

## Acrylic (PMMA) Chemical Compatibility Chart

| Chemical                            | 20°C | 50°C  | Chemical                         | 20°C | 50°C  |
|-------------------------------------|------|-------|----------------------------------|------|-------|
|                                     | 68°F | 122°F |                                  | 68°F | 122°F |
| Accumulator Acid                    | D    | D     | Aldehydes                        | D    | D     |
| Acetaldehyde (Ethanal)              | C    | D     | Alkyl Acetone                    | D    | D     |
| Acetamide                           | B    | D     | Alkyl Chloride                   | D    | D     |
| Acetic Acid, anhydrous              | D    | D     | Allyl Alcohol (2-Propene-1-ol)   | D    | D     |
| Acetate Solvent                     | D    | D     | Allyl Ether Acetate              | D    | D     |
| Acetic Acid, 50%                    | D    | D     | Alum                             | B    | D     |
| Acetic Acid, to 25%                 | C    | D     | Alumina                          | C    | D     |
| Acetic Acid, 10%                    | A    | na    | Aluminum Acetate                 | C    | D     |
| Acetic Acid, 5% (vinegar)           | A    | na    | Aluminum Chloride, 10%           | A    | B     |
| Acetic Acid Amide                   | C    | D     | Aluminum Fluoride                | D    | D     |
| Acetic Acid Anhydride               | D    | D     | Aluminum Hydroxide               | C    | C     |
| Acetic Acid Butyl Ester             | D    | D     | Aluminum Hydroxide Acetate       | C    | D     |
| Acetic Acid Chloride                | D    | D     | Aluminum Nitrate                 | C    | D     |
| Acetic Acid Ethyl Ester             | D    | D     | Aluminum Oxalate                 | A    | na    |
| Acetic Acid Pentyl Ester            | A    | na    | Aluminum Oxide                   | C    | D     |
| Acetic Anhydride                    | D    | D     | Aluminum Salts                   | A    | na    |
| Acetone                             | D    | D     | Aluminum Sulfate, 10%            | A    | D     |
| Acetonitrile                        | D    | D     | Alums (Double Sulfate Salts)     | B    | na    |
| Acetophenone (1-Phenylethanone)     | D    | D     | Amines                           | D    | D     |
| Acetyl Benzene                      | D    | D     | Amino Acids                      | B    | B     |
| Acetyl Chloride                     | D    | D     | Amino Methane                    | A    | na    |
| Acetylacetone                       | D    | D     | Aminoacetic Acid                 | C    | D     |
| Acetylene                           | A    | na    | Aminobenzene                     | C    | D     |
| Acetylene Tetrachloride             | D    | D     | Ammonia, gas                     | B    | D     |
| Acetylsalicylic Acid (ASA, Aspirin) | D    | D     | Ammonia, anhydrous               | A    | na    |
| Acids, inorganic                    | C    | D     | Ammonia, aqueous 25%             | A    | D     |
| Acids, organic                      | A    | na    | Ammonia-Based Cleaners           | A    | na    |
| Acrylic Acid                        | D    | D     | Ammonium Acetate                 | A    | na    |
| Acrylic Acid Butyl Ester            | D    | D     | Ammonium Alum                    | D    | D     |
| Acrylic Acid Ethyl Ester            | D    | D     | Ammonium Bifluoride              | na   | na    |
| Acrylic Paints                      | D    | D     | Ammonium Carbonate               | D    | D     |
| Acrylonitrile                       | B    | D     | Ammonium Chloride (Salmiac), 10% | B    | C     |
| Adipic Acid                         | B    | B     | Ammonium Fluoride                | C    | C     |
| Alanine                             | A    | na    | Ammonium Glycolate               | A    | na    |
| Alcohol, denatured                  | C    | D     | Ammonium Hydroxide, 30%          | A    | B     |
| Alcohols                            | C    | D     | Ammonium Hydroxide, 25%          | A    | B     |
| Alcohols, Aliphatic                 | D    | D     | Ammonium Hydroxide, 5%           | A    | B     |

Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)

