

Chemical Resistance

The following pages detail the performance of Rubbermaid plastics when exposed to chemicals. The first table generalizes performance with respect to broad chemical families. The remaining tables detail recommendations for use in exposure to specific chemicals.

Explanation of ratings

- E EXCELLENT** – The plastic was unaffected in any way for the duration of the test.
- G GOOD** – A very slight clouding or discoloration took place. Expected life – months to years.
- F FAIR** – Moderate effect. Slight etching, some discoloration, possibly some dimensional changes or weight change. Expected life – weeks to months.
- P POOR** – Considerable change. Expected life – days.
- N NOT RECOMMENDED** – Severe attack. Plastic became soft in a few hours, and was unusable within a few days or by end of test.
- S SOLVENT**

General Chemical Resistance Characteristics of Rubbermaid Commercial Products

Plastics at Room Temperature

| Chemical Class | Polystyrene | ABS | High & Low Density Polyethelane & Polypropolene | Polycarbonate & Polyetherimide |
|-------------------------|-------------|-----|---|--------------------------------|
| Acids, Inorganic | | | | |
| weak | G | G | E | E |
| strong | G | G | E | G |
| strong oxidizing | F | N | G | N |
| Acids, Organic | | | | |
| weak | E | G | E | E |
| strong | E | G | E | N |
| Alcohols | G | F | E | E |
| Aldehydes | N | N | E | |
| Amines | | | | |
| Aliphatic | E | G | E | N |
| aromatic | N | N | E | N |
| Bases | E | E | E | P |
| Beverages | E | E | E | E |
| Condiments | G | E | E | E |
| Esters | N | N | G | N |
| Foodstuffs | E | E | E | E |
| Glycols | | | | |
| polyglycols | E | E | E | E |
| polyglycol ethers | N | N | E | |
| Hydrocarbons | | | | |
| aliphatic | N | G | N | G |
| aromatic | N | N | N | N |
| chlorinated | N | N | N | N |
| Insecticides | N | N | G | N |
| Ketones | N | N | G | N |
| Oils | | | | |
| essential oils | N | N | F | |
| vegetable oils | G | G | E | G |
| Pharmaceuticals | E | E | E | E |
| Salts | E | E | E | E |

General Chemical Resistance Characteristics of Rubbermaid Commercial Products

Plastics at Room Temperature

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|----------------------------------|-------------|-----|--------------------------|---|---------------|
| Acetaldehyde | N | N | F | F | N |
| Acetic Acid 50% | F | G | E | E | G |
| Glacial | N | N | G | E | G |
| Acetic Anhydride | N | N | E | E | N |
| Acetone | N | S | G | E | N |
| Acetophenone | N | S | G | G | N |
| Acetamide (Powder) | E | E | E | E | |
| Saturated Solution | E | E | E | E | |
| Acetyl-dl-Alanine (Powder) | E | E | E | E | |
| Acetyl-dl-Leucine-n | E | E | E | E | |
| Acetyl-dl-Menthionine-n (Powder) | E | E | E | E | |
| Acetyl-dl-Tryptophan-n (Powder) | E | E | E | E | |
| Acetyl-dl-Valine-n (Powder) | E | E | E | E | |
| Acetylene Tetrabromide | N | N | N | N | N |
| Acetophenetidin | E | E | E | E | |
| Adipic Acid | E | E | G | E | |
| Alanine-dl | E | E | E | E | |
| Allyl Alcohol | F | N | E | E | G |
| Aloin (Powder) | G | E | E | E | |
| Aluminum Acetate | G | E | G | E | |
