

Choosing the right Polyethylene Secondary Containment Unit

Spill containment comes in a variety of forms but there are several things that make High Density Polyethylene (HDPE) the most effective, and why most Hazero secondary containment products are made from this material.

The chart on the following pages will help you determine if your hazardous substances are suitable for short or long term storage. Or, in some cases they may not be suitable at all.

If a particular chemical is not listed below, please contact our expert team for advice.

Products

The following table lists all Hazero products that the polyethylene compatibility guide is applicable to.



**Hazero Work Floor – Large
(01-1023)**

Low Profile Work Floors

01-1022	01-1074
01-1023	01-1082
01-1024	01-1083
01-1072	01-1084
01-1073	01-1081



**Hazero Spill Pallet – Single IBC
(01-1025)**

Drum / IBC Spill Pallets

01-1020	01-1025
01-1021	01-1026
01-1043	01-1095



**Hazero 4 Drum Hardcover –
(01-1064)**

Outdoor Containment

01-1061	01-1063
01-1078	01-1064
01-1079	01-1097
01-1080	



**Hazero Spill Tray – 100L
(01-1040)**

Spill Trays

01-1032	01-1038
01-1036	01-1040



**New Pig Overpack Drum – 20L
(03-1003)**

Overpack Drums

01-1003	01-1000
01-1001	



**Hazero Drum Trolley –
(01-1029)**

Mobile Containment

01-1029

Polyethylene Compatibility Guide

KEY for Polyethylene Compatibility Guide:

L (Long term) - Products should be suitable for prolonged or repeated contact with these substances, under the conditions specified.

S (Short term) - These substances may adversely affect the polyethylene. Hazero 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 (Not suitable) - These substances aggressively attack polyethylene or have vapor pressures incompatible with closed containers. Do not use polyethylene containers in these applications.

