

POLYETHYLENE/CHEMICAL COMPATIBILITY GUIDE

KEY:

L = Products should be suitable for prolonged or repeated contact with these substances, under the conditions specified.

S = These substances may adversely affect the polyethylene. ENPAC products may be suitable for intermittent contact; however, some deterioration in properties may occur. The user should perform qualification tests before or during usage of the container.

N = These substances aggressively attack polyethylene or have vapor pressures incompatible with closed containers. Do not use polyethylene containers in these applications.

Acetaldehyde (40%),	L	Carbon Disulfide,	N	Fatty Alcohol Sulfonate,	L	Naphthalene,	S	Sodium Hypochlorite,	L
Acetamide,	L	Carbonic Acid (Aq.CO2),	L	Ferric Salts,	L	Nickel Salts,	L	Sodium Iodide,	L
Acetic Acid (50%),	L	Carbon Monoxide,	L	Ferric Sulfate,	L	Nicotine, Dilute,	L	Sodium Nitrate,	L
Acetic Acid (100%),	N	Carbon Tetrachloride,	N	Ferrous Salts,	L	Nicotinic Acid,	L	Sodium Oxalate,	L
Acetic Acid Anhydride,	S	Castor Oil Conc.,	L	Ferrous Sulfate,	L	Nitric Acid <50%,	L	Sodium Persulfate,	L
Acetic Ether,	S	Caustic (Aqueous),	L	Fertilizer Salts,	L	Nitrobenzene,	S	Sodium Phosphate,	L
Acetone,	L	Caustic Potash Sol. (50%),	L	Fish Solubles,	L	Nitrotoluene,	S	Sodium Silicate,	L
Acetylene Tetrabromide,	S	Caustic Soda Sol. (10%),	L	Fluoboric Acid,	N	Octyl Cresol,	L	Sodium Sulfate,	L
Acrylic Emulsions,	S	Chloral Hydrate,	L	Fluosilicic Acid (All Conc.),	L	Oils and Fats,	L	Sodium Sulfide,	L
Acrylonitrile,	L	Chloroethanol,	L	Formaldehyde (40%),	L	Oleic Acid (All Conc.),	L	Sodium Sulfite,	L
Adipic Acid,	L	Chloric Acid (10%),	L	Formamide,	N	Oleum Conc.,	N	Sodium Sulfonates,	L
Aliphatic Hydrocarbons (Hexane, Octane, hexene, Octene, Etc.),	L	Chloroacetic Acid,	L	Formic Acid (All Conc.),	L	Olive Oil,	L	Sodium Thiosulfate,	L
Allyl Alcohol (96%),	L	Chlorobenzene,	L	Fruit Pulp,	L	Orange Extract,	L	Spindle Oil,	L
Alum (Aqueous Solutions),	L	Chloroform,	N	Fuel Oil,	L	Oxalic Acid (All Conc.),	L	Stannic Salts,	L
Aluminum Chloride (20%),	L	Chloromethane,	N	Furfural (100%),	L	Palmitic Acid,	N	Stannous Salts,	L
Aluminum Fluoride,	L	Chlorosulfonic Acid 100%,	N	Furfuryl Alcohol,	N	Palm Oil,	S	Starch Solution Sat'd,	L
Aluminum Hydrogen Solution (10%),	L	Chromic Acid (50%),	L	Gallic Acid Sat'd,	L	Paraffin Emulsions,	L	Stearic Acid (All Conc.),	L
Aluminum Hydroxide,	L	Cider,	L	Gasoline,	L	Paraffin Oil,	L	Succinic Acid,	L
Alums (All Types),	L	Citric Acid (All Conc.),	L	Gasohol,	L	Perchloric Acid (50%),	L	Sugar Solutions, Glucose,	L
Ammonia (Anhydrous),	L	Clorox Bleach,	L	Gelatine,	N	Perchloroethylene,	N	Lactose, Sucrose, etc.,	L
Ammonia (Aqueous),	L	Coconut Oil Alcohols,	L	Gen, L	L	Petroleum,	L	Sulfur,	L
Ammonia (100% Dry Gas),	L	Cola Concentrates,	L	Gluconic Acid (All Conc.),	L	Petroleum Ether,	S	Sulfuric Acid (98%),	S
Ammonium Salts,	L	Compressed Air Conditioning Oil,	L	Glucose,	L	Phenol (90%),	N	Sulfuric Acid, Fuming,	N
Ammonium Acetate,	L	Copper Salts,	L	Glycerine,	L	Phenylhydrazine,	N	Sulfurous Acid,	L
