# TMI, LLC.

## CHEMICAL RESISTANCE GUIDE

CHEMICAL EFFECT RATING

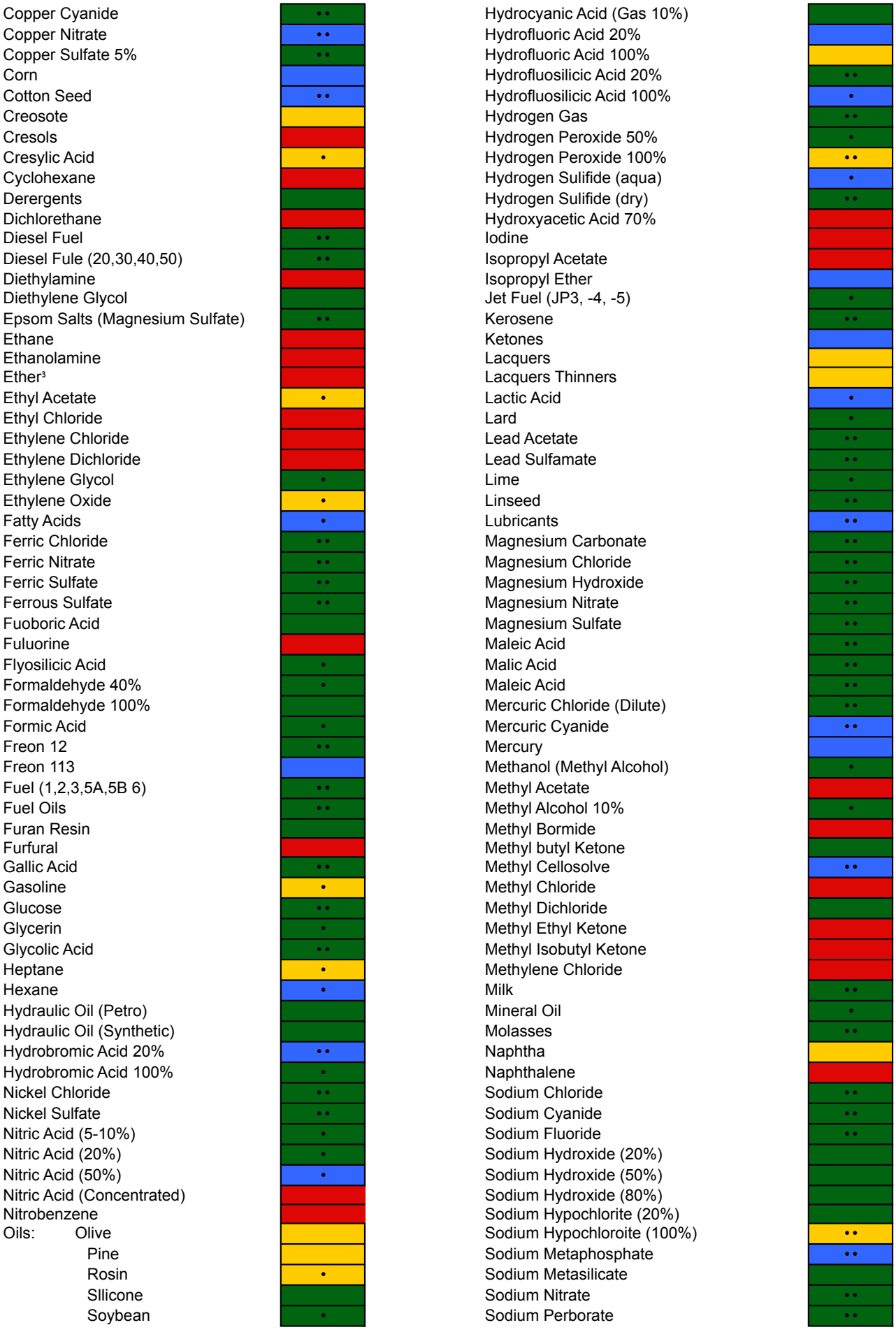
- No Effect - Excellent
- Minor Effect - Good
- Moderate Effect - Fair
- Severe Effect - Poor
- Not Tested