| Aluminum Chloride | G | G | G | E | |
| Aluminum Fluoride | G | E | G | E | |
| Aluminum Hydroxide | G | G | G | E | N |
| Aluminum Oxalate | G | E | G | E | |
| Aluminum Potassium Sulfate | G | E | E | E | G |
| Aluminum Sulfate | G | E | G | E | G |
| Aluminum Sodium Sulfate | G | E | E | E | G |
| Amino Acetic Acid (Glycine) | E | E | E | E | |
| Aminobutric-a-dl Acid | E | E | E | E | |
| Aminoisobutyric-2 Acid | E | E | E | E | |
| Ammonia | G | G | G | G | N |
| Ammonium Acetate (Saturated) | G | E | E | E | N |
| Ammonium Aluminum Sulfate | G | E | E | E | N |
| Ammonium Bicarbonate | G | E | G | E | N |
| Ammonium Bifluoride (Saturated) | G | E | E | E | N |
| Ammonium Bromide | G | E | E | E | N |
| Ammonium Carbonate | E | E | E | E | N |
| Ammonium Chloride | G | E | G | E | G |
| Ammonium Dichromate (Saturated) | G | E | G | G | N |
| Ammonium Fluoride 10% | G | E | G | G | N |
| Ammonium Glycolate | G | E | G | G | N |
| Ammonium Hydroxide | F | G | G | G | N |
| Ammonium Metaphosphate | G | E | G | G | N |
| Ammonium Molybdate | G | E | E | E | N |
| Ammonium Nitrate | G | E | G | G | N |
| Ammonium Oxylate | G | E | G | G | N |
| Ammonium Persulfate | G | E | G | G | G |
| Ammonium Phosphate | G | E | G | G | G |
| Ammonium Sulfate | G | E | G | G | N |
| Ammonium Sulfcyanide | G | E | E | E | |
| Ammonium Thicoyanate | G | E | G | G | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|--|-------------|-----|--------------------------|---|---------------|
| Ammonium Thioglycolate | G | E | G | G | |
| Amyl-n Alcohol | G | E | E | E | G |
| Amyl Acetate-n | S | N | F | F | |
| Amyl Chloride | N | N | N | N | |
| Amyl Phthalate | N | N | E | E | |
| Aniline | N | S | G | G | N |
| Aniline Sulphate | G | G | G | G | |
| Anise Seed Oil | N | S | F | F | |
| Anthranilac Acid | E | E | E | E | G |
| Antimony Trichloride | G | G | G | G | |
| Aqua Regia (3 parts conc. HCl-1 part conc. HN03) | F | N | G | G | G |
| Arsenic (Concentrated) | G | E | G | G | |
| Arsenic Trioxide | G | E | G | G | |
| Aspirin Pills | E | E | E | E | G |
| Atropine Sulfate | G | E | E | E | |
| Barium Bromide | E | E | E | E | |
| Barium Carbonate | E | E | E | E | E |
| Barium Chloride | E | E | G | G | G |
| Barium Hydroxide | G | G | G | G | |
| Barium Sulfate | G | E | G | G | E |
| Barium Sulfide | G | E | E | E | |
| Beer | G | E | G | E | G |
| Benzaldehyde | N | N | G | G | N |
| Benzene | N | S | N | F | N |
| Benzene Hexachloride-g | N | N | G | G | |
| Benzene Sulfonic Acid | G | E | G | G | |
| Benzoic Acid Crystals | G | E | E | E | |
| Benzyl Alcohol | N | N | N | N | |
| Benzyl Acetate | N | N | G | G | |
| Bismuth Carbonate | G | E | G | G | |
| Borax (Powder) | G | E | E | E | E |
| Boric Acid | E | E | E | E | |
| Boron Trifluoride | G | G | G | G | |
| Brine | G | E | E | E | E |
| Bromine | N | N | N | N | |
| Bromoacetic Acid | N | N | E | E | |
| Bromobenzene | N | N | N | N | N |
| Bromobutyric-2 Acid | N | N | G | G | |
| Bromoform | N | N | N | N | |
| Bromosalicylic-5 Acid (Powder) | E | E | E | E | |
| Bromo Toluene-m | N | N | N | N | N |
| Butadiene | N | N | N | N | |
