



Chemical Compatibility Guide - Polyethylene

For UltraTech Spill Containment Products

This listing was prepared to provide guidance to the chemical compatibility of UltraTech Spill Containment Products which are manufactured and constructed of a molded polyethylene.

Polyethylene is susceptible to attack by some chemicals which may cause stress cracking, swelling, oxidation or may permeate the polyethylene. These reactions may reduce the physical properties of polyethylene.

A = Suitable for long term storage at 100 degrees Fahrenheit or less.

B = Suitable for short term storage less than one year.

C = Do NOT store these chemicals in UltraTech containment products.

User testing may prove some of these chemicals are suitable for secondary containment applications with an exposure time of one week or less.

Acetaldehyde (40%).....A	Acetic Acid (50%).....A	Carbon Bisulfide.....C
Acetamide.....A	Acetic Acid Anhydride.....B	Carbon Disulfide.....C
Acetone.....A	Acetic Ether.....B	Carbon Monoxide.....A
Acetylene Tetrabromide.....B	Barium Carbonate.....A	Carbon Tetrachloride.....C
Acrylic Emulsions.....B	Barium Chloride.....A	Carbonic Acid (Aq. CO2).....A
Acrylonitrile.....A	Barium Cyanide.....A	Caustic (Aqueous).....A
Adipic Acid.....A	Barium Hydroxide.....A	Caustic Potash Sol. (50%).....A
Aliphatic Hydrocarbons.....A	Barium Nitrate.....A	Caustic Soda Sol. (10%).....A
Alkaline.....A	Barium Salts.....A	Chloroacetic Acid.....A
Allyl Alcohol (96%).....A	Barium Sulfate.....A	Chlorobezene.....A
Aluminum Chloride (20%).....A	Barium Sulfide.....A	Chloroform.....C
Aluminum Fluoride.....A	Battery Fluid, Acid.....B	Chloromethane.....C
Aluminum Hydrogen Solution (10%).....A	Benzaldehyde.....A	Chlorosulfonic Acid (100%).....C
Aluminum Hydroxide.....A	Benzene Sulfonic Acid.....B	Chrome Alum Sat'd.....A
Alums (All Types).....A	Benzene.....B	Chromic Acid (50%).....B
Ammonia (Aqueous).....A	Benzoic Acid.....A	Clycolic Acid (All Conc.).....A
Ammonium Acetate.....A	Benzyl Alcohol.....A	Copper Cyanide.....A
Ammonium Bifluoride.....A	Benzyl Chloroformate.....A	Cresylic Acid.....A
Ammonium Carbonate (50%).....A	Boric Acid Conc.....A	Crotonic Aldehyde.....A
Ammonium Chloride.....A	Boric Acid Dilute.....A	Cuprous Chloride Sat'd.....A
Ammonium Hydrogen Fluoride (50%).....A	Borzx Cold Sat'd.....A	Cyclohexanone.....B
Ammonium Hydroxide.....A	Bromine, Liquid.....C	Cyclohexane.....A
Ammonium Metaphosphate Sat'd.....A	Bromine, Water.....C	Cyclohexanol.....A
Ammonium Nitrate Sat'd.....A	Bromobenzene.....C	Dextrin Sat'd.....A
Ammonium Persulfate Sat'd.....A	Bromoform.....C	Dextrose Sat'd.....A
Ammonium Phosphate.....A	Butadiene.....A	Di Isobutyl Ketone.....B
Ammonium Salts.....A	Butanediol (100%).....A	Dibutyl Ether.....C
Ammonium Sulfate Sat'd.....A	Butanol.....A	Dibutyl Sebacate.....B
Ammonium Sulfide, Sat'd.....A	Butyl Acetate.....A	Dibutylphthalate.....B
Ammonium Thiocyanate Sat'd.....A	Butyl Alcohol (100%).....A	Dichloroacetic Acid.....B
Amyl Acetate.....A	Butyl Phenol.....C	Dichlorobenzene, Liquid.....C
Amyl Alcohol (100%).....A	Butylene Glycol.....A	Dichloroethylene.....C
Amyl Chloride.....C	Butylene Liquid.....C	Diesel Fuel.....B
Aniline (100%).....B	Butylene.....C	Diesel Oil.....B
Aniline Hydrochloride.....B	Butyric Acid.....A	Diethanolamine.....B
Anti Freeze.....A	Calcium Carbonate.....A	Diethyl Carbonate.....A
Antimony Salts.....A	Calcium Chloride.....A	Diethylene Glycol.....A
Antimony Trichloride (90%).....A	Calcium Hydroxide.....A	Diglycolic Acid (30%).....A
Aqua Regia.....C	Calcium Hypochlorite.....A	Dimethyl Formamide.....B
Aqueous Alkalies (NaOH).....A	Calcium Nitrate (50%).....A	Dimethylamine.....B
Arsenic Acid.....A	Calcium Sulfate.....A	Dinonyl Phthalate.....C

When considering an UltraTech polyethylene product for use in secondary containment applications, it is important to note that most secondary containment products are designed to hold leaked chemicals for only hours, a day, at most a week.

These secondary containment units would then be cleaned of any chemical. In these short term applications, a greater variety of chemicals may be used with the polyethylene since the exposure time of the chemical to the polyethylene is limited.