EXPLANATION OF BULLETS

- • Satisfactory to 72˚ F
- •• Satisfactory to 120˚ F

| | PVC |
|---|---|
| Acetaldehyde | |
| Acetamide | |
| Acetate Solvent | |
| Acetic Acid Glacial | |
| Acetic Acid 20% | |
| Acetic Acid | |
| Acetic Anhydride | |
| Acetone | |
| Acetyl Chloride (dry) | |
| Acetylene | • |
| Alcohols: Amyl | •• |
| Benzyl | |
| Butyl | •• |
| Diacetone | • |
| Ethyl | |
| Hexyl | •• |
| Isobutyl | • |
| Isopropyl | • |
| Methyl | • |
| Octyl | |
| Propyl | • |
| Aluminum Chloride | •• |
| Aluminum Fluoride | •• |
| Aluminum Hydroxide | •• |
| Aluminum Potassium Sulfate 100% | •• |
| Aluminum Sulfate | •• |
| Amines | |
| Ammonia 10% | • |
| Ammonia, anhydrous | •• |
| Ammonia, liquid | •• |
| Ammonia Nitrate | |
| Ammonium Bifluoride | •• |
| Ammonimu Carbonate | •• |
| Ammonium Chloride | •• |
| Ammonium Hydroxide | |
| Ammonium Nitrate | •• |
| Ammonium Persulfate | •• |
| Ammonium Phosphate, Dabasic | •• |
| Ammonium Phosphate, Monobasic | |
| Ammonium Phosphate, Tribasic | |
| Ammonium Sulfate | •• |
| Amyl Acetate | • |
| Amyl Alcohol | •• |
| Amyl Chloride | |
| Aniline | • |
| Anti-Freeze | |
| Antimony Trichloride | •• |
| Chromic Acid 30% | •• |
| Chromic Acid 50% | •• |
| Citirc Acid | •• |
| Clorox (Bleach) | |
| Copper Chloride | |

| | PVC |
|---|---|
| Aqua Regina (80% HCl, 20% $HNO^3$) | • |
| Aromatic Hydrocarbons | |
| Arsenic Acid | • |
| Barium Carbonate | •• |
| Barium Chloride | • |
| Barium Cyanide | |
| Barium Hydroxide | •• |
| Barium Nitrate | |
| Barium Sulfate | • |
| Barium Sulfide | •• |
| Beer | • |
| Beet Sugar Liquids | •• |
| Benzaldehyde | |
| Benzene | • |
| Benzoic Acid | |
| Borax (Sodium Borate) | • |
| Borix Acid | •• |
| Bromine | • |
| Butadiene | • |
| Butane | • |
| Butanol (Butyl Alcohol) | • |
| Butylene | • |
| Butylacetate | |
| Butyric Acid | • |
| Calcium Bisulfide | •• |
| Calcium Bisuifite | |
| Calcium Carbonate | •• |
| Calcium Chloride | •• |
| Calcium Hydroxide | •• |
| Calcium Hypochorite | • |
| Calcium Sulfate | •• |
| Carbolic Acid (see Phenol) | |
| Carbon Bisulfide | |
| Carbon Dioxide | |
| Carbon Disulfide | |
| Carbon Monxide | •• |
| Carbo Tetrachloride | • |
| Carbonate Water | |
| Carbonic Acid | •• |
| Chloroacetic Acid | • |
| Chlorine, Anhydrous liquid | • |
| Chlorine, dry | •• |
| Chlorine Water | •• |
| Chlorobenzene (Mono) | |
| Chloroform | |
| Chlorosulfonic Acid | |
| Chromic Acid 5% | |
| Hydrobromic Acid, Dry Gas | •• |
| Hydrochloric Acid 20% | •• |
| Hydrochloric Acid 37% | |
| Hydrochloric Acid 100% | •• |
| Hydrocyanic Acid | • |