| Butane-2, 4-p Methoxy Phenol | N | N | N | N | |
| Butter | E | E | E | E | G |
| Butyl-n Alcohol | F | E | E | E | E |
| Butyl Acetate-n | S | S | F | G | |
| Butyl Chloride | N | N | N | N | |
| Butylphenol-dl-sec | N | N | N | N | |
| Butyl-n Stearate | F | E | G | G | |
| Butylphenol-dl-tert | N | N | N | N | |
| Butyric-n Acid | N | N | N | N | |
| Butyraldehyde | N | N | N | N | N |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|------------------------------------|-------------|-----|--------------------------|---|---------------|
| Cadmium Bromide | E | E | E | E | |
| Caffeine Citrate (Saturated) | G | E | E | E | |
| Calcium Bromide | E | E | E | E | |
| Calcium Carbonate | G | E | G | G | |
| Calcium Chlorate | G | E | E | E | |
| Calcium Chloride Powder | E | E | E | E | G |
| Calcium Chloride Sulfate | G | E | E | E | |
| Calcium Hydroxide (concentrated) | F | G | E | E | |
| Calcium Hypochlorite Powder | E | E | E | G | |
| Calcium Nitrate | G | E | E | E | |
| Calcium Oxide Powder | F | E | E | E | |
| Calcium Salicylate | G | E | E | E | |
| Calcium Sulfate | G | E | G | E | |
| Camphor Crystals | N | G | G | E | |
| Camphor Oil | F | E | N | N | |
| Carbazole | E | E | E | E | |
| Carbon Bisulfide | N | N | N | N | |
| Carbon Dioxide | G | G | G | G | G |
| Carbon Monoxide | G | G | G | G | G |
| Carbon Tetrachloride | N | N | N | P | N |
| Carnauba Wax | G | E | E | E | |
| Carrot Juice | E | E | E | E | E |
| Castor Oil U.S.P. | G | E | E | E | E |
| Catsup | G | E | E | E | G |
| Cedar Leaf Oil | N | N | P | P | |
| Cedar Wood Oil | N | F | N | N | |
| Cellosolve Acetate | N | N | G | G | |
| Cesium Bromide | E | G | E | E | |
| Cetyl Alcohol | E | G | E | E | |
| Chlorine 10% in air | F | F | F | F | |
| Chloro-1, Nitropropane-1 | N | N | N | N | |
| Chloro-2phenylphenol-4 | N | N | G | G | |
| Chloroacetic Acid (Powder) | P | N | E | E | |
| Chlorobenzene | N | S | N | N | N |
| Chloroform | S | N | N | F | N |
| Chlorophenol-o | N | N | N | N | N |
| Chlorophenylphenol-4 and 6 mixture | N | N | G | G | |
| Chloropropionic Acid | N | N | E | E | N |
| Chlorosulphonic Acid | P | F | N | N | |
| Chromic Acid | F | G | E | E | G |
| Chromic and Sulfuric Acid Mixture | N | N | G | G | G |
| Cider | G | E | G | G | G |
| Cinnamon | G | F | E | E | |
| Cinnamon Oil | N | N | N | N | |
| Citric Acid Crystals | E | E | E | E | G |
| Citronella Oil | N | N | P | F | |
| Cloves (Ground) | N | N | G | G | |
| Clove Oil | N | N | G | G | |
| Coconut Oil | F | E | E | E | G |
| Cod Liver Oil | G | E | E | E | G |
| Copper Chloride | G | E | G | G | |
| Copper Cyanide | G | E | G | E | |
| Copper Fluoroborate | G | E | G | E | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|--|-------------|-----|--------------------------|---|---------------|
| Copper Nitrate | G | E | G | E | |
| Copper Sulfate | F | E | G | E | |
| Corn Oil | P | E | E | E | G |
| Cottonseed Oil | F | E | E | E | G |
| Cranberry Sauce | G | E | E | E | |
| Cresol | N | N | N | N | N |
| Cresotinic-o Acid | E | G | E | E | |
| Cumyl Phenol-p | N | N | N | N | |
| Cuprous Oxide | G | E | E | E | |
