

NOTE: 28 Day Immersions at 73 °F

E = Excellent

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Chemical, Conc. % ⁽¹⁾	Flex-A-Prene®	Flex-A-Chem®	Flex-A-Thane®	Chemical, Conc. % ⁽¹⁾	Flex-A-Prene®	Flex-A-Chem®	Flex-A-Thane®	Chemical, Conc. % ⁽¹⁾	Flex-A-Prene®	Flex-A-Chem®	Flex-A-Thane®
Acetate Solvents	F	U	U	Bromine, Anhydrous Liquid	U	U	U	Ethylene Chlorohydrin	E	E	U
Acetic Acid, 10% in w	E	E	G	Butadiene	E	G	E	Ethylene Diamine	F	U	U
Acetic Acid, 50-60% in w	G	E	U	Butane	E	G	E	Ethylene Dichloride	F	U	U
Acetic Acid, Glacial, 100%	G	E	U	Butyl Acetate	G	U	U	Ethylene Glycol	E	E	E
Acetic Anhydride	E	E	U	Butyl Alcohol	G	E	U	Ethylene Oxide	E	E	E
Acetone	U	G	U	Butyric Acid	G	U	U	Fatty Acids	F	F	G
Acrylonitrile	G	G	U	Calcium Bisulfite, 1% in w	E	E	E	Ferric Chloride, 43% in w	E	E	E
Adipic Acid, 100% in alc	G	U	U	Calcium Bromide 52%	E	E	E	Ferric Hydroxide	E	E	U
Air	E	E	E	Calcium Carbonate, 25% acids	E	E	E	Ferric Nitrate, 60% in w	E	E	E
Alcohols General	E	E	U	Calcium Chlorate, 30% in w	E	E	E	Ferric Salts	E	E	E
Aliphatic Hydrocarbons	U	U	G	Calcium Chloride, 30% in w	E	E	E	Ferric Sulfate, 5% in w	E	E	E
Allyl Alcohol	F	E	U	Calcium Hydroxide, 10% in glycerol	E	E	U	Ferrous Chloride, 40% in w	E	E	E
Alum, 5% in w	E	E	E	Calcium Hydroxide, 20% in water	E	E	U	Ferrous Salts	E	E	E
Aluminum Chloride, 53% in w	E	E	E	Calcium Hypochlorite, 20% in w	E	E	G	Ferrous Sulfate, 5% in w	E	E	E
Aluminum Chlorohydrate 50%	E	E	-	Calcium Nitrate, 55% in w	E	E	E	Fluoborate Salts	E	E	E
Aluminum Fluoride, 0.1% in w	E	E	E	Calcium Oxide, 3% in w	E	E	E	Fluoboric Acid, 48% in w	U	E	U
Aluminum Hydroxide, 2% in w	E	E	E	Calcium Salts	E	E	E	Fluorine Gas	U	U	U
Aluminum Nitrate, 39% in w	E	E	E	Calcium Sulfate, 1% in w	E	E	E	Fluosilicic Acid, 30% in w (Fluoride)	E	E	F
Aluminum Potassium Sulfate	E	E	E	Carbon Dioxide, Wet/Dry	E	E	E	Formaldehyde, 37% in w	U	F	U
Aluminum Sulfate	E	E	E	Carbon Disulfide	U	U	U	Formic Acid, 25% in w	E	E	F
Aluminum Sulfate, 50% in w	E	E	E	Carbon Monoxide	E	E	E	Formic Acid, 40-50% in w	G	E	U
Aluminum Salts	E	E	E	Carbon Tetrachloride	U	U	U	Formic Acid, 98% in w	G	E	U
Amines	F	U	U	Carbonic Acid	E	E	E	Fruit Juice	E	E	E
Ammonia, Anhydrous Liquid	G	G	F	Castor Oil	F	G	E	Fuel Oil	U	U	G
Ammonium Acetate, 45% in w	E	E	G	Cellosolve	F	U	U	Furfural	U	U	U
Ammonium Bifluoride, 50% in w	E	E	E	Cellosolve Acetate	F	U	U	Gallic Acid, 17% in acetone	G	U	U
Ammonium Bisulfite, 50%	E	E	-	Chloroacetic Acid, 20% in w	G	E	U	Gasoline, Automotive	U	U	G
Ammonium Carbonate, 50% in w	E	E	E	Chlorobenzene, Mono, Di, Tri	U	U	U	Gelatin	E	E	E
Ammonium Chloride, 23% in w	E	E	E	Chloroform	U	U	U	Glucose, 50% in w	E	E	E