Acetaldehyde (40%)	L	Barium Salts	L	Chloroform	N	Ethyl Chloride	N
Acetamide	L	Barium Carbonate	L	Chloromethane	N	Ethyl Ether	N
Acetic Acid (50%)	L	Barium Chloride	L	Chlorosulfonic Acid 100%	N	Ethylene Chloride	N
Acetic Acid (100%)	N	Barium Cyanide	L	Chrome Alum Sat'd	L	Ethylene Chlorohydrin	L
Acetic Acid Anhydride	S	Barium Hydroxide	L	Chromic Acid (50%)	S	Ethylene Diamine	L
Acetic Ether	S	Barium Nitrate	L	Cider	L	Ethylene Dichloride	N
Acetone	L	Barium Sulfate	L	Citric Acid (All Conc.)	L	Ethylene Glycol	L
Acetylene Tetrabromide	S	Barium Sulfide	L	Clorox Bleach	L	Ethylene Oxide	N
Acrylic Emulsions	S	Battery Fluid Acid	S	Coconut Oil Alcohols	L	Fatty Acids	L
Acrylonitrile	L	Beef Tallow Emulsion, Sulfonated	L	Cola Concentrates	L	Fatty Alcohol Sulfonate	L
Adipic Acid	L	Beer	L	Compressed Air Conditioning Oil	L	Ferric Salts	L
Aliphatic Hydrocarbons (Hexane, Octane, hexene, Octene, Etc.)	L	Benzaldehyde	L	Copper Salts	L	Ferric Sulfate	L
Allyl Alcohol (96%)	L	Benzene	L	Copper Cyanide	L	Ferrous Salts	L
Alum (Aqueous Solutions)	L	Benzene Sulfonic Acid	S	Copper Nitrate	L	Ferrous Sulfate	L
Aluminum Chloride (20%)	L	Benzoic Acid	L	Copper Sulfate	L	Fertilizer Salts	L
Aluminum Fluoride	L	Benzyl Alcohol	L	Corn Oil	L	Fish Solubles	L
Aluminum Hydrogen Solution (10%)	L	Benzyl Chloroformate	L	Cottonseed Oil	L	Fluoboric Acid	L
Aluminum Hydroxide	L	Bismuth Salts	L	Cresol (90%)	L	Fluosilicic Acid (All Conc.)	L
Alums (All Types)	L	Bleach Lye (10%)	S	Cresylic Acid	L	Formaldehyde (40%)	L
Ammonia (Anhydrous)	L	Black Liquor	L	Crotonic Aldehyde	L	Formamide	L
Ammonia (Aqueous)	L	Borax Cold Sat'd	L	Cuprous Chloride Sat'd	L	Formic Acid (All Conc.)	L
Ammonia (100% Dry Gas)	L	Boric Acid Dilute	L	Cyclohexane	L	Fruit Pulp	L
Ammonium Salts	L	Boric Acid Conc.	L	Cyclohexanol	L	Fuel Oil	L
Ammonium Acetate	L	Bromine, Liquid	N	Cyclohexanone	S	Furfural (100%)	L
Ammonium Bifluoride	L	Bromine, Water	N	Detergents, General	L	Furfuryl Alcohol	N
Ammonium Carbonate 50%	L	Bromobenzene	N	Developer, Photographic	L	Gallic Acid Sat'd	L
Ammonium Chloride	L	Bromoform	N	Dextrin Sat'd	L	Gasoline	L
Ammonium Hydrogen Fluoride (50%)	L	Butadiene	L	Dextrose Sat'd	L	Gasohol	L
Ammonium Hydroxide	L	Butane	L	Dibutyl Ether	N	Gelatine	L