Diocetyl Phthalate	C	Magnesium Hydroxide	A	Potassium Hydroxide	A
Dioxane	A	Magnesium Nitrate	A	Potassium Nitrate Sat'd	A
Diphenyl Oxide	C	Magnesium Oxide	A	Potassium Perborate Sat'd	A
Disodium Phosphate	A	Magnesium Salts	A	Potassium Perchlorate	A
Electrolyte	A	Magnesium Sulfate	A	Potassium Phosphates	A
Ethanol	A	Maleic Acid	A	Potassium Sulfate	A
Ether	C	Methanol	A	Propanol	A
Ethyl Acetate (100%)	B	Methyl Acetate	A	Propargyl Alcohol (7%)	A
Ethyl Alcohol	A	Methyl Alcohol (100%)	A	Propionic Acid (50%)	A
Ethyl Butyrate	B	Methyl Amine (32%)	A	Propyl Alcohol	A
Ethyl Chloride	C	Methyl Bromide	C	Propylene Dichloride (100%)	A
Ethyl Ether	C	Methyl Chloride	C	Propylene Glycol	A
Ethylene Chloride	C	Methyl Ethyl Ketone	B	Propylene Oxide	A
Ethylene Chlorohydrin	A	Methyl Isobutyl Ketone	B	Pyridine	B
Ethylene Diamine	A	Methyl Isopropyl Ketone	B	Selenic Acid	A
Ethylene Dichloride	C	Methyl Sulfate	A	Sewage	A
Ethylene Glycol	A	Methyl Sulfuric Acid (All Conc.)	A	Silicic Acid	A
Ethylene Oxide	C	Methylene Chloride	C	Silver Nitrate	A
Fatty Acids	A	Mineral Oils	A	Soda Ash	A
Ferric Sulfate	A	Monochloroacetic Acid Ethyl Ester	A	Sodium Acetate Sat'd	A
Ferrous Salts	A	Monochloroacetic Acid Methyl Ester	A	Sodium Benzoate	A
Ferrous Sulfate	A	Mowilith D	A	Sodium Bisulfate (10%)	A
Fluoboric Acid	A	Naptha	B	Sodium Bisulfite	A
Fluosilicic Acid (All Conc.)	A	Napthalene	B	Sodium Bromate	B
Formaldehyde (40%)	A	Nicotine Dilute	A	Sodium Chloride	A
Formamide	A	Nicotinic Acid	A	Sodium Chlorite	A
Formic Acid (All Conc.)	A	Nitric Acid (50%)	A	Sodium Chromate	A
Fuel Oil	A	Nitrobenzene	B	Sodium Disulfite	A
Furfural (100%)	A	Nitrotoluene	B	Sodium Dithionite (10%)	A
Furfuryl Alcohol	C	Octyl Cresol	A	Sodium Fluoride Sat'd	A
Gallic Acid Sat'd	A	Oleic Acid (All Conc.)	A	Sodium Hydroxide Conc	A
Gasoline	A	Oleum Conc	C	Sodium Hypochlorite	A
Gluconic Acid (All Conc.)	A	Oxalic Acid (All Conc.)	A	Sodium Nitrate	A
Glycerine	A	Palmitic Acid	C	Sodium Oxalate	A
Glycol	A	Paraffin Emulsions	A	Sodium Persulfate	A
Heptane	A	Perchloric Acid (50%)	A	Sodium Phosphate	A
Hexane	A	Perchloroethylene	B	Sodium Sulfonates	A
Hydrazone Hydrate	A	Petroleum Ether	B	Stearic Acid (All Conc.)	A
Hydrobromic Acid (50%)	A	Petroleum	A	Succinic Acid	A
Hydrochloric Acid (All Conc.)	A	Phenylhydrazine	C	Sulfuric Acid (98%)	B
Hydrocyanic Acid Sat'd	A	Phosphoric Acid (All Conc.)	A	Sulfuric Acid, Fuming	C
Hydrofluoric Acid (All Conc.)	A	Phosphorous (Yellow 100%)	A	Sulfurous Acid	A
Hydrofluorosilicic Acid (All Conc.)	A	Phosphorous Chlorides	B	Sulfuryl Chloride	C
Hydrogen Bromide (10%)	A	Phosphorous Pentoxide	A	Tartaric Acid Sat'd	A
Hydrogen Peroxide (90%)	A	Photographic Solutions	A	Tetrachlorethylene	C
Hydrogen Phosphide (100%)	A	Phthalic Acid (All Conc.)	A	Tetrachloroethane	C
Hydrogen Sulfide	A	Phthalic Anhydride	A	Tetrahydrofuran	C
Hydroiodic Acid (All Conc.)	A	Pickling Baths	A	Tetrahydronaphthalene	C
Hydroquinone	A	• Sulfuric Acid	A	Thionyl Chloride	C
Hydro sulfite (10%)	A	• Hydrochloric Acid	A	Titanium Salts	B
Hydroxylamine Sulfate	A	Picric Acid (1%)	A	Toluene Sulfonic Acid (All Conc.)	B
Hydrozine (35%)	A	Plating Solutions	A	Toluene	B
Hydrozine Hydrochloride	A	Potassium Aluminum Sulfates (50%)	A	Transformer Oil	A
Hypochlorous Acid	A	Potassium Bichromate	A	Tributylphosphate	A
Iso Octane	B	Potassium Borate (10%)	A	Trichloroacetic Acid	B
Isopropyl Acetate	A	Potassium Bromide	A	Trichloroethane	C
Isopropyl Alcohol	A	Potassium Chlorate	A	Trichloroethylene	C
Isopropyl Ether	C	Potassium Chloride	A	Tricresyl Phosphate	A
Jet Fuel	B	Potassium Chromate	A	Triethanolamine	A
Kerosene	B	Potassium Cyanide	A	Trioctyl Phosphate	C
Lactic Acid (All Conc.)	A	Potassium Dichromate (40%)	A	Trisodium Phosphate Sat'd	A
Lead Acetate Sat'd	A	Potassium Ferri Ferro Cyanide Sat'd	A	Turpentine Oil	C
Magnesium Carbonate	A	Potassium Fluoride	A	Xylene	C