| Cyanoacetic Acid | E | E | E | E | |
| Cyclohexyl Alcohol | E | E | E | E | E |
| Cyclohexane | N | N | N | N | E |
| Cyclohexanone | N | S | F | F | N |
| Decalin | N | N | N | N | G |
| Dehydroacetic Acid Powder | F | E | E | E | |
| Diacetone | F | N | E | E | N |
| Dibutoxyethyl Phthalate | N | N | E | E | |
| Dibutyl Phthalate | N | N | E | E | N |
| Dibutyl Sebacate | N | N | E | E | |
| Dichlorobenzene-p (Paradow) | N | N | P | F | N |
| Dichlorobenzene-o | N | S | N | N | N |
| Dichloro-Diphenyl-Trichloroethane 75% (D.D.T.) | N | G | E | E | |
| Diethanolamine | G | E | G | G | N |
| Diethyl Benzene | N | N | N | N | N |
| Diethyl Ether | N | N | N | N | G |
| Diethyl Ketone | S | S | F | F | N |
| Diethyl Malonate | N | N | E | E | N |
| Diethyl Phthalate | N | N | E | E | N |
| Diethylene Glycol | G | E | G | E | |
| Diethylene Glycol Butyl Ether | N | N | E | E | G |
| Diethylene Glycol Ethyl Ether | N | N | E | E | G |
| Diethylene Glycol Methyl Ether | F | N | E | E | G |
| Diethylene Triamine | F | N | G | E | N |
| Dihydroxyhenyl alanine-34-dl-B | E | G | E | E | |
| Dimethyl-dichloro-vinyl-phosphate | N | N | G | G | |
| Dimethyl Formamide | N | S | E | E | N |
| Diocetyl Phthalate | N | N | E | E | |
| Dioxane-1,4 | N | S | F | F | N |
| Diphenyl Amine | N | N | E | E | N |
| Diphenyl Oxide | N | N | F | F | |
| Dipropylene Glycol | G | E | E | E | G |
| Dipropylene Glycol Methyl Ether | N | N | E | E | G |
| Ethyl Benzoate | N | N | P | F | |
| Ethyl Bromoacetate | N | N | G | G | |
| Ethyl Butyrate | N | N | F | F | N |
| Ethyl Chloride | N | N | N | N | |
| Ethyl Chloroacetate | N | N | G | G | N |
| Ethyl Cyanoacetate | G | N | E | E | |
| Ethyl Lactate | P | N | E | E | |
| Ethyl Monochloro Acetate | N | N | G | G | |
| Ethyl Salicylate | N | N | F | F | |
| Ethylene Chloride | N | N | N | N | N |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|--|-------------|-----|--------------------------|---|---------------|
| Ethylene Chlorohydrin | F | F | N | N | |
| Ethylene Diamine | F | F | E | E | N |
| Ethylene Dichloride | N | N | N | N | N |
| Ethylene Glycol | E | E | E | E | G |
| Ethylene Glycol Butyl Ether | N | E | E | E | G |
| Ethylene Glycol p-sec-Butylphenyl Ether | N | E | E | E | G |
| Ethylene Glycol p-tert-Butylphenyl Ether | F | F | E | E | G |
| Ethylene Glycol Ethyl Ether | N | N | E | E | G |
| Ethylene Glycol Methyl Ether | P | N | E | E | G |
| Ethylene Glycol Phenyl Ether | N | N | E | E | |
| Ethylene Oxide | N | N | P | P | G |
| Ethylene Trichloride | N | N | N | N | |
| Eugenol | N | N | N | N | |
| Ferric Ammonium Sulfate Crystals | P | E | E | E | |
| Ferric Chloride | G | E | E | E | G |
| Ferric Nitrate | G | E | G | G | |
| Ferric Sulfate | G | E | E | E | |
| Ferrous Ammonium Citrate | G | E | G | G | |
| Ferrous Chloride | P | E | G | G | |
| Ferrous Sulfate | G | E | G | G | |
| Fluoboric | G | G | G | G | |
| Fluorine | N | N | F | F | |
| Fluosillicic | G | G | G | G | |
| Formaldehyde | G | E | E | E | |
| Formic Acid | G | G | G | G | G |
| Furaldehyde-2 | N | N | G | G | N |
| Furfuryl Alcohol | F | N | N | N | |