Ammonium Metaphosphate Sat'd	L	Butanediol (100%)	L	Dibutylphthalate	S	Gin	L
Ammonium Nitrate (10%)	L	Butanol	L	Dibutyl Sebacate	S	Gluconic Acid (All Conc.)	L
Ammonium Nitrate Sat'd	L	Butyl Acetate	L	Dichloroacetic Acid	S	Glucose	L
Ammonium Persulfate Sat'd	L	Butyl Alcohol (100%)	L	Dichloroacetic Acid, Methyl Ester	S	Glycerine	L
Ammonium Phosphate	L	Butylene	N	Dichlorobenzene, Liquid	N	Glycol	L
Ammonium Sulfate (1%)	L	Butylene Glycol	L	Dichloroethylene	N	Glycol Ethers	L
Ammonium Sulfate Sat'd	L	Butylene Liquid	N	Diesel Fuel	S	Glycolic Acid (All Conc.)	L
Ammonium Sulfide Sat'd	L	Butyl Phenol	N	Diesel Oil	S	Grape Sugar Sat'd Aq.	L
Ammonium Thiocyanate Sat'd	L	Butyric Acid	L	Diethyl Carbonate	L	Heptane	L
Amyl Acetate	L	Calcium Carbonate	L	Disodium Phosphate	L	Hexane	L
Amyl Alcohol (100%)	L	Calcium Chloride	L	Diazo Salts	L	Hexanol Tert	L
Amyl Chloride	N	Calcium Hydroxide	L	Diethylene Glycol	L	Hydrazine Hydrate	L
Aniline (100%)	S	Calcium Hypochlorite	L	Diethanolamine	S	Hydro sulfite (10%)	L
Aniline Hydrochloride	S	Calcium Nitrate (50%)	L	Diglycolic Acid (30%)	L	Hydroxylamine Sulfate	L
Animal Fats	L	Calcium Sulfate	L	Di-Isobutyl Ketone	S	Hydrazine (35%)	L
Anti-Freeze	L	Camphor Oil	N	Dimethylamine	S	Hydrazine Hydrochloride	L
Antimony Salts	L	Carbon Disulfide	N	Dimethyl Formamide	S	Hydroiodic Acid (All Conc.)	L
Antimony Trichloride 90%	L	Carbonic Acid (Aq.CO2)	L	Dinonyl Phthalate	N	Hydrobromic Acid (50%)	L
Aqua Regia	N	Carbon Monoxide	L	Diocetyl Phthalate	N	Hydrocyanic Acid Sat'd	L
Aqueous Salt Solutions (NaCl)	L	Carbon Tetrachloride	N	Dioxane	L	Hydrochloric Acid (All Conc.)	L
Aqueous Alkalies (NaOH)	L	Castor Oil Conc.	L	Diphenyl Oxide	N	Hydrofluoric Acid (All Conc.)	L
Arsenic Acid	L	Caustic (Aqueous)	L	Electrolyte	L	Hydrofluorosilicic Acid (All Conc.)	L
Arsenic Salts	L	Caustic Potash Sol. (50%)	L	Emulsions, Photographic	L	Hydrogen Bromide (10%)	L
		Caustic Soda Sol. (10%)	L	Ethanol	L	Hydrogen Peroxide (90%)	L
		Chloral Hydrate	L	Ether	N	Hydrogen Phosphide 100%	L
		Chloroethanol	L	Ethyl Acetate (100%)	S	Hydroquinone	L
		Chloric Acid (10%)	L	Ethyl Alcohol	L	Hydrogen Sulfide	L
		Chloroacetic Acid	L	Ethyl Butyrate	S	Hypochlorous Acid L	L
		Chlorobenzene	L			Inks	L