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|---|----------------------|-----------------------|
| Ammonium Nitrate, 10%                       | A                    | D                     |
| Ammonium Oxalate                            | B                    | D                     |
| Ammonium Peroxodisulfate                    | D                    | D                     |
| Ammonium Persulfate                         | D                    | D                     |
| Ammonium Phosphate, 10%                     | A                    | D                     |
| Ammonium Salts                              | A                    | na                    |
| Ammonium Sulfate                            | B                    | B                     |
| Ammonium Sulfide                            | D                    | D                     |
| Ammonium Thiosulfate                        | na                   | na                    |
| Amyl Acetate                                | C                    | C                     |
| Amyl Alcohol                                | C                    | D                     |
| Amyl Chloride                               | A                    | C                     |
| Aniline                                     | D                    | D                     |
| Animal Fats and Oils                        | A                    | na                    |
| Anise Seed Oil                              | B                    | na                    |
| Anisole                                     | D                    | D                     |
| Anone (Cyclohexanone)                       | D                    | D                     |
| Anthracene                                  | A                    | na                    |
| Antichlor (Sodium Thiosulfate Pentahydrate) | A                    | na                    |
| Antifreeze                                  | A                    | na                    |
| Antimonous Chloride (Antimony Trichloride)  | C                    | D                     |
| Antimony Trichloride (Antimony Butter)      | C                    | D                     |
| Antimony Trichloride, aqueous               | A                    | na                    |
| Aqua Regia                                  | D                    | D                     |
| Aromatic Solvents                           | D                    | D                     |
| Arsenic                                     | A                    | na                    |
| Arsenic Acid                                | A                    | D                     |
| Asphalt                                     | na                   | na                    |
| ASTM #1 Oil                                 | B                    | D                     |
| ASTM #3 Oil                                 | A                    | na                    |
| Aviation Fuel (100 octane)                  | D                    | D                     |
| Axel Grease                                 | A                    | na                    |
| Azotic Acid                                 | D                    | D                     |
| Barium Carbonate                            | A                    | na                    |
| Barium Chloride                             | A                    | A                     |
| Barium Chloride, aqueous 10%                | A                    | A                     |
| Barium Cyanide                              | C                    | D                     |

| <b>Chemical</b>                   | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|-----------------------------------|----------------------|-----------------------|
| Barium Hydroxide (Barium Hydrate) | A                    | D                     |
| Barium Sulfate                    | A                    | D                     |
| Barium Sulfide                    | C                    | D                     |
| Battery Acid, 20%                 | A                    | na                    |
| Bay Leaf Oil                      | B                    | na                    |
| Beer                              | A                    | na                    |
| Beet Sugar Liquids                | A                    | na                    |
| Benzaldehyde (Benzoic Aldehyde)   | C                    | D                     |
| Benzenamine                       | D                    | D                     |
| Benzene (Benzol)                  | D                    | D                     |
| Benzene Sulfonic Acid             | na                   | na                    |
| Benzoic Acid                      | A                    | C                     |
| Benzoyl Chloride                  | D                    | D                     |
| Benzyl Acetate                    | C                    | D                     |
| Benzyl Alcohol (Phenylmethanol)   | D                    | D                     |
| Benzyl Chloride                   | D                    | D                     |
| Benzylamine                       | D                    | D                     |
| Benzylsulfonic Acid               | D                    | D                     |
| Bitumen                           | C                    | D                     |
| Bituminous Emulsions              | D                    | D                     |
| Black Sulfate Liquor              | A                    | na                    |
| Bone Glue (Animal Glue)           | C                    | D                     |
| Borax (Sodium Borate)             | A                    | na                    |
| Boric Acid, 10%                   | A                    | D                     |
| Brake Fluid                       | D                    | D                     |
| Brine                             | A                    | na                    |
| Bromine Gas                       | D                    | D                     |
| Bromine Vapor, dry                | C                    | D                     |
| Bromine Water                     | C                    | na                    |
| Bromobenzene                      | D                    | D                     |
| Bromoform                         | D                    | D                     |
| Bromomethane                      | D                    | D                     |
| Butadiene                         | B                    | na                    |
| Butane Gas                        | A                    | na                    |
| Butanol                           | D                    | D                     |
| Butyraldehyde                     | D                    | D                     |
| Butyl Acetate (n-Butyl Acetate)   | D                    | D                     |

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|--|--------------|---------------|
| Butyl Acetyl Ricinoleate                         | D            | D             |
| Butyl Alcohol (1-Butanol)                        | C            | D             |
| Butyl Amine                                      | D            | D             |
| Butyl Chloride                                   | D            | D             |
| Butyl Ether                                      | D            | D             |
| Butyl Glycolate                                  | A            | na            |
| Butyl Lactate                                    | D            | D             |
| Butyl Methyl Ether                               | D            | D             |
| Butyl Phenol                                     | D            | D             |
| Butyl Stearate                                   | D            | D             |
| Butyric Acid, aqueous over 20%                   | D            | D             |
| Butyric Acid, aqueous 20%                        | C            | D             |
| Butyric Acid, to 5%                              | A            | na            |
| Calcium Acetate                                  | C            | D             |
| Calcium Bicarbonate                              | A            | na            |
| Calcium Bisulfate                                | A            | na            |
| Calcium Carbonate (Chalk, Agricultural Lime)     | A            | A             |
| Calcium Chlorate                                 | A            | na            |
| Calcium Chloride, 10%                            | B            | B             |
| Calcium Hydrate (Milk of Lime)                   | A            | na            |
| Calcium Hydrogen Carbonate                       | A            | na            |
| Calcium Hydroxide, 10%                           | A            | A             |
| Calcium Hypochlorite (Calcium Hypochloride), 10% | B            | C             |
| Calcium Nitrate                                  | A            | D             |
| Calcium Oxide (Burnt Lime)                       | A            | na            |
| Calcium Sulfate, 10%                             | A            | D             |
| Calcium Sulfide                                  | D            | D             |
| Camphor (Camphora)                               | C            | D             |
| Camphora (Camphor)                               | C            | D             |
| Camphoric Oil                                    | C            | D             |
| Car Wash Detergent                               | B            | na            |
| Carbamide  | A            | na            |
| Carbolic Acid (Phenols)                          | D            | D             |
| Carbon Dioxide, gas                              | A            | na            |
| Carbon Disulfide                                 | D            | D             |
| Carbon Monoxide, gas                             | A            | na            |
| Carbon Tetrachloride                             | C            | D             |