| Gallic Acid (Powder) | E | E | E | E | |
| Gasoline | N | E | N | P | |
| Glycerine | F | E | E | E | G |
| Glycerol Triacetate | N | N | F | F | |
| Glucose | G | E | E | E | |
| Grape Juice | F | G | E | E | G |
| Grapefruit Juice | P | G | E | E | G |
| Heptane-n | N | N | P | F | G |
| Heptyl-2 Alcohol | G | G | G | G | G |
| Hexacholoobenzene | G | E | E | E | |
| Hexane | N | E | N | P | G |
| Hexyl-n Alcohol | G | E | E | E | G |
| Hexyl-2 Alcohol | G | E | E | E | G |
| Hydrobromic | F | G | G | E | |
| Hydrochloric | F | E | E | E | G |
| Hydrochlorous | P | G | E | E | |
| Hydrocyanic | F | G | G | E | |
| Hydrofluoric | F | G | G | G | G |
| Hydrogen | E | E | E | E | |
| Hydrogen Peroxide | G | E | E | E | G |
| Hydroxylamine Hydrochloride (Concentrated) | E | G | E | E | |
| Hydroquinone (Powder) | G | G | E | E | |
| Hypochlorous Acid | F | G | E | E | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|--|-------------|-----|--------------------------|---|---------------|
| Isobutyl Alcohol | G | G | E | E | E |
| Iodine Crystals | N | N | F | F | C |
| Iso-octane | P | G | F | F | G |
| Isoleucine-dl | E | E | E | E | |
| Isopropyl Alcohol | G | E | E | E | G |
| Isopropyl Acetate | N | N | F | F | |
| Isopropyl Benzene | N | S | N | N | N |
| Isopropylphenol-o | N | N | N | N | |
| Isopropylphenol-p | N | N | N | N | |
| Kerosene | N | G | N | F | |
| Lactic Acid | G | G | G | G | |
| Lanolin | G | E | E | E | |
| Lard | E | E | E | E | E |
| Lauryl Alcohol | G | E | G | G | E |
| Lauryl Sulfate | G | G | G | G | |
| Lead Acetqate Crystals | G | E | E | E | |
| Lead Arsenate | F | G | G | E | |
| Lead Nitrate | F | E | E | E | |
| Lemon Juice | P | G | E | E | G |
| Lemon Oil | N | F | N | F | G |
| Leucine-dl (Powder) | E | E | E | E | |
| Lime Juice (concentrated) | N | G | E | E | |
| Linseed Oil | G | E | E | E | |
| Lithium Bromide (Saturated) | G | G | E | E | |
| Lysine-Monohydrochloride-dl (Powder) | E | G | E | E | |
| Lysine-Dihydrochloride-dl (Powder) | E | G | E | E | |
| Magnesium Bromide | E | G | E | E | |
| Magnesium Carbonate | G | G | E | E | |
| Magnesium Chloride | G | G | G | G | |
| Magnesium Chloride Sulfate | F | G | E | G | |
| Magnesium Hydroxide | G | G | G | G | |
| Magnesium Iodide (Saturated) | G | G | E | E | |
| Magnesium Nitrate | G | G | G | E | |
| Magnesium Sulfate | E | G | G | G | |
| Maleic Acid | G | G | G | E | |
| Margarine | G | E | E | E | G |
| Mercapto Acetic Acid (95%) | F | N | G | G | |
| Mercuric Chloride | G | G | G | G | |
| Mercuric Cyanide | G | G | G | G | |
| Mercurous Chloride | G | G | G | G | |
| Mercurous Nitrate | G | G | G | G | |
| Mesityl Oxide | N | N | P | P | |
| Methionine-dl (Powder) | E | E | E | E | |
| Methoxyethyl Oleate | N | N | G | G | |
| Methyl Acetate (82%) | N | N | G | G | |
| Methyl Alcohol | F | P | E | E | G |
| Methyl Amyl Alcohol | E | E | E | E | G |
| Methyl Bromide Liquid under 20 psi pressure | N | N | N | N | |
| Methyl Bromoacetate | N | N | F | F | |
| Methyl Chloride Liquid under 65 psi pressure | N | N | N | N | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|--|-------------|-----|--------------------------|---|---------------|