Copper Cyanide
Copper Nitrate
Copper Sulfate 5%
Corn
Cotton Seed
Creosote
Cresols
Cresylic Acid
Cyclohexane
Derergents
Dichlorethane
Diesel Fuel
Diesel Fule (20,30,40,50)
Diethylamine
Diethylene Glycol
Epsom Salts (Magnesium Sulfate)
Ethane
Ethanolamine
Ether³
Ethyl Acetate
Ethyl Chloride
Ethylene Chloride
Ethylene Dichloride
Ethylene Glycol
Ethylene Oxide
Fatty Acids
Ferric Chloride
Ferric Nitrate
Ferric Sulfate
Ferrous Sulfate
Fuoboric Acid
Fuluorine
Flyosilicic Acid
Formaldehyde 40%
Formaldehyde 100%
Formic Acid
Freon 12
Freon 113
Fuel (1,2,3,5A,5B 6)
Fuel Oils
Furan Resin
Furfural
Gallic Acid
Gasoline
Glucose
Glycerin
Glycolic Acid
Heptane
Hexane
Hydraulic Oil (Petro)
Hydraulic Oil (Synthetic)
Hydrobromic Acid 20%
Hydrobromic Acid 100%
Nickel Chloride
Nickel Sulfate
Nitric Acid (5-10%)
Nitric Acid (20%)
Nitric Acid (50%)
Nitric Acid (Concentrated)
Nitrobenzene
Oils: Olive
Pine
Rosin
Sllicone
Soybean
Hydrocyanic Acid (Gas 10%)
Hydrofluoric Acid 20%
Hydrofluoric Acid 100%
Hydrofluosilicic Acid 20%
Hydrofluosilicic Acid 100%
Hydrogen Gas
Hydrogen Peroxide 50%
Hydrogen Peroxide 100%
Hydrogen Sulifide (aqua)
Hydrogen Sulifide (dry)
Hydroxyacetic Acid 70%
Iodine
Isopropyl Acetate
Isopropyl Ether
Jet Fuel (JP3, -4, -5)
Kerosene
Ketones
Lacquers
Lacquers Thinners
Lactic Acid
Lard
Lead Acetate
Lead Sulfamate
Lime
Linseed
Lubricants
Magnesium Carbonate
Magnesium Chloride
Magnesium Hydroxide
Magnesium Nitrate
Magnesium Sulfate
Maleic Acid
Malic Acid
Maleic Acid
Mercuric Chloride (Dilute)
Mercuric Cyanide
Mercury
Methanol (Methyl Alcohol)
Methyl Acetate
Methyl Alcohol 10%
Methyl Bormide
Methyl butyl Ketone
Methyl Cellosolve
Methyl Chloride
Methyl Dichloride
Methyl Ethyl Ketone
Methyl Isobutyl Ketone
Methylene Chloride
Milk
Mineral Oil
Molasses
Naphtha
Naphthalene
Sodium Chloride
Sodium Cyanide
Sodium Fluoride
Sodium Hydroxide (20%)
Sodium Hydroxide (50%)
Sodium Hydroxide (80%)
Sodium Hypochlorite (20%)
Sodium Hypochloroite (100%)
Sodium Metaphosphate
Sodium Metasilicate
Sodium Nitrate
Sodium Perborate

| | |
|---|---|
| Turbine | • |
| Oleic Acid | •• |
| Oleum 25% | |
| Oleum 100% | |
| Oxalic Acid (cold) | • |
| Paraffin | • |
| Pentane | |
| Perchloroethylene | • |
| Petrolatum | |
| Phenol (10%) | • |
| Phenol (Carbolic Acid) | • |
| Phosphoric Acid (<40%) | •• |
| Phosphoric Acid (>40%) | •• |
| Phosphoric Acid (Crude) | •• |
| Photographic Developer | |
| Picric Acid | |
| Potash | |
| Potassium Bicarbonate | |
| Potassium Bromide | |
| Potassium Carbonate | |
| Potassium Chlorate | |
| Potassium Chromate | |
| Potassium Cyanide Solutions | |
| Potassium Dichromate | |
| Potassium Ferrocyanide | |
| Potassium Hydroxide (Caustic Potash) | • |
| Potassium Nitrate | |
| Potassium Permanganate | • |
| Potassium Sulfate | •• |
| Potassium Sulfide | •• |
| Propane (liquified) | • |
| Propylene Glycol | • |
| Pyridine | |
| Pyrogallic Acid | |
| Rosins | • |
| Sea Water | •• |
| Silicone | |
| Silver Nitrate | • |
| Soap Solutions | |
| Sodium Acetate | • |
| Sodium Bicarbonate | •• |
| Sodium Bisulfate | •• |
| Sodium Bisulfite | •• |
| Sodium Borate | •• |
| Sodium Carbonate | •• |
| Sodium Chlorate | • |

| | |
|---|---|
| Sodium Polyphosphate | • |
| Sodium Silicate | •• |
| Sodium Sulfate | •• |
| Sodium Sulfide | •• |
| Sodium Tetraborate | •• |
| Sodium Thiosulfate (hypo) | •• |
| Stannic Chloride | •• |
| Stannous Chloride | • |
| Sulfur Dioxide | • |
| Sulfur Dioxide (dry) | •• |
| Sulfur Trioxide (dry) | • |
| Sulfuric Acid (10%) | • |
| Sulfuric Acid (10-75%) | • |
| Sulfurous Acid | •• |
| Tannic Acid | • |
| Tanning Liquours | • |
| Tartaric Acid | • |
| Tomato Juice | |
| Urine | |
| Vinegar | •• |
| Water, Acid, Mine | •• |
| Water, Distilled | •• |
| Water, Fresh | •• |
| Water, Salt | •• |
| Whiskey & Wines | •• |
| White Liquor (Pulp Mill) | •• |
| Xylene | |
| Zinc Chloride | •• |
| Zinc Sulfate | •• |