| Chemical                                  | 20°C<br>68°F | 50°C<br>122°F |
|---|--------------|---------------|
| Carbonic Acid (Carbonated Water)          | A            | C             |
| Castor Oil                                | A            | na            |
| Caustic Baryta (Barium Hydroxide)         | A            | D             |
| Caustic Potash (Potassium Hydroxide), 50% | A            | D             |
| Caustic Potash (Potassium Hydroxide), 30% | A            | na            |
| Caustic Soda (Sodium Hydroxide), ≥50%     | A            | D             |
| Caustic Soda (Sodium Hydroxide), 1%       | A            | A             |
| Cellosolve                                | D            | D             |
| Cellosolve Acetate                        | B            | na            |
| Cellulose Paints                          | D            | D             |
| Cetyl Alcohol                             | A            | na            |
| Chalk (Calcium Carbonate)                 | A            | na            |
| Chamomile Extract                         | A            | na            |
| Chloral Hydrate                           | D            | D             |
| Chloric Acid                              | D            | D             |
| Chloride vapor, dry                       | C            | D             |
| Chlorinated Hydrocarbons                  | D            | D             |
| Chlorinated Solvents                      | D            | D             |
| Chlorine Gas, dry 10%                     | A            | A             |
| Chlorine Gas, wet 10%                     | C            | D             |
| Chlorine, water solution (5-10 ppm)       | A            | D             |
| Chlorine Dioxide, 0.5%                    | C            | D             |
| Chloroacetaldehyde                        | D            | D             |
| Chloroacetic Acid                         | C            | D             |
| Chloroacetone                             | D            | D             |
| Chlorobenzene                             | D            | D             |
| Chlorobutane                              | D            | D             |
| Chloroethane                              | D            | D             |
| Chloroethanol (2-Chloroethanol)           | D            | D             |
| Chloroethyl Acetate                       | D            | D             |
| Chloroethylene (Vinyl Chloride)           | D            | D             |
| Chloroform                                | D            | D             |
| Chloromethane                             | D            | D             |
| Chlorophenol                              | D            | D             |
| Chlorosulfonic Acid, aqueous 10%          | D            | D             |
| Chlorotoluene                             | D            | D             |
| Chocolate                                 | A            | na            |

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|--------------------------------------|----------------------|-----------------------|
| Chromic Acid, aqueous 50%            | D                    | D                     |
| Chromic Acid, aqueous 20%            | D                    | D                     |
| Chromic Acid, aqueous 10%            | C                    | D                     |
| Chromic Anhydride                    | D                    | D                     |
| Chromic Sulfuric Acid                | D                    | D                     |
| Chromium Trioxide                    | D                    | D                     |
| Chromosulfuric Acid                  | D                    | D                     |
| Cinnamon Oil                         | D                    | D                     |
| Citric Acid, aqueous 20%             | C                    | D                     |
| Citric Acid, aqueous 10%             | A                    | na                    |
| Clove Oil                            | D                    | na                    |
| Cod Liver Oil (Oleum Jecoris Aselli) | A                    | na                    |
| Coffee                               | A                    | A                     |
| Cooking Oil                          | B                    | na                    |
| Copper Chloride                      | A                    | na                    |
| Copper Cyanide                       | A                    | C                     |
| Copper Nitrate                       | A                    | na                    |
| Copper Sulfate                       | A                    | A                     |
| Copper Sulfate, aqueous 5%           | A                    | A                     |
| Corn Oil                             | A                    | na                    |
| Cosmoline Removers                   | D                    | D                     |
| Cottonseed Oil                       | A                    | na                    |
| Cresol                               | D                    | D                     |
| Cumene (Isopropylbenzene)            | D                    | D                     |
| Cyclohexane                          | C                    | D                     |
| Cyclohexanol                         | D                    | D                     |
| Cyclohexanone                        | D                    | D                     |
| Cyclohexene                          | D                    | D                     |
| Cyclopentane                         | B                    | na                    |
| Decahydronaphthalene                 | C                    | D                     |
| Decalin                              | C                    | D                     |
| Decane                               | D                    | D                     |
| Denatured Alcohol                    | C                    | D                     |
| Desiccator Grease                    | D                    | D                     |
| Detergent, Igepal 10%                | A                    | na                    |
| Detergents                           | A                    | na                    |
| Dextrin                              | A                    | na                    |