| Methylcychohexane | N | G | P | P | G |
| Methyl Ethyl Ketone | N | S | G | G | N |
| Methyl Eugenol | N | N | N | N | |
| Methyl Isobutyl Ketone | N | S | F | F | N |
| Methyl Propyl Keton | S | S | F | F | N |
| Methyl Salicylate | N | N | F | G | |
| Methylene Bromide | N | N | N | N | |
| Milk | E | G | G | G | G |
| Mineral Oil USP | E | E | F | E | E |
| Mannitol alcohol | G | P | E | E | |
| Mono-Di-Tri-Propylene Glycol-Methyl Ethers | N | N | E | E | |
| Monoethylaniline | N | N | G | G | N |
| Morpholine | N | N | F | G | |
| Mustard (Prepared) | G | E | E | E | |
| Naphtha (VMP) | N | E | N | N | G |
| Naphthalene | E | N | G | G | |
| Natural Gas (Wet) | F | G | E | E | |
| Nickel Chloride | G | E | G | G | |
| Nickel Nitrate | G | E | G | G | |
| Nickel Sulfate | G | E | G | G | |
| Nitric Acid | G | G | E | E | G |
| 70% (Concentrated) | N | N | G | G | |
| Nitrobenzene | N | N | N | N | N |
| Nitroglycerine | E | G | G | G | |
| Nitrosyl Chloride | N | N | N | N | |
| Nitrous Acid | N | N | N | N | |
| Nonyl-n Alcohol | E | E | E | E | |
| Nutmeg Oil | N | N | N | N | |
| Octane-n | N | N | E | E | |
| Octyl-n Alcohol | F | E | E | E | |
| Octyl Cresol | N | N | F | F | |
| Oleic Acid | G | E | E | E | G |
| Olive Oil | G | E | E | E | G |
| Orange Juice | F | G | E | E | E |
| Orange Oil | N | G | N | N | |
| Orange Peelings (Fresh) | N | G | E | E | |
| Oxalic Acid (Powder) | G | G | E | E | G |
| Ozone | F | G | G | G | |
| Palmitic Acid (Powder) | G | E | E | E | |
| Palm Oil | P | E | E | E | |
| Parachlordine | N | F | F | F | |
| Paraffin Oil | G | E | G | G | G |
| Paraldehyde | N | N | G | G | |
| Peanut Butter | E | E | E | E | G |
| Pentachlorophenol | E | G | E | E | |
| Pepper (Fresh Ground) | P | P | G | G | |
| Peppermint Oil | N | N | P | G | |
| Perchloric Acid | F | G | E | E | G |
| Perchloroethylene | N | N | N | N | |
| Petroleum Jelly | G | E | E | E | E |
| Phenol Crystals | N | N | F | F | |
| Phenolsulfonic Acid | G | G | E | E | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|--|-------------|-----|--------------------------|---|---------------|
| Phenoxyacetic Acid | E | E | E | E | |
| PhenylEthyl Alcohol | N | N | E | E | |
| PhenylGlycinePotassium Salt | E | E | E | E | |
| Phenyl Hydrazine | N | F | G | G | |
| Phenylphenol-o | G | N | E | E | |
| Phenylphenol-p | E | F | E | E | |
| Phenylphenol-o Sodium Salt | E | E | E | E | |
| Phosphoric Acid | G | G | E | E | G |
| Phosphoric Anhydride | G | G | G | E | |
| Phthalic Anhydride | F | G | G | G | |
| Phosphorus Oxychloride | N | N | N | N | |
| Phosphorus Pentachloride | N | N | N | N | |
| Phosphorus Trichloride | N | N | G | G | |
| Picric Acid | G | G | E | E | |
| Pine Oil | N | N | F | G | |
| Pine Needle Oil | N | P | N | N | |
| Polyethylene Glycol Monolaurate | N | E | E | E | G |
| Polyglycol E-300 to E-4000 | E | E | E | G | |
| Potassium Aluminum Chloride (50%) | G | E | G | G | |
| Potassium Aluminum Sulfate (Saturated) | P | E | G | G | |
| Potassium Bicarbonate | G | E | G | G | G |
