

# POLYETHYLENE

## ROTATIONAL AND INJECTION MOLDED PRODUCTS

**Y =** YES, RECOMMENDED

**S =** SOMETIMES, SUITABLE INTERMITTENTLY

**N =** NO, NOT RECOMMENDED

**CHEMICAL RATING**

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