| <b>Chemical</b>                              | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|--|----------------------|-----------------------|
| Dextrose (D-Glucose)                         | A                    | na                    |
| Diacetone                                    | C                    | D                     |
| Diacetone Alcohol                            | D                    | D                     |
| Diaminoethane                                | D                    | D                     |
| Diamyl Phthalate (Diamylphthalate)           | C                    | D                     |
| Dibenzyl Ether                               | D                    | D                     |
| Dibutyl Ether                                | D                    | D                     |
| Dibutyl Phthalate                            | D                    | D                     |
| Dibutyl Sebacate                             | D                    | D                     |
| Dichloroacetic Acid                          | D                    | D                     |
| 1,2-Dichlorobenzene (o-Dichlorobenzene)      | D                    | D                     |
| 1,4-Dichlorobenzene (p-Dichlorobenzene)      | D                    | D                     |
| Dichloroethane                               | D                    | D                     |
| Dichloromethane (Methylene Dichloride)       | D                    | D                     |
| Diesel Fuel                                  | B                    | D                     |
| Diesel Fuel (2D, 3D, 4D, 5D)                 | B                    | D                     |
| Diethanolamine                               | C                    | D                     |
| Diethyl Ether                                | D                    | D                     |
| Diethyl Ketone                               | D                    | D                     |
| Diethylamine                                 | B                    | D                     |
| Diethylene Dioxide                           | D                    | D                     |
| Diethylene Glycol                            | C                    | D                     |
| Diethylene Glycol Ethyl Ether                | A                    | na                    |
| Diethylene Oxide                             | D                    | D                     |
| Diglycol                                     | C                    | D                     |
| 1,3-Dihydroxybenzene                         | C                    | D                     |
| Diisobutyl Ketone (2,6-Dimethylheptan-4-one) | D                    | D                     |
| Dimethyl Acetamide                           | A                    | na                    |
| Dimethyl Benzene                             | D                    | D                     |
| Dimethyl Ether                               | D                    | D                     |
| Dimethyl Formamide                           | D                    | D                     |
| Dimethyl Sulfoxide (DMSO)                    | C                    | D                     |
| Dimethylamine                                | C                    | D                     |
| Dimethylaniline                              | D                    | D                     |
| Dimethylformamide (DMF)                      | D                    | D                     |
| Diocetyl Sebacate                            | D                    | D                     |
| Dioxane (1,4-Dioxane)                        | D                    | D                     |