| Potassium Bisulfate | G | E | E | E | |
| Potassium Borate | G | E | G | G | |
| Potassium Bromate (Powder) | E | E | E | E | |
| Potassium Bromide | E | E | E | E | |
| Potassium Carbonate | G | E | G | G | |
| Potassium Chlorate | G | E | G | G | |
| Potassium Chloride | G | E | G | G | |
| Potassium Chloride Sulfate | G | E | E | E | |
| Potassium Cyanide | G | E | G | G | |
| Potassium Dichromate (Saturated) | G | E | G | G | |
| Potassium Ferricyanide | F | E | E | G | |
| Potassium Hydroxide | F | E | E | E | N |
| Potassium Iodide | F | G | E | E | |
| Potassium Manganate | G | G | E | E | |
| Potassium Nitrate | G | G | G | G | |
| Potassium Permanganate | F | G | G | G | G |
| Potassium Persulfate | G | E | E | E | |
| Potassium Sulfate | E | G | E | E | |
| Potassium Sulfide | F | G | E | E | |
| Propane Gas | N | G | N | N | |
| Propargyl Alcohol | F | F | G | G | |
| Propyl-n Alcohol | G | G | E | E | G |
| Propyl Dichloride | N | N | P | P | N |
| Propylene Dibromide` | N | N | N | N | |
| Propylene Dichloride | N | S | N | N | N |
| Propylene Glycol | G | G | E | E | |
| Propylene Glycol Methyl Ether | N | N | E | E | |
| Propylene Oxide | N | N | G | G | |
| Quinine Sulfate | G | E | G | G | |
| Resourcinol (Powder) | E | E | E | E | |
| Salicyladehyde | N | S | G | G | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|--|-------------|-----|--------------------------|---|---------------|
| Salicylic Acid (Powder) | G | E | E | E | |
| Salicylic Ointment | G | G | G | G | |
| Sassafrass Oil | N | N | G | G | |
| Serine-dl | E | E | E | E | |
| Sesame Oil | G | E | G | G | |
| Silver Acetate | G | E | E | E | |
| Silver Nitrate | F | E | E | E | |
| Skelly Solvent, boiling range 60-70°C | N | N | N | N | |
| Sodium Acetate (Powder) | G | E | E | E | G |
| Sodium Aluminum Sulfate | G | G | E | E | |
| Sodium Benzoate (Powder) | G | E | E | E | |
| Sodium Bicarbonate | F | E | E | E | G |
| Sodium Bisulfate | G | E | E | E | |
| Sodium Bisulfite | F | E | E | E | |
| Sodium Borate | G | E | E | E | |
| Sodium Bromate | G | E | E | E | |
| Sodium Bromide | E | G | E | E | |
| Sodium Carbonate | E | E | E | E | |
| Sodium Chlorate | G | E | G | G | |
| Sodium Chloride | G | E | G | G | G |
| Sodium Chloride Sulfate | G | E | E | E | |
| Sodium Chloracetate (Powder) | E | E | E | E | |
| Sodium Dichromate | E | E | E | E | |
| Sodium Ferricyanide | G | E | G | G | |
| Trichloroethane | N | S | N | N | |
| Trichloroethylene | S | S | N | N | |
| Trichloroophenol-2,4,5 | N | N | G | G | |
| Sodium Nitrate | G | G | E | E | |
| Sodium Nitrite | G | E | G | E | |
| Sodium Perborate | G | E | E | E | |
| Sodium Phosphate | G | E | E | E | |
| Sodium Salicylate (Powder) | E | G | E | E | |
| Sodium Silicate | G | G | G | E | |
| Sodium Sulfate | G | E | E | E | |
| Sodium Sulfide | G | E | E | E | |
| Sodium Sulfite | F | E | E | E | |
| Sodium Tetraborate (Borax) (Powder) | G | E | E | G | |
| Sodium Thiosulfate | G | E | E | E | G |
| Sorbitol | E | E | E | E | |
| Soybean Oil | F | E | E | E | |
| Spearmint Oil | N | N | P | P | |
| Sperm Oil | F | E | E | E | |