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Iodine (Alc. Sol.) Conc.	L	Nicotinic Acid	L	Potassium Sulfate	L	Spindle Oil	L
Iron Salts	L	Nitric Acid <50%	L	Propanol	L	Stannic Salts	L
Iso-Octane	S	Nitrobenzene	S	Propargyl Alcohol (7%)	L	Stannous Salts	L
Isopropyl Acetate	L	Nitrotoluene	S	Propionic Acid (50%)	L	Starch Solution Sat'd	L
Isopropyl Alcohol	L	Octyl Cresol	L	Propyl Alcohol	L	Stearic Acid (All Conc.)	L
Isopropyl Ether	N	Oils and Fats	L	Propylene Dichloride (100%)	L	Succinic Acid	L
Jetfuel	S	Oleic Acid (All Conc.)	L	Propylene Glycol	L	Sugar Solutions, Glucose, Lactose, Sucrose, etc.	L
Kerosene	S	Oleum Conc.	N	Propylene Oxide	L	Sulfur	L
Lactic Acid (All Conc.)	L	Olive Oil	L	Pyridine	S	Sulfuric Acid (98%)	S
Lanolin	L	Orange Extract	L	Rayon Coagulation Salts	L	Sulfuric Acid, Fuming	N
Latex	L	Oxalic Acid (All Conc.)	L	Rust Inhibitors	L	Sulfurous Acid	L
Lead Salts	L	Palmitic Acid	N	Sea Water	L	Sulfuryl Chloride	N
Lead Acetate Sat'd	L	Palm Oil	S	Selenic Acid	L	Tallow	L
LIME	L	Paraffin Emulsions	L	Sewage	L	Tannic Acid	L
Linseed Oil	L	Paraffin Oil	L	Shortening	L	Tanning Extracts	L
Lithium Salts	L	Perchloric Acid (50%)	L	Silicic Acid	L	Tartaric Acid Sat'd	L
Lube Oil	L	Perchloroethylene	N	Silicone Oil	L	Tetrachloroethane	N
Magnesium Salts	L	Petroleum	L	Silver Salts	L	Tetrachloroethylene	N
Magnesium Carbonate	L	Petroleum Ether	S	Silver Nitrate	L	Tetraethyl Lead	L
Magnesium Hydroxide	L	Phenol (90%)	L	Soda Solution (All Conc.)	L	Tetrahydrofuran	N
Magnesium Nitrate	L	Phenylhydrazine	N	Soda Ash	L	Tetrahydronaphthalene	N
Magnesium Oxide	L	Phosphoric Acid All Conc	L	Sodium Salts	L	Thionyl Chloride	N
Magnesium Sulfate	L	Phosphorous Chlorides	S	Sodium Acetate Sat'd	L	Tin Salts	L
Maleic Acid	L	Phosphorous Yellow (100%)	L	Sodium Acrylates	L	Titanium Salts	S
Malic Acid (1%)	L	Phosphorous Pentoxide	L	Sodium Benzoate	L	Toluene	S
Mercuric Salts	L	Photographic Solutions	L	Sodium Bicarbonate	L	Toluene Sulfonic Acid (All Conc.)	S
Mercurous Salts	L	Phthalic Acid (All Conc.)	L	Sodium Bisulfate (10%)	L	Transformer Oil	L
Mercury	L	Phthalic Anhydride	L	Sodium Bisulfite	L	Tributylphosphate	L
Methanol	L	Pickling Baths, Sulfuric Acid, Hydrochloric Acid	L	Sodium Bromate	S	Trichloroacetic Acid	S
Methyl Acetate	L	Picric Acid (1%)	L	Sodium Bromide	L	Trichloroethane	N
Methyl Alcohol (100%)	L	Plating Solutions	L	Sodium Bromide Dilute Sol.	L	Trichloroethylene	N
Methyl Amine (32%)	L	Potash	L	Sodium Carbonate	L	Tricresyl Phosphate	L
Methyl Bromide	N	Potassium/Aluminum Sulfates (50%)	L	Sodium Chlorate	L	Triethanolamine	L
Methyl Chloride	N	Potassium Bichromate	L	Sodium Chloride	L	Trioctyl Phosphate	N
Methylene Chloride	N	Potassium Borate (10%)	L	Sodium Chlorite	L	Trisodium Phosphate Sat'd	L
Methyl Ethyl Ketone	S	Potassium Bromide	L	Sodium Chromate	L	Trichloroethylene	N
Methyl Isobutyl Ketone	S	Potassium Chlorate	L	Sodium Disulfite	L	Turpentine Oil	L
Methyl Isopropyl ketone	S	Potassium Chromate	L	Sodium Dithionite (10%)	L	Urea	L
Methyl Sulfate	L	Potassium Chloride	L	Sodium Ferricyanide	L	Vegetable Oils	L
Methyl Sulfuric Acid (All Conc.)	L	Potassium Chromate	L	Sodium Ferrocyanide Sat'd	L	Vinegar	L
Milk	L	Potassium Cyanide	L	Sodium Fluoride Sat'd	L	Vanilla Extract	L
Mineral Oils	L	Potassium Dichromate 40%	L	Sodium Hydroxide Conc.	L	Wax Alcohol	N
Molasses	L	Potassium Dichromate 40%	L	Sodium Hypochlorite	L	Wetting Agents	L
Monochloroacetic Acid Ethyl Ester	L	Potassium Ferri/ Ferro Cyanide Sat'd	L	Sodium Iodide	L	Whisky	L
Monochloroacetic Acid Methyl Ester	L	Potassium Fluoride	L	Sodium Nitrate	L	White Acid (75%)	L
Morpholin	L	Potassium Hydroxide	L	Sodium Oxalate	L	Wine	L
Mowilith D	L	Potassium Iodide	L	Sodium Persulfate	L	Xylene	N
Muriatic Acid/Naptha	S	Potassium Nitrate Sat'd	L	Sodium Phosphate	L	Yeast	L
Naphthalene	S	Potassium Perborate Sat'd	L	Sodium Silicate	L	Zinc Salts	L
Nickel Salts	L	Potassium Perchlorate	L	Sodium Sulfate	L	Zinc Sulfate	L
Nicotine, Dilute	L	Potassium Permanganate	L	Sodium Sulfide	L		
		Potassium Persulfate Sat'd	L	Sodium Sulfite	L		
		Potassium Phosphates	L	Sodium Sulfonates	L		
				Sodium Thiosulfate	L		

Important User Notice

This data is a compilation of existing data obtained from leading chemical companies and independent reports and does not represent actual testing conducted. This report is offered as a guide and was developed from information which, to the best of our knowledge, was reliable and accurate. Due to variables and conditions of application beyond our control, none of the data shown in this guide is to be construed as a guarantee, expressed or implied. We assume no responsibility, obligation, or liability in conjunction with the use or misuse of the information herein.

The Hazero team are available to discuss your particular situation and make a recommendation - contact our helpful team at help@hazero.co.nz or call 0800 688 844 for expert guidance.