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|--|----------------------|-----------------------|--|----------------------|-----------------------|
| Diphenyl Ether                                 | D                    | D                     | Ethylene Oxide Gas (EtO), dry 3%         | A                    | A                     |
| Diphenyl Oxide                                 | D                    | D                     | Ethylenediamine (Ethane-1,2-diamine)     | D                    | D                     |
| Dipropylene Glycol                             | A                    | na                    | Fatty Acids                              | A                    | na                    |
| Disodium Tetraborate                           | C                    | D                     | Ferric Chloride                          | B                    | D                     |
| Disulfide                                      | D                    | D                     | Ferric Nitrate                           | A                    | na                    |
| Eau de Javelle (Javel Water)                   | D                    | D                     | Ferric Sulfate                           | B                    | D                     |
| Epoxy Adhesives                                | B                    | na                    | Ferrous Chloride, 10%                    | A                    | na                    |
| Essential Oils                                 | C                    | D                     | Ferrous Chloride, aqueous 10%            | A                    | na                    |
| Esters   | D                    | D                     | Ferrous Sulfate                          | A                    | na                    |
| Ethanal (Acetaldehyde)                         | C                    | D                     | Fertilizer                               | C                    | D                     |
| Ethane Diacid                                  | D                    | D                     | Fixing Baths                             | D                    | D                     |
| Ethanol (Ethyl Alcohol)                        | D                    | D                     | Fluorides                                | D                    | D                     |
| Ethanolamine                                   | C                    | D                     | Fluorohydric Acid                        | D                    | D                     |
| Ether  | D                    | D                     | Fluorine Gas                             | D                    | D                     |
| Ethyl Acetate                                  | D                    | D                     | Fluoroacetic Acid                        | D                    | D                     |
| Ethyl Acrylate                                 | D                    | D                     | Fluosilicic Acid (Hydrofluosilicic Acid) | B                    | D                     |
| Ethyl Alcohol (Ethanol), over 30%              | D                    | D                     | Formaldehyde, aqueous, 10% (Methanal)    | A                    | B                     |
| Ethyl Alcohol (Ethanol), 15-30%                | C                    | D                     | Formaldehyde, aqueous, 40% (Methanal)    | B                    | C                     |
| Ethyl Alcohol (Ethanol), to 15%                | A                    | D                     | Formaldehyde, aqueous, 100% (Methanal)   | D                    | D                     |
| Ethyl Benzene                                  | D                    | D                     | Formalin (Formaldehyde)                  | D                    | D                     |
| Ethyl Benzoate                                 | D                    | D                     | Formalin, 10% (Formaldehyde)             | A                    | B                     |
| Ethyl Bromide                                  | D                    | D                     | Formamide                                | D                    | D                     |
| Ethyl Butyrate                                 | D                    | D                     | Formic Acid, 98-100%                     | D                    | D                     |
| Ethyl Chloride                                 | D                    | D                     | Formic Acid, 10%                         | B                    | D                     |
| Ethyl Ether                                    | D                    | D                     | Formic Acid, 3%                          | B                    | D                     |
| Ethyl Lactate                                  | C                    | D                     | Formic Acid Amide                        | D                    | D                     |
| Ethyl Methyl Ketone                            | D                    | D                     | Freon TF                                 | B                    | na                    |
| Ethylbenzene                                   | D                    | D                     | Fruit Juice                              | A                    | na                    |
| Ethylene Bromide                               | D                    | D                     | Fuel Oil #1                              | A                    | D                     |
| Ethylene Dibromide                             | D                    | D                     | Fuel Oil #2                              | B                    | D                     |
| Ethylene Chloride                              | D                    | D                     | Fuels with Benzene                       | D                    | D                     |
| Ethylene Chlorohydrine (Ethylene Chlorohydrin) | D                    | D                     | Furfural                                 | D                    | D                     |
| Ethylene Glycol, aqueous (Ethane-1,2-diol)     | A                    | A                     | Furfural Water                           | D                    | D                     |
| Ethylene Glycol Ethyl Ether                    | D                    | D                     | Furfuryl Aldehyde                        | D                    | D                     |
| Ethylene Glycol Methyl Ether                   | A                    | na                    | Gallic Acid, 5%                          | A                    | na                    |
| Ethylene Methyl Ketone                         | D                    | D                     | Gasoline, aromatic                       | D                    | D                     |
| Ethylene Oxide Gas (EtO)                       | D                    | D                     | Gasoline, high test (high octane)        | D                    | D                     |

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| <b>Chemical</b>                | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|--------------------------------|----------------------|-----------------------|
| Gasoline, leaded               | D                    | D                     |
| Gasoline, unleaded             | D                    | D                     |
| Gelatin                        | C                    | D                     |
| Glauber's Salt                 | A                    | na                    |
| Glucose                        | A                    | na                    |
| Glue                           | B                    | D                     |
| Glutaraldehyde                 | B                    | na                    |
| Glycerine (Glycerin, Glycerol) | A                    | A                     |
| Glycine                        | C                    | D                     |
| Glycocoll                      | C                    | D                     |
| Glycol                         | A                    | D                     |
| Glycolic Acid                  | C                    | D                     |
| Grape Sugar                    | A                    | na                    |
| Grease and Oil                 | A                    | na                    |
| Gypsum                         | D                    | D                     |
| Heating Oil                    | C                    | D                     |
| Heptane                        | C                    | D                     |
| Hexadecanol                    | A                    | na                    |
| Hexafluorosilicic Acid         | C                    | D                     |
| Hexane                         | C                    | C                     |
| Hexane Diacid                  | D                    | D                     |
| Hexanoic Acid                  | A                    | na                    |
| Hexanol                        | A                    | na                    |
| Hexyl Alcohol (1-Hexanol)      | C                    | D                     |
| Honey                          | A                    | na                    |
| Hydraulic Brake Fluid          | D                    | D                     |
| Hydrazine Hydrate              | C                    | D                     |
| Hydrobromic Acid, 69%          | D                    | D                     |
| Hydrocarbons, aliphatic        | D                    | D                     |
| Hydrocarbons, aromatic         | D                    | D                     |
| Hydrocarbons, halogenated      | D                    | D                     |
| Hydrochloric Acid, 35%         | C                    | D                     |
| Hydrochloric Acid, 25%         | C                    | D                     |
| Hydrochloric Acid, 20%         | C                    | D                     |
| Hydrochloric Acid, 10%         | C                    | D                     |
| Hydrochloric Acid, 5%          | A                    | D                     |
| Hydrofluoric Acid, 70%         | D                    | D                     |