| Spermacet | G | E | E | E | |
| Spruce Oil | N | N | P | P | |
| Stannic Chloride | G | G | G | E | |
| Stannous Chloride | G | G | G | E | |
| Stearic Acid (Crystals) | G | G | E | E | |
| Strontium Bromide | E | E | E | E | |
| Strontium Salicylate (Powder) | G | E | E | E | |
| Sucrose | G | E | G | E | |
| Sulfur Chloride | N | N | N | N | |
| Sulfer Dioxide Dry | F | G | E | E | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|---------------------------------------|-------------|-----|--------------------------|---|---------------|
| Sulfuric Acid 1%-6% | G | G | E | E | G |
| 98% | N | N | E | E | N |
| Sulfur Ointment | G | G | E | E | |
| Sulfurous Acid | G | G | E | E | |
| Sulfur Trioxide | G | G | G | G | |
| Sulfuryl Chloride | N | N | N | N | |
| Tannic Acid (Powder) | P | E | E | E | |
| Tartaric (Powder) | G | E | E | E | |
| Tea (Brewed) | G | E | E | E | G |
| Tea (Instant Paste) | F | E | E | E | |
| Tetrachloroethane | N | N | N | N | |
| Tetrachlorophenol-2,3,4,6 | E | G | G | E | |
| Tetrahydrofurn | S | S | P | F | N |
| Tetralin | N | S | N | N | |
| Thioglycolic Acid | G | G | E | E | |
| Thionyl Chloride | N | N | N | N | |
| Titanium Tetrachloride | N | G | N | N | G |
| Toluene | N | S | P | F | N |
| Tomato Juice | F | G | E | E | G |
| Tribromoethylbenzene | N | N | N | N | |
| Trichloroacetic (Crystals) | N | N | G | G | |
| Trichlorobenzene-1,2,4 | N | N | N | N | |
| Sodium Fluoride | G | E | E | E | |
| Sodium Hydroxide | F | E | E | E | |
| Sodium Hypochlorite 5.00% Chlorine | G | G | E | E | |
| Trichlorophenol, Sodium Salt-2,4,5 | E | G | E | E | |
| Trichlorophenol, Sodium Salt 5%-2,4,5 | P | F | G | G | |
| Tricresyl Phosphate | F | G | E | E | |
| Triethanolamine | G | E | E | E | G |
| Triethylene Glycol | G | E | E | E | |
| Triethylenetertramine | F | G | G | G | |
| Tripropylene Glycol | G | G | E | E | |
| Tripropylene Glycol Methyl Ether | N | N | E | E | |
| Trisodium Phosphate (Powder) | G | E | E | E | |
| Tryptophan-dl (Powder) | E | E | E | E | |
| Turkey Red Oil | F | E | G | G | |
| Turpentine | N | N | N | F | |
| Tyrosine-dl (Powder) | E | E | E | E | |
| Undecyl Alcohol | E | E | E | E | |
| Urea | F | G | G | G | |
| Valine-dl (Powder) | E | E | E | E | |
| Vanilla Extract | G | G | E | E | |
| Vaseline Petroleum Jelly | G | E | E | E | |
| Vinegar | G | E | E | E | G |
| Vinyl Chloride | N | N | N | N | |
| Vinylidene Chloride | N | N | N | N | |
| Walnut Oil | F | E | G | G | |
| Water | E | E | E | E | G |
| Whiskey | F | F | E | E | |
| Xylene-o | N | S | N | N | |
| Zinc Bromide | E | G | E | E | |
| Zinc Carbonate | E | E | E | E | |

| Chemical Class | Polysterene | ABS | Low Density Polyethelane | High Density Polyethelane & Polypropelene | Polycarbonate |
|-------------------------|--------------------|------------|---------------------------------|--|----------------------|
| Zinc Chloride (Powder) | G | E | E | E | |
| Zinc Hydrosulfite (10%) | G | E | E | E | |
| Zinc Oxide | G | E | E | E | |
| Zinc Oxide Ointment | G | E | E | E | |
| Zinc Sulfate | G | E | E | E | |
| Zinc Sterate | F | G | E | E | |