Ammonium Bifluoride,	L	Copper Cyanide,	L	Glycol,	L	Phosphoric Acid All Conc.,	N	Sulfuryl Chloride,	N
Ammonium Carbonate 50%,	L	Copper Nitrate,	L	Glycol Ethers,	L	Phosphorous Chlorides,	S	Tallow,	L
Ammonium Chloride,	L	Copper Sulfate,	L	Glycolic Acid (All Conc.),	L	Phosphorous Yellow (100%),	L	Tannic Acid,	L
Ammonium Hydrogen Fluoride (50%),	L	Corn Oil,	L	Grape Sugar Sat'd Aq.,	L	Phosphorous Pentoxide,	L	Tanning Extracts,	L
Ammonium Hydroxide,	L	Cottonseed Oil,	L	Heptane,	L	Photographic Solutions,	L	Tartaric Acid Sat'd,	L
Ammonium Metaphosphate Sat'd,	L	Cresol (90%),	L	Hexane,	L	Phthalic Acid (All Conc.),	L	Tetrachloroethane,	N
Ammonium Nitrate (10%),	L	Cresylic Acid,	L	Hexanol Tert,	L	Phthalic Anhydride,	L	Tetrachloroethylene,	N
Ammonium Nitrate Sat'd,	L	Croric Aldehyde,	L	Hydrazine Hydrate,	L	Pickling Baths, Sulfuric Acid,	L	Tetraethyl Lead,	L
Ammonium Persulfate Sat'd,	L	Cuprous Chloride Sat'd,	L	Hydrochloric Acid (10%),	L	Hydrochloric Acid,	L	Tetrahydrofuran,	N
Ammonium Phosphate,	L	Cyclohexane,	L	Hydrochloric Acid (All Conc.),	L	Picric Acid (1%),	L	Tetrahydronaphthalene,	N
Ammonium Sulfate (1%),	L	Cyclohexanol,	L	Hydrofluoric Acid (All Conc.),	L	Plating Solutions,	L	Thionyl Chloride,	N
Ammonium Sulfate Sat'd,	L	Cyclohexanone,	L	Hydrofluorsilicic Acid (All Conc.),	L	Potash,	L	Tin Salts,	L
Ammonium Sulfide Sat'd,	L	Detergents, General,	S	Hydrogen Bromide (10%),	L	Potassium/Aluminum Sulfates (50%),	L	Titanium Salts,	S
Ammonium Thiocyanate Sat'd,	L	Developer, Photographic,	L	Hydrogen Peroxide (90%),	L	Potassium Bichromate,	L	Toluene,	S
Amyl Acetate,	L	Dextrin Sat'd,	L	Hydrogen Phosphide 100%,	L	Potassium Borate (10%),	L	Toluene Sulfonic Acid (All Conc.),	S
Amyl Alcohol (100%),	L	Dextrose Sat'd,	L	Hydroquinone,	L	Potassium Bromide,	L	Transformer Oil,	L
Amyl Chloride,	N	Dibutyl Ether,	N	Hydrogen Sulfide,	L	Potassium Chlorate,	L	Tributylphosphate,	L
Aniline (100%),	S	Dibutylphthalate,	S	Hypochlorous Acid,	L	Potassium Chloride,	L	Trichloroacetic Acid,	S
Aniline Hydrochloride,	S	Dichloroacetic Acid,	S	Inks,	L	Potassium Chromate,	L	Trichloroethane,	N
Animal Fats,	L	Dichloroacetic Acid, Methyl Ester,	S	Iodine (Alc. Sol.) Conc.,	L	Potassium Cyanide,	L	Trichloroethylene,	N
Anti-Freeze,	L	Dichlorobenzene, Liquid,	N	Iron Salts,	L	Potassium Dichromate 40%,	L	Tricresyl Phosphate,	L
Antimony Salts,	L	Diesel Fuel,	N	Is-Octane,	S	Potassium Ferri/ Ferro Cyanide Sat'd,	L	Triethanolamine,	L
Antimony Trichloride 90%,	L	Diesel Oil,	S	Isopropyl Acetate,	L	Potassium Fluoride,	L	Triocetyl Phosphate,	N
Aqua Regia,	N	Diethyl Carbonate,	L	Isopropyl Alcohol,	L	Potassium Hydroxide,	L	Trisodium Phosphate Sat'd,	L
Aqueous Salt Solutions (NaCl),	L	Diethyl Phthalate,	N	Isopropyl Ether,	N	Potassium Iodide,	L	Trichloroethylene,	N
Aqueous Alkalies (NaOH),	L	Diethylene Glycol,	L	Jetfuel,	S	Potassium Nitrate Sat'd,	L	Turpentine Oil,	N
Arsenic Acid,	L	Diethanolamine,	S	Kerosene,	S	Potassium Nitrate Sat'd,	L	Urea,	N
Arsenic Salts,	L	Diglycolic Acid (30%),	L	Lactic Acid (All Conc.),	L	Potassium Perborate Sat'd,	L	Urine,	L
Barium Salts,	L	Diisobutyl Ketone,	S	Lanolin,	L	Potassium Perchlorate,	L	Vegetable Oils,	L
Barium Carbonate,	L	Dimethylamine,	S	Latex,	L	Potassium Permanganate,	L	Vinegar,	L
Barium Chloride,	L	Dimethyl Formamide,	S	Lead Salts,	L	Potassium Persulfate Sat'd,	L	Vanilla Extract,	L
Barium Cyanide,	L	Dinonyl Phthalate,	N	Lead Acetate Sat'd,	L	Potassium Phosphates,	L	Wax Alcohol,	N
Barium Hydroxide,	L	Diocyl Phthalate,	N	Lime,	S	Potassium Sulfate,	L	Wetting Agents,	L
Barium Nitrate,	L	Dioxane,	L	Linsced Oil,	L	Propanol,	L	Whisky,	L
Barium Sulfate,	L	Diphenyl Oxide,	N	Lithium Salts,	S	Propargyl Alcohol (7%),	L	White Acid (75%),	L
Barium Sulfide,	L	Electrolyte,	L	Lube Oil,	L	Propionic Acid (50%),	L	Wine,	L
Battery Fluid Acid,	S	Emulsions, Photographic,	L	Magnesium Salts,	L	Propyl Alcohol,	L	Xylene,	N
Beef Tallow Emulsion, Sulfonated,	L	Ethanol,	L	Magnesium Carbonate,	L	Propylene Dichloride (100%),	L	Yeast,	L
Beer,	L	Ether,	N	Magnesium Hydroxide,	L	Propylene Glycol,	L	Zinc Salts,	L
Benzaldehyde,	L	Ethyl Acetate (100%),	S	Magnesium Nitrate,	L	Propylene Oxide,	L	Zinc Sulfate,	L
Benzene,	L	Ethyl Alcohol,	L	Magnesium Oxide,	L	Pyridine,	S		
Benzene Sulfonic Acid,	S	Ethyl Butyrate,	S	Magnesium Sulfate,	L	Rayon Coagulation Salts,	L		
Benzoic Acid,	L	Ethyl Chloride,	N	Malic Acid,	L	Rust Inhibitors,	L		
Benzyl Alcohol,	L	Ethyl Ether,	N	Malic Acid (1%),	L	Sea Water,	L		
Benzyl Chloroformate,	L	Ethylene Chloride,	N	Methyl Alcohol (100%),	L	Selenic Acid,	L		
Bismuth Salts,	L	Ethylene Chlorohydrin,	N	Methyl Amine (32%) L,	L	Sewage,	L		
Bleach Lye (10%),	S	Ethylene Diamine,	N	Methyl Bromide,	N	Shortening,	L		
Black Liquor,	L	Ethylene Dichloride,	N	Methyl Chloride,	N	Silicic Acid,	L		
Borax Cold Sat'd,	L	Ethylene Glycol,	L	Methyl Chloride,	N	Silicone Oil,	L		
Boric Acid Dilute,	L	Ethylene Oxide,	N	Methylene Chloride,	N	Silver Salts,	L		
Boric Acid Conc.,	L	Fatty Acids,	L	Methyl Ethyl Ketone,	S	Silver Nitrate,	L		
Bromine, Liquid,	N			Methyl Isobutyl Ketone,	S	Soda Solution (All Conc.),	L		
Bromine, Water,	N			Methyl Isopropyl ketone,	S	Soda Ash,	L		
Bromobenzene,	N			Methyl Sulfate,	L	Sodium Salts,	L		
				Methyl Sulfuric Acid (All Conc.),	L	Sodium Acetate Sat'd,	L		
				Milk,	L	Sodium Acrylates,	L		
				Mineral Oils,	L	Sodium Benzoate,	L		
				Molasses,	L	Sodium Bicarbonate,	L		
				Monochloroacetic Acid Ethyl Ester,	L	Sodium Bisulfate (10%),	L		
				Monochloroacetic Acid Methyl Ester,	L	Sodium Bisulfite,	L		
				Morpholin,	L	Sodium Bromate,	S		
				Mowliith D,	L	Sodium Bromide,	L		
				Muriatic Acid	L	Sodium Bromide Dilute Sol.,	L		
				Naptha,	S	Sodium Carbonate,	L		
						Sodium Chlorate,	L		
						Sodium Chloride,	L		
						Sodium Chlorite,	L		
						Sodium Chromate,	L		
						Sodium Disulfite,	L		
						Sodium Dithionite (10%),	L		
						Sodium Ferricyanide,	L		
						Sodium Ferrocyanide Sat'd,	L		
						Sodium Fluoride Sat'd,	L		
						Sodium Hydroxide Conc.,	L		