| <b>Chemical</b>                       | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|---------------------------------------|----------------------|-----------------------|
| Hydrofluoric Acid, 48%                | C                    | D                     |
| Hydrofluoric Acid, 40%                | C                    | D                     |
| Hydrofluoric Acid, to 20%             | A                    | D                     |
| Hydrogen Peroxide, 90%                | D                    | D                     |
| Hydrogen Peroxide, 40%                | C                    | D                     |
| Hydrogen Peroxide, 35%                | C                    | D                     |
| Hydrogen Peroxide, 30%                | C                    | D                     |
| Hydrogen Peroxide, 3%                 | A                    | na                    |
| Hydrogen Sulfide, aqueous             | A                    | D                     |
| Hydrogen Sulfide, gas                 | A                    | D                     |
| Hydroquinone                          | A                    | na                    |
| Hydrosulfide                          | D                    | D                     |
| Hydroxyacetic Acid                    | C                    | D                     |
| Hydroxybenzoic Acid                   | A                    | na                    |
| Hypochlorite, aqueous                 | A                    | na                    |
| Igepal Detergent, 10%                 | A                    | na                    |
| Iodine                                | A                    | D                     |
| Iodine Solutions                      | A                    | D                     |
| Iodine-Potassium Iodide Solution      | D                    | D                     |
| Iodine Tincture, 5%                   | D                    | D                     |
| Iron Perchloride                      | D                    | D                     |
| Isobutanol (Isobutyl Alcohol)         | C                    | D                     |
| Isobutyl Acetate                      | D                    | D                     |
| Isobutyl Alcohol                      | C                    | D                     |
| Isooctane                             | C                    | D                     |
| Isopropanol (2-Propanol, Propan-2-ol) | B                    | D                     |
| Isopropyl Acetate                     | D                    | D                     |
| Isopropyl Alcohol                     | A                    | D                     |
| Isopropyl Alcohol, 100%               | A                    | D                     |
| Isopropyl Alcohol, to 50%             | A                    | D                     |
| Isopropyl Benzene                     | D                    | D                     |
| Isopropyl Ether                       | C                    | D                     |
| Isovaleron (Diisobutyl Ketone)        | D                    | D                     |
| Javelle Water (Eau de Javelle)        | D                    | D                     |
| Jet Fuel                              | B                    | na                    |
| Kerosene                              | A                    | C                     |
| Ketones                               | D                    | D                     |

**Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)**

**A = Excellent**

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| <b>Chemical</b>                                | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|--|----------------------|-----------------------|
| Lacquer Thinner                                | D                    | D                     |
| Lactic Acid, 85%                               | B                    | C                     |
| Lactic Acid, 3%                                | A                    | A                     |
| Lactic Acid Butyl Ester                        | D                    | D                     |
| Lanoline                                       | A                    | na                    |
| Lead Acetate                                   | B                    | D                     |
| Lead Sugar or Sugar of Lead (Plumbous Acetate) | C                    | D                     |
| Lead Tetraethyl                                | D                    | D                     |
| Lime, agricultural (Calcium Carbonate)         | A                    | na                    |
| Lime, burnt (Calcium Oxide)                    | A                    | na                    |
| Linseed Oil                                    | A                    | na                    |
| Liquid Dish Soap, 10%                          | A                    | na                    |
| Lubricating Oils                               | A                    | na                    |
| Lugol Solution                                 | A                    | na                    |
| Machinery Oil                                  | C                    | D                     |
| Magnesium Carbonate                            | A                    | na                    |
| Magnesium Chloride, 10%                        | A                    | D                     |
| Magnesium Hydroxide, 10%                       | A                    | D                     |
| Magnesium Nitrate                              | B                    | D                     |
| Magnesium Oxide                                | A                    | na                    |
| Magnesium Sulfate                              | C                    | D                     |
| Maleic Acid                                    | C                    | D                     |
| Manganese Sulfate                              | A                    | na                    |
| Marble Lime Hydrate                            | D                    | D                     |
| Medicinal Paraffin (Mineral Oil)               | A                    | na                    |
| Mercuric Chloride, aqueous                     | A                    | A                     |
| Mercury  | A                    | A                     |
| Mercury Chloride, 10%                          | A                    | B                     |
| Metal Carbonates                               | B                    | na                    |
| Metal Chlorides                                | B                    | na                    |
| Metal Sulfates                                 | B                    | na                    |
| Methane Gas                                    | A                    | na                    |
| Menthol  | B                    | D                     |
| Mercuric Chloride (Sublimate)                  | A                    | na                    |
| Mercuric Cyanide                               | C                    | D                     |
| Mercuric Nitrate                               | A                    | na                    |
| Mercury  | A                    | na                    |