Ammonium Hydroxide, 5-10% in w	E	E	E	Chlorosulfonic Acid	U	U	U	Glycerol, (Glycerin)	E	E	E
Ammonium Hydroxide, 30% in w	E	E	F	Chromic Acid, 10-20% in w	E	E	U	Glycolic Acid, 70% in w	G	E	U
Ammonium Nitrate, 54% in w	E	E	E	Chromic Acid, 50% in w	F	G	U	Heptane	U	U	G
Ammonium Persulfate, 30% in w	E	E	E	Chromium Salts	E	E	E	Hexane	U	U	G
Ammonium Phosphate, 21% in w	E	E	E	Citric Acid, 50% in w	E	E	G	Hydrazine	F	U	U
Ammonium Salts	E	E	E	Coconut Oil	F	G	E	Hydrobromic Acid, 20-50% in w	U	E	U
Ammonium Sulfate, 40% in w	E	E	E	Copper Salts	E	E	E	Hydrobromic Acid, 100% in w	U	E	U
Amyl Acetate	G	U	U	Corn Syrup	E	E	E	Hydrochloric Acid, 10% in w	E	E	F
Amyl Alcohol	U	E	F	Cottonseed Oil	F	G	E	Hydrochloric Acid, 37% in w	G	E	U
Amyl Chloride	F	U	U	Cresol (m, o, or p)	U	E	U	Hydrocyanic Acid	E	E	G
Aniline	F	U	U	Cresylic Acid	G	U	U	Hydrofluoric Acid, 10% in w	U	E	U
Aniline Hydrochloride	F	U	U	Cupric Chloride, 40% in w	E	E	E	Hydrofluoric Acid, 25% in w	U	E	U
Antimony Salts	E	E	E	Cupric Cyanide, 10% in dilute bases	E	E	E	Hydrofluoric Acid, 40-48% in w	U	E	U
Antimony Trichloride	E	E	F	Cupric Nitrate, 70% in w	E	E	E	Hydriodic Acid, 55-58% in w	G	E	U
Aqua Regia	U	E	U	Cupric Sulfate, 13% in w	E	E	E	Hydrogen Peroxide, 3% in w	E	E	E
Aqueous Ammonia	E	E	F	Cyclohexane	U	U	G	Hydrogen Peroxide, 10% in w	E	E	E
Aromatic Hydrocarbons	U	U	U	Cyclohexanone	U	F	U	Hydrogen Peroxide, 30% in w	E	E	F
Arsenic Acid, 20% in w	F	E	E	Detergent Solutions	G	E	E	Hydrogen Peroxide, 90% in w	G	G	U
Arsenic Salts	E	E	E	Diacetone Alcohol	U	E	F	Hydrogen Sulfide	E	E	E
ASTM Reference No. 1 Oil	F	U	E	Dibutyl Phthalate	E	E	U	Hydroquinone, 7% in w	G	E	E
ASTM Reference No. 2 Oil	U	U	E	Dichlorobenzene	U	U	U	Hypochlorous Acid, 25% in w	E	E	F
ASTM Reference No. 3 Oil	U	U	E	Diesel Fuel	U	U	G	Iodine, 50 ppm in w	E	E	E
Barium Carbonate, 1% in w	E	E	E	Diethylamine, 2.5% in w	E	E	E	Isobutyl Alcohol	F	E	U
Barium Chloride, 27% in w	E	E	E	Diethylene Glycol	E	E	E	Isooctane	U	U	G
Barium Hydroxide, 5% in w	E	E	E	Diethyl Ether	F	U	U	Isopropyl Acetate	G	U	U
Barium Salts	E	E	E	Dimethylformamide	G	E	U	Isopropyl Alcohol	F	E	U
Barium Sulfate, <1% in dilute acids	E	E	E	Dimethylsulfoxide	E	G	U	Isopropyl Ether	F	U	U
Barium Sulfide	E	E	E	Diocetyl Phthalate	E	E	U	Jet Fuel, Jp8	U	U	G
Beer	E	E	E	Dioxane	U	U	U	Kerosene	U	U	G
Benzaldehyde	U	F	U	Ether	F	U	U	Ketones	U	F	U
Benzene	U	U	U	Ethyl Acetate	F	G	U	Lacquer Solvents	G	U	U
Benzenesulfonic Acid	U	U	U	Ethyl Alcohol (Ethanol)	F	E	U	Lactic Acid, 3-10% in w	E	E	G
Benzoic Acid	E	E	U	Ethyl Benzoate	U	U	U	Lactic Acid, 85% in w	G	E	U
Benzyl Alcohol	E	E	U	Ethyl Chloride	F	U	U	Lard, Animal Fat	F	G	E
Bleach Liquor, 22% in w	E	E	G	Ethyl Ether	F	U	U	Lead Acetate, 35% in w	E	E	E
Borax, 6% in w	E	E	E	Ethylamine, 70% in w	U	G	U	Lead Nitrate, 27% in w	E	E	E
Boric Acid, 4% in w	E	E	E	Ethylene Bromide	U	F	U	Lead Salts	E	E	E

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Lemon Oil	U	U	G	Paraffins	U	U	G	Sodium Persulfate	E	E	E
Lime Slurry (Calcium Hydroxide)	E	E	U	Peracetic acid	U	E	-	Sodium Peroxide, 20% in w	E	E	E
Limonene-D	U	U	G	Perchloric Acid, 67% in w	E	E	U	Sodium Phosphate, 30% in w	E	E	E
Linoleic Acid	F	F	G	Perchloroethylene	F	U	U	Sodium Salts	E	E	E
Linseed Oil	F	G	E	Phenol, 5-10% in w	E	E	U	Sodium Sulfate, 38% in w	E	E	E
Lubricating Oils, Petroleum	U	U	E	Phenol, 91% in w	E	E	U	Sodium Sulfide, 45% in w	E	E	E
Magnesium Carbonate, 1% in w	E	E	E	Phosphoric Acid, <10% in w	E	E	E	Sodium Sulfite, 10% in w	E	E	E
Magnesium Chloride, 35% in w	E	E	E	Phosphoric Acid, 25% in w	E	E	E	Stannic Chloride, 50% in w	E	E	F
Magnesium Hydroxide	E	E	E	Phosphoric Acid, 85% in w	E	E	U	Stannous Chloride, 45% in w	E	E	E
Magnesium Hydroxide, 10% in acids	E	E	E	Phosphorous Trichloride Acid	G	E	U	Stearic Acid, 5% in alc	F	F	G
Magnesium Nitrate, 50% in w	E	E	E	Photographic Solutions	G	E	E	Styrene Monomer	U	U	U
Magnesium Sulfate, 25% in w	E	E	E	Phthalic Acid, 9% in alc	E	E	U	Sulfur Chloride	U	E	U
Maleic Acid, 30% in w	F	F	G	Phthalic Anhydride, 9% in alc	E	E	U	Sulfur Dioxide, Gas Dry	E	E	F
Malic Acid, 36% in w	E	E	G	Picric Acid, 1% in w	U	E	U	Sulfur Dioxide, Gas Wet	E	E	F
Manganese Salts	E	E	E	Plating Solutions	E	E	U	Sulfur Trioxide, Wet	G	G	U
Manganese Sulfate, 34% in w	E	E	E	Polyaluminum Chloride (PAC) in w	E	E	-	Sulfuric Acid, 10% in w	E	E	E
Mercuric Chloride, 6% in w	E	E	E	Potassium Amyl Xanthate (PAX)	-	G	-	Sulfuric Acid, 30% in w	E	E	U
Mercuric Cyanide, 8% in w	E	E	E	Potassium Carbonate, 55% in w	E	E	E	Sulfuric Acid, 95-98% in w	U	E	U
Mercurous Nitrate, 10% in dilute acids	E	E	E	Potassium Chloride, 20% in w	E	E	E	Sulfurous Acid	E	E	E
Mercury	E	E	E	Potassium Cyanide, 33% in w	E	E	E	Tannic Acid, 75% in w	G	E	U
Mercury Salts	E	E	E	Potassium Dichromate, 5% in w	E	E	E	Tanning Solutions	E	E	F
Methane Gas	E	E	E	Potassium Hydroxide, 43% in w	E	E	U	Tartaric Acid, 56% in w	E	E	E
Methyl Acetate	G	U	U	Potassium Hypochlorite, 70% in w	E	E	E	Tetrahydrofuran	U	U	U
Methyl Alcohol (Methanol)	E	E	U	Potassium Iodide, 56% in w	E	E	E	Thionyl Chloride	E	E	F
Methyl Bromide	F	U	U	Potassium Nitrate, 10% in w	E	E	E	Tin Salts	E	E	E
Methyl Chloride	F	U	U	Potassium Oxide, 50% in w	E	E	E	Titanium Salts	E	E	E
Methyl Ethyl Ketone	U	F	U	Potassium Permanganate, 6% in w	E	E	E	Toluene	U	U	U
Methyl Isobutyl Ketone	U	F	U	Potassium Salts	E	E	E	Trichloroacetic Acid, 90% in w	G	E	U
Methylene Chloride	F	U	U	Potassium Sulfate, 10% in w	E	E	E	Trichloroethane	F	U	U
Methyl Methacrylate	U	U	U	Potassium Sulfide, 20% in w	E	E	E	Triethanolamine	F	U	U
Milk	E	E	E	Propyl Alcohol (Propanol)	F	E	U	Trichloroethylene	U	U	U
Mineral Oil	U	U	E	Propylene Glycol	E	E	E	Trichloropropane	F	U	U
Mineral Spirits	U	U	G	Propylene Oxide	E	E	E	Tricresyl Phosphate	E	E	U
Molasses	E	E	E	Pyridine	F	F	U	Trisodium Phosphate	E	E	E
Monoethanolamine	F	U	U	Salicylic Acid, 1% in w	E	E	G	Turpentine	U	U	G
Motor Oil	U	U	E	Silicone Oils	F	E	E	Urea, 20% in w	E	E	E
Naphtha	U	U	G	Silver Nitrate, 55% in w	E	E	E	Uric Acid	E	E	F
Naphthalene	U	U	G	Skydrol 500A	U	U	G	Vinegar	E	E	G
Nickel Chloride, 40% in w	E	E	E	Soap Solutions	G	E	E	Vinyl Acetate	G	U	U
Nickel Nitrate, 75% in w	E	E	E	Sodium Acetate, 55% in w	E	G	U	Water, Brine	E	E	E
Nickel Salts	E	E	E	Sodium Aluminate	E	E	U	Water, Deionized	E	E	E
Nickel Sulfate, 25% in w	E	E	E	Sodium Benzoate, 22% in w	E	E	E	Water, Distilled	E	E	E
Nitric Acid, 10% in w	E	E	U	Sodium Bicarbonate, 7% in w	E	E	E	Xylene	U	U	U
Nitric Acid, 35% in w	E	E	U	Sodium Bisulfate, 50% in w	E	E	E	Zinc Chloride, 80% in w	E	E	E
Nitric Acid, 68-71% in w	U	E	U	Sodium Bisulfite	E	E	E	Zinc Salts	E	E	E
Nitrobenzene	U	U	U	Sodium Carbonate, 7% in w (soda ash)	E	E	E	Zinc Sulfate, 30% in w	E	E	E
Nitromethane	U	U	U	Sodium Chlorate, 45% in w	E	E	E				
Nitrous Acid, 10% in w	E	E	F	Sodium Chloride, 20% in w	E	E	E				
Oils, Animal	F	G	E	Sodium Chlorite, 12% in	E	-	-	(1) - If a concentration is not indicated, assume 100% concentration or the maximum percent solubility in water.			
Oils, Essential	U	U	F	Sodium Cyanide, 30% in w	E	E	U				
Oils, Hydraulic (Phosphate Ester)	U	U	G	Sodium Dichromate, 70% in w	E	E	E				
Oils, Hydrocarbon	U	U	E	Sodium Fluoride, 3% in w	E	E	E				
Oils, Vegetable	F	G	E	Sodium Hydroxide, 10-15% in w	E	E	U	NOTE: Concentrations of room temperature liquids are given in % volume. Concentrations of room temperature solids are given in % weight.			
Oleic Acid	F	F	G	Sodium Hydroxide, 30-50% in w	E	E	U	w = Water			
Oleum, 25% in w	E	E	U	Sodium Hypochlorite, 25% in w	E	E	G	alc = Alcohol			
Ortho Dichlorobenzene	U	U	U	Sodium Nitrate, 3.5% in w	E	E	E	- = no data			
Oxalic Acid, 12% in w	G	E	U	Sodium Perborate, 25% in w	E	E	E				
Ozone, 300pphm	E	E	E	Sodium Permanganate, 20% in w	E	-	-				
Palmitic Acid, 100% in ether	F	F	G	Sodium Permanganate, 40% in w	U	-	-				

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