide (dry)	A	B	B
Carbon Dioxide (wet)	A	B	B
Carbon Disulfide	A	D	A
Carbon Monoxide	A	A	A
Carbon Tetrachloride	A*	D	A
Castor Oil	A	B	A
Cellosolve	A	B	C
Cellosolve Acetate	A	B	U
Chloracetone	A	A	U
Chlorinated Glue	A	B	A
Chlorine (dry)	A	A	A
Chlorine Water	B	C	A
Chlorine, Anhydrous Liquid	A	B	A
Chloroacetic Acid	A*	B	D
Chlorobenzene (Mono)	A	D	A
Chlorobromomethane	A	B	A

Ratings  
(at 50°C)

A- No Effect  
B- Mild conditions with limited exposure  
D- Very Poor

A\* - Non-standard formulation may be necessary  
C- Noticeable effects even under mild conditions  
U- Unsatisfactory

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Chemical	Perfluoro	E.P	Viton	Chemical	Perfluoro	E.P	Viton
Chlorobutadiene	A	U	A	Diethyl Sebecate	A	B	B
Chlorododecane	A	U	A	Dioxane	A	B	U
Chloroform	A	D	A	Dioxolane	A	B	U
Chlorosulfonic Acid	A	D	D	Dipentene	A	U	A
Chlorotoluene	A	U	A	Diphenyl	A	D	A
Chromic Acid 10%	A	C	B	Diphenyl Oxide	A	D	A
Chromic Acid 30%	A	B	A	Dowtherm Fluids	A	U	A
Chromic Acid 5%	A	A	A	Ethyl Formate	A*	B	A
Chromic Acid 50%	A	B	A	Epichlorohydrin	A	B	U
Citric Acid	A	A	A	Epsom Salts (Magnesium Sulfate)	A	A	A
Citric Oils	A	B	A	Ethane	A	D	A
Clorox (Bleach)	A	B	A	Ethanolamine	A	B	D
Coal Tar	A	U	A	Ethyl Acetate	A	B	D
Coconut Oil	A	D	A	Ethyl Acetoacetate	A	B	U
Cod Liver Oil	A	A	A	Ethyl Acrylate	A	B	U
Copper Acetate	A	A	U	Ethyl Alcohol	A	A	A
Copper Chloride	A	A	A	Ethyl Benzene	A	U	A
Copper Cyanide	A	A	A	Ethyl Benzoate	A	U	A
Copper Fluoroborate	A	A	A	Ethyl Cellosolve	A	U	U
Copper Nitrate	A	A	A	Ethyl Cellulose	A	B	U
Copper Sulfate 5%	A	A	A	Ethyl Chloride	A	A	A
Copper Sulfate > 5%	A	A	A	Ethyl Chlorocarbonate	A	B	A
Corn Oil	A	C	B	Ethyl Chloroformate	A	B	U
Cottonseed Oil	A	D	A	Ethyl Mercaptan	A	C	B
Creosote Oil	A	D	A	Ethyl Oxalate	A	A	A
Cresols	A	D	A	Ethyl Pentachlorobenzene	A	U	A
Cresylic Acid	A	D	A	Ethyl Silicate	A	A	A
Cumene	A	U	A	Ethylene	A	B	A
Cyclohexane	A	D	A	Ethylene Bromide	A	C	A
Cyclohexanol	A	C	A	Ethylene Chlorohydrin	A	B	A
Cyclohexanone	A	B	D	Ethylene Diamine	A	A	B
Decalin	A	U	A	Ethylene Dichloride	A	C	A
Decane	A	U	A	Ethylene Glycol	A	A	A
Detergents	A	A	A	Ethylene Oxide	A	C	D
Diacetone	A	A	U	Fatty Acids	A	D	A
Diacetone Alcohol	A	A	D	Feric Sulfate	A	A	A
Dibenzyl Ether	A	B	U	Ferric Chloride (Aq)	A	A	A
Dibenzyl Sebecate	A	B	B	Ferric Nitrate	A	A	A
Dibromoethylbenzene	A	U	B	Ferrous Chloride	A	A	A
Dibutyl Amine	A	C	U	Ferrous Sulfate	A	A	B
Dibutyl Ether	A	C	C	Fluoboric Acid	A	A	B
Dibutyl Phthalate	A	B	C	Fluorine	A	U	C
Dibutyl Sebecate	A	B	B	Fluorobenzene	A	U	A
Dichlorobenzene	A	D	C	Fluorolube	B	A	B
Dichloroethane	A	D	C	Fluosilicic Acid	A	A	B
Dichloroisopropyl Ether	A	C	C	Formaldehyde 100%	A	A	D
Dicyclohexyl Amine	A	U	U	Formaldehyde 40%	A	A	A
Diesel Fuel	A	D	A	Formic Acid	A	A	C
Diesel Fuel (20, 30, 40, 50)	A	D	A	Freon 11	B*	U	B
Diethyl Ether	A	D	D	Freon 112	A*	U	A
Diethylamine	A*	B	A	Freon 113	B*	C	B
Diethylbenzene	A	U	A	Freon 114	B*	A	B
Diethylene glycol	A	A	A	Freon 114B2	B*	U	B
Diisobutylene	A	U	A	Freon 115	B*	A	B
Diisopropylbenzene	A	U	A	Freon 116	B*	U	U
Diisopropylidene Acetone	A	C	U	Freon 12	C	B	B
Diisopropylketone	A	A	U	Freon 12	B*	B	B
Dimethyl Aniline	A	B	D	Freon 13	B*	A	B
Dimethyl Formamide	A	B	C	Freon 13B1	B*	A	B
Dimethyl Phthalate	A	B	B	Freon 14	B*	U	U
Dinitrotoluene	A	U	U	Freon 142b	B*	B	U
Diethyl Phthalate	A	B	B	Freon 152a	B*	A	U

Ratings  
(at 50°C)

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Chemical	Perfluoro	E.P	Viton
Freon 21	A*	U	U
Freon 218	A*	A	A
Freon 22	B	A	D
Freon 22	A*	A	U
Freon 23	A*	U	U
Freon 31	A*	A	U
Freon 32	A*	A	U
Freon 502	B*	A	B
Freon BF	A*	U	A
Freon C316	A*	A	A
Freon C318	B*	A	B
Freon MF	B*	U	B
Freon T-P35	A*	A	A
Freon T-WD602	A*	B	A
Freon TA	B*	B	C
Freon TC	A*	B	A
Freon TF	B	D	B
Freon TF	B*	U	B
Freon TMC	A*	C	A
Fuel (1, 2, 3, 5A, 5B, 6)	A	D	B
Fuel Oils	A	D	A
Fumaric Acid	A	B	A
Furan Resin	A	C	D
Furfural	A*	D	D
Gallic Acid	A	B	A
Gasoline (high-aromatic)	A	D	A
Gasoline, leaded, ref.	A	D	A
Gasoline, unleaded	A	D	A
Gelatin	A	A	A
Ginger Oil	A	A	A
Glaubers Salt	A	B	A
Glucose	A	A	A
Glue, P.V.A	A	A	B
Glycerin	A	A	A
Glycolic Acid	A	A	A
Grease	A	D	A
Halowax Oil	A	U	A
Heptane	A	D	A
Hexane	A	D	A
Hexyl Alcohol	A	C	C
Honey	A	A	A
Hydraulic Oil (Petro)	A	D	A
Hydraulic Oil (Synthetic)	A	A	A
Hydrazine	A*	A	A
Hydrobromic Acid 100%	A	A	A
Hydrobromic Acid 20%	A	A	A
Hydrochloric Acid 100%	A	D	A
Hydrochloric Acid 20%	A	A	A
Hydrochloric Acid 37%	A	C	A
Hydrocyanic Acid	A	B	A
Hydrocyanic Acid (Gas 10%)	A	A	A
Hydrofluoric Acid 100%	A	D	B
Hydrofluoric Acid 20%	A	D	A
Hydrofluoric Acid 50%	A	D	B
Hydrofluoric Acid 75%	A	C	B
Hydrofluosilicic Acid 100%	A	A	A
Hydrofluosilicic Acid 20%	A	A	A
Hydrogen Gas	A	A	A
Hydrogen Peroxide 10%	A	A	A
Hydrogen Peroxide 100%	A	D	A
Hydrogen Peroxide 30%	A	B	A
Hydrogen Peroxide 50%	A	B	A

Chemical	Perfluoro	E.P	Viton
Hydrogen Sulfide (aqua)	A	B	D
Hydrogen Sulfide (dry)	A	B	D
Hydroquinone	C	D	B
Hydroxyacetic Acid 70%	A	A	A
Hypochlorous Acid	A*	B	A
Iodine	A	B	A
Iodine (in alcohol)	A	A	A
Iodine Pentafluoride	B*	U	U
Iodoform	A	A	A
Isobutyl Alcohol	A	A	A
Isooctane	A	D	A
Isophrone	A	C	U
Isopropyl Acetate	A	B	D
Isopropyl Alcohol	A	A	A
Isopropyl Chloride	A	U	A
Isopropyl Ether	A	D	D
Isotane	A	D	A
Jet Fuel (JP3, FP4, JP5)	A*	D	A
Kerosene	A	D	A
Ketones	A	A	D
Lacquer Thinners	A	D	D
Lacquers	A	D	D
Lactic Acid	A	A	A
Latex	A	A	A
Lead Acetate	A	A	D
Lead Nitrate	A	A	A
Lead Sulfamate	A	A	A
Lemon Oil	A	D	A
Ligroin	A	D	A
Lime	A	D	B
Linoleic Acid	A	D	B
Linseed Oil	A	D	A
Lithium Chloride	A	A	A
Lithium Hydroxide	A	B	B
Lubricants (petroleum based)	A	U	A
Lye: Ca(OH)2 Calcium Hydroxide	A	A	B
Lye: KOH Potassium Hydroxide	A	A	B
Lye: Na(OH) Sodium Hydroxide	A	B	B
Magnesium Carbonate	A	A	A
Magnesium Chloride	A	A	A
Magnesium Hydroxide	A	A	A
Magnesium Nitrate	A	A	A
Magnesium Oxide	A	B	C
Magnesium Sulfate	A	A	A
Maleic Acid	A	D	A
Maleic Anhydride	A	D	A
Malic Acid	A	D	A
Maganese Sulfate	A	A	A
Melamine	A	A	A
Mercuric Chloride (dilute)	A	A	A
Mercuric Cyanide	A	A	A
Mercurous Nitrate	A	A	A
Mercury	A	A	A
Mesityl Oxide	A	B	U
Methacrylic Acid	A	B	U
Methane	A	D	A
Methanol (Methyl Alcohol)	A	A	C
Methyl Acetate	A	B	D
Methyl Acetone	A	A	D
Methyl Acrylate	A	B	U
Methyl Alcohol 10%	A	A	C
Methyl Bromide	A	D	A

Ratings  
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Chemical	Perfluoro	E.P	Viton
Methyl Butyl Ketone	A	A	D
Methyl Cellosolve	A	B	D
Methyl Chloride	A	D	A
Methyl Cyclopentane	A	U	B
Methyl Ether	A	U	A
Methyl Ethyl Ketone	A	A	D
Methyl Ethyl Ketone Peroxide	A	D	D
Methyl Formate	A	B	D
Methyl Isobutyl Ketone	A	B	D
Methyl Isopropyl Ketone	A	C	D
Methyl Methacrylate	A	D	D
Methyl Oleate	A	B	B
Methylamine	A	A	D
Methylene Chloride	A	C	B
Mineral Oil	A	D	A
Mineral Spirits	A	D	A
Molasses	A	A	A
Monochloroacetic acid	A	C	C
Monoethanolamine	A	B	D
Monovinyl Acetylene	A	B	A
Morpholine	A	D	D
Motor oil	A	D	A
N-Hexene-1	A	U	A
N-Hexylaldehyde	A	A	U
N-Octane	A	U	A
Naphtha	A	D	A
Naphthalene	A	D	A
Naphthalenic Acid	A	U	A
Natural Gas	A	U	A
Nickel Acetate (aq)	A	A	U
Nickel Chloride	A	A	A
Nickel Nitrate	A	A	A
Nickel Sulfate	A	A	A
Nitric Acid (20%)	A	A	A
Nitric Acid (5-10%)	A	A	A
Nitric Acid (50%)	A	D	A
Nitric Acid (Concentrated)	A*	D	A
Nitrobenzene	A	B	B
Nitroethane	A	B	U
Nitrogen Tetroxide	B*	C	U
Nitromethane	A	B	D
Nitrous Acid	A	A	B
Nitrous Oxide	A	A	B
O-Chloronaphthalene	A	U	A
Octachlorotoluene	A*	U	A
Octyl Alcohol	A	C	A
Oil Fish	A	U	A
Oil Lavender	A	U	A
Oil Neatsfoot	A	B	A
Oil Tung	A	C	A
Oleic Acid	A	U	B
Oleum 100%	A	D	A
Oleum 25%	A	D	A
Olive Oil	A	D	A
Oxalic Acid (cold)	A	A	A
Ozone	A	A	A
P-Cymene	A	U	A
Paint Thinner	A	U	B
Palmitic Acid	A	B	A
Paraffin	A	D	B
Peanut Oil	A	C	A
Pentane	A	D	A

Chemical	Perfluoro	E.P	Viton
Peppermint Oil	A	A	A
Perchloric Acid	A	B	A
Perchloroethylene	A	D	A
Petrolatum	A	A	A
Petroleum	A	D	A
Phenol (10%)	A	B	A
Phenol (Carbolic Acid)	A	B	A
Phenyl Ethyl Ether	A	U	U
Phosphoric Acid (40%)	A	B	A
Phosphoric Acid (>40%)	A	B	A
Phosphoric Acid (crude)	A	B	A
Phosphorus Trichloride	A	A	A
Photographic Developer	A	B	A
Photographic Solutions	A	A	B
Phrone	A	C	U
Phthalic Acid	A	A	A
Phthalic Anhydride	A	A	A
Picric Acid	A	B	A
Pine Oil	A	D	A
Pinene	A	U	A
Piperidine	A	U	U
Potash (Potassium Carbonate)	A	A	A
Potassium Acetate	A	A	U
Potassium Bicarbonate	A	A	A
Potassium Bromide	A	A	A
Potassium Chlorate	A	A	A
Potassium Chloride	A	A	A
Potassium Chromate	A	A	A
Potassium Cyanide Solutions	A	A	A
Potassium Dichromate	A	A	A
Potassium Ferricyanide	A	A	A
Potassium Ferrocyanide	A	A	A
Potassium Hydroxide	A	A	B
Potassium Hypochlorite	A	B	A
Potassium Iodide	A	A	A
Potassium Nitrate	A	A	A
Potassium Oxalate	A	A	A
Potassium Permanganate	A	A	A
Potassium Sulfate	A	A	A
Potassium Sulfide	A	A	A
Propane (liquified)	A	D	U
Propyl Acetate	A	B	U
Propyl Acetone	A	A	U
Propyl Alcohol	A	A	A
Propyl Nitrate	A	B	U
Propylene	A	D	A
Propylene Glycol	A	A	A
Propylene Oxide	A*	B	U
Pyridine	A	B	U
Pyrogalllic Acid	A	B	D
Pyroligneous Acid	A	B	U
Pyrrole	A	C	U
Rapeseed Oil	A	U	A
Resorcinal	A	B	A
Rosin Oil	A	D	A
Rum	A	A	A
Salicylic Acid	A	A	A
Salt Brine (NaCl saturated)	A	A	A
Sea Water	A	A	A
Sesame Seed Oil	A	A	A
Shellac (Bleached)	A	A	A

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Chemical	Perfluoro	E.P	Viton
Shellac (Orange)	A	A	A
Silicate Esters	A	U	A
Silicone	A	A	A
Silicone Oil	A	A	A
Silver Bromide	A	B	A
Silver Nitrate	A	A	A
Soap Solutions	A	A	A
Soda Ash (see Sodium Carbonate)	A	A	A
Sodium Acetate	A	A	D
Sodium Aluminate	A	A	A
Sodium Bicarbonate	A	A	A
Sodium Bisulfate	A	A	A
Sodium Borate	A	A	A
Sodium Bromide	A	A	A
Sodium Carbonate	A	A	A
Sodium Chlorate	A	A	A
Sodium Chloride	A	A	A
Sodium Chromate	A	B	A
Sodium Cyanide	A	A	A
Sodium Ferrocyanide	A	A	A
Sodium Flouride	A	A	A
Sodium Hydrosulfite	A	B	A
Sodium Hydroxide (20%)	A	B	B
Sodium Hydroxide (50%)	A	B	B
Sodium Hydroxide (80%)	A	B	B
Sodium Hypochlorite (100%)	A	B	A
Sodium Hypochlorite (<20%)	A	B	A
Sodium Metaphosphate	A	A	A
Sodium Metasilicate	A	A	A
Sodium Nitrate	A	A	A
Sodium Perborate	A	A	A
Sodium Peroxide	A	A	A
Sodium Polyphosphate	A	A	A
Sodium Silicate	A	A	A
Sodium Sulfate	A	A	A
Sodium Sulfide	A	A	A
Sodium Sulfite	A	A	A
Sodium Tetraborate	A	A	A
Sodium Thiosulfate	A	A	A
Sodium Benzoate	A	A	A
Sodium Bisulfite	A	A	A
Soybean Oil	A	C	A
Sperm (whale) Oil	A	A	A
Stannic Chloride	A	A	A
Stannic Fluoborate	A	A	A
Stannous Chloride	A	C	A
Starch	A	A	A
Steam Over 149°C / 300°F	A*	C	U
Steam Under 149°C / 300°F	A*	A	U
Stearic Acid	A	B	A
Stoddard Solvent	A	D	A
Styrene	A	D	B
Sulfate (Liquors)	A	A	A
Sulfur Chloride	A	U	A
Sulfur Dioxide	A	A	A
Sulfur Dioxide (dry)	A	A	A
Sulfur Trioxide	B	C	A
Sulfur Trioxide (dry)	A	C	A
Sulfuric Acid (<10%)	A	A	A
Sulfuric Acid (cold concentrated)	A	C	B
Sulfuric Acid (hot concentrated)	A	D	B
Sulfurous Acid	A	B	A

Chemical	Perfluoro	E.P	Viton
Sulfuryl Chloride	A	C	A
Surfuric Acid (10-75%)	A	B	A
Surfuric Acid (75-100%)	A	B	B
Tallow	A	A	A
Tannic Acid	A	A	A
Tanning Liquors	A	B	A
Tanning Oil	A	C	A
Tartaric Acid	A	B	A
Terpinol	A	C	A
Tert-Butanol	A	B	A
Tert-Butyl Mercaptan	A	U	A
Tert-Butylcatecol	A	B	A
Tetrabromo Ethane	A	U	A
Tetrabromo Methane	A	U	A
Tetrabutyl Titanate	A	A	A
Tetrachloroethane	A	D	A
Tetrachloroethylene	A	D	A
Tetrahydrofuran	A	D	D
Tetralin	A	U	A
Thionyl Chloride	A	C	B
Tin Salts	A	B	A
Titanium Tetrachloride	B*	U	B
Toluene (Toluol)	A	D	C
Toluene Diisocyanate	A	B	U
Transformer Oil	A	C	A
Triacetin	A	A	U
Triaryl Phosphate	A	A	A
Tributoxyethyl Phosphate	A	A	A
Tributyl Mercaptan	A	U	A
Tributyl Phosphate	A	B	U
Trichloroacetic Acid	A*	B	C
Trichloroethane	A	D	A
Trichloroethylene	A	D	D
Trichloropropane	A	C	A
Tricresylphosphate	A	A	A
Triethanol Amine	A*	A	U
Triethyl Borane	A	C	A
Triethylamine	A	A	D
Trinitrotoluene	A	U	B
Trioctyl Phosphate	A	A	B
Trisodium Phosphate	A	A	A
Turbine Oil	A	U	A
Turpentine	A	D	A
Unsymmetrical Dimethyl Hydrazine	A*	A	U
Urea	A	A	A
Urine	A	A	A
Varnish	A	D	A
Vinyl Acetate	A	B	A
Water, Acid, Mine	A	A	A
Water, Deionized	A	A	A
Water, Distilled	A	A	A
Water, Fresh	A	A	A
Water, Salt	A	A	A
White Liquor (Pulp Mill)	A	C	A
White Oil	A	U	A
White Water (Paper Mill)	A	B	A
Xylene	A	D	D
Xylidine	A	B	U
Zinc Acetate	A	A	U
Zinc Chloride	A	A	A
Zinc Sulfate	A	A	A

Ratings  
(at 50°C)

A- No Effect  
B- Mild conditions with limited exposure  
D- Very Poor

A\* - Non-standard formulation may be necessary  
C- Noticeable effects even under mild conditions  
U- Unsatisfactory