| <b>Chemical</b>                        | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|--|----------------------|-----------------------|
| Methacrylic Ester                      | D                    | D                     |
| Methoxyethanol                         | A                    | na                    |
| Methoxybenzene                         | D                    | D                     |
| Methoxybutanol                         | D                    | D                     |
| Methoxyethyl Oleate                    | A                    | na                    |
| Methyl Acetate                         | D                    | D                     |
| Methyl Alcohol (Methanol), 100%        | C                    | D                     |
| Methyl Alcohol (Methanol), 15%         | C                    | D                     |
| Methyl Amine                           | A                    | na                    |
| Methyl Benzene                         | D                    | D                     |
| Methyl Bromide                         | D                    | D                     |
| Methyl Butyl Ether                     | D                    | D                     |
| Methyl Butyl Ketone                    | D                    | D                     |
| Methyl Cellosolve                      | A                    | na                    |
| Methyl Chloride                        | D                    | D                     |
| Methyl Cyanide                         | D                    | D                     |
| Methyl Cyclohexanol                    | D                    | D                     |
| Methyl Ether                           | D                    | D                     |
| Methyl Ethyl Ether                     | D                    | D                     |
| Methyl Ethyl Ketone (MEK)              | D                    | D                     |
| Methyl Formate (Methyl Methanoate)     | D                    | D                     |
| Methyl Glycol                          | A                    | na                    |
| Methyl Isobutyl Ketone (MIBK)          | D                    | D                     |
| Methyl Isopropyl Ketone                | D                    | D                     |
| Methyl Methacrylate                    | D                    | D                     |
| Methyl Naphthalene                     | D                    | D                     |
| Methyl Pentanone                       | D                    | D                     |
| Methyl Phenyl Ketone                   | D                    | D                     |
| Methyl Propyl Ketone                   | D                    | D                     |
| Methyl Salicylate (Wintergreen Oil)    | D                    | D                     |
| Methylamine                            | D                    | D                     |
| Methylated Spirits                     | D                    | D                     |
| Methylene Chloride (Dichloromethane)   | D                    | D                     |
| Methylene Dichloride (Dichloromethane) | D                    | D                     |
| Methyl-t-butyl Ether                   | B                    | na                    |
| Milk                                   | A                    | na                    |
| Milk of Lime (Calcium Hydrate)         | A                    | na                    |

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| <b>Chemical</b>                         | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|---|----------------------|-----------------------|
| Mineral Oil                             | A                    | A                     |
| Mineral Spirits (Turpentine Substitute) | B                    | D                     |
| Monobromonaphthalene                    | A                    | na                    |
| Monochloroacetic Acid                   | D                    | D                     |
| Montan Wax                              | C                    | D                     |
| Morpholine                              | D                    | D                     |
| Motor Oil (Lignite Wax, OP Wax)         | B                    | na                    |
| Nail Polish                             | D                    | D                     |
| Nail Polish Remover                     | D                    | D                     |
| Naphtha                                 | D                    | D                     |
| Natural Gas                             | A                    | na                    |
| Nickel Chloride                         | A                    | na                    |
| Nickel Sulfate, aqueous                 | A                    | na                    |
| Nitric Acid, over 70%                   | D                    | D                     |
| Nitric Acid, 70%                        | D                    | D                     |
| Nitric Acid, 50%                        | C                    | D                     |
| Nitric Acid, 25%                        | C                    | C                     |
| Nitric Acid, 20%                        | A                    | na                    |
| Nitric Acid, up to 10%                  | A                    | C                     |
| Nitric Oxide, gas                       | A                    | na                    |
| Nitrioltriethanol                       | A                    | na                    |
| Nitrobenzene                            | D                    | D                     |
| Nitrocellulose                          | D                    | D                     |
| Nitrogen Dioxide Gas                    | B                    | na                    |
| Nitrogen Monoxide Gas                   | B                    | na                    |
| Nitromethane                            | D                    | D                     |
| Nitrous Acid                            | C                    | D                     |
| Nitrous Oxide                           | D                    | D                     |
| Nonyl Alcohol                           | C                    | D                     |
| Nutmeg Oil                              | B                    | na                    |
| Octadecan Acid                          | A                    | na                    |
| Octane (n-Octane)                       | C                    | D                     |
| Oils: Animal Oils                       | A                    | na                    |
| Oils: Anise Seed Oil                    | B                    | na                    |
| Oils: Bay Leaf Oil                      | B                    | na                    |
| Oils: Camphoric Oil                     | C                    | D                     |
| Oils: Castor Oil                        | A                    | na                    |

| <b>Chemical</b>                            | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|--|----------------------|-----------------------|
| Oils: Cinnamon Oil                         | D                    | D                     |
| Oils: Clove Oil                            | D                    | D                     |
| Oils: Cod Liver Oil (Oleum Jecoris Aselli) | A                    | na                    |
| Oils: Cooking Oil                          | B                    | na                    |
| Oils: Corn Oil                             | A                    | na                    |
| Oils: Cottonseed Oil                       | A                    | na                    |
| Oils: Essential Oils                       | C                    | D                     |
| Oils: Heating Oils                         | C                    | D                     |
| Oils: Linseed Oil                          | A                    | na                    |
| Oils: Lubricating Oils                     | A                    | na                    |
| Oils: Machinery Oil                        | C                    | D                     |
| Oils: Mineral Oil                          | A                    | D                     |
| Oils: Nutmeg Oil                           | B                    | na                    |
| Oils: Olive Oil                            | A                    | na                    |
| Oils: Silicone Oils                        | B                    | D                     |
| Oils: Vegetable Oils                       | C                    | D                     |
| Oils: Wintergreen Oil (Methyl Salicylate)  | D                    | D                     |
| Oleic Acid                                 | C                    | D                     |
| Oleum (Fuming Sulfuric Acid)               | D                    | D                     |
| Oleum Jecoris Aselli (Cod Liver Oil)       | A                    | na                    |
| Olive Oil                                  | A                    | na                    |
| Organic Solvents                           | D                    | D                     |
| Oxalic Acid                                | B                    | B                     |
| Oxalic Acid, aqueous 10%                   | A                    | A                     |
| Oxidizing Agents, strong                   | D                    | D                     |
| Oxirane                                    | D                    | D                     |
| Oxolane (Tetrahydrofuran, THF)             | D                    | D                     |
| Oxydiethanol                               | C                    | D                     |
| Oxygen Gas                                 | A                    | na                    |
| Ozokerite (Ozocerite, Earthwax, Earth Wax) | C                    | D                     |
| Ozone Gas                                  | A                    | C                     |
| Paint Removers                             | D                    | D                     |
| Paint Thinners                             | D                    | D                     |
| Palmitic Acid                              | D                    | D                     |
| Paraffins                                  | A                    | na                    |
| Peat Water                                 | A                    | na                    |
| Pentanol (1-Pentanol)                      | C                    | D                     |

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|----------------------------------|----------------------|-----------------------|
| 3-Pentanone                      | D                    | D                     |
| Pentyl Acetate                   | A                    | na                    |
| Perchloric Acid                  | C                    | D                     |
| Perchloroethylene                | C                    | D                     |
| Perfume                          | C                    | D                     |
| Petroleum Ether                  | B                    | D                     |
| Phenols (Carbolic Acid)          | D                    | D                     |
| Phenyl Ether                     | D                    | D                     |
| Phenylamine                      | C                    | D                     |
| 1-Phenylethanone (Acetophenone)  | D                    | D                     |
| Phenylmethanol (Benzyl Alcohol)  | D                    | D                     |
| Phosphoric Acid, 95%             | D                    | D                     |
| Phosphoric Acid, 85%             | D                    | D                     |
| Phosphoric Acid, 50%             | A                    | na                    |
| Phosphoric Acid, 25%             | A                    | na                    |
| Phosphoric Acid, 10%             | A                    | na                    |
| Phosphoric Acid, 5%              | A                    | C                     |
| Phosphorus                       | D                    | D                     |
| Phosphorous Chloride             | D                    | D                     |
| Phosphorus Trichloride           | D                    | D                     |
| Photographic Baths               | B                    | na                    |
| Phthalate Ester                  | C                    | D                     |
| Phthalates                       | D                    | D                     |
| Phthalic Acid                    | A                    | na                    |
| Pickling Solution                | A                    | na                    |
| Picric Acid, 1% aqueous          | B                    | D                     |
| Pine Oil                         | A                    | na                    |
| Plumbous Acetate (Sugar of Lead) | C                    | D                     |
| Polishing Compounds              | B                    | na                    |
| Polyvinyl Acetate                | D                    | D                     |
| Potassium Acetate                | C                    | D                     |
| Potassium Aluminum Sulfate       | D                    | D                     |
| Potassium Bicarbonate            | A                    | na                    |
| Potassium Bichromate             | C                    | D                     |
| Potassium Bromide                | A                    | na                    |
| Potassium Carbonate, 10%         | A                    | na                    |
| Potassium Chlorate               | A                    | na                    |

| <b>Chemical</b>                                 | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|---|----------------------|-----------------------|
| Potassium Chloride, aqueous up to 30%           | A                    | A                     |
| Potassium Chromate                              | A                    | na                    |
| Potassium Cyanide                               | B                    | D                     |
| Potassium Dichromate                            | B                    | D                     |
| Potassium Ferricyanide                          | C                    | D                     |
| Potassium Ferrocyanide, aqueous up to 30%       | B                    | D                     |
| Potassium Ferrocyanide Trihydrate               | C                    | D                     |
| Potassium Ferricyanate (Red Prussiate)          | C                    | D                     |
| Potassium Hydroxide (Caustic Potash), 50%       | B                    | D                     |
| Potassium Hydroxide (Caustic Potash), 25%       | A                    | B                     |
| Potassium Hydroxide (Caustic Potash), 30%       | A                    | D                     |
| Potassium Hypochlorite                          | D                    | D                     |
| Potassium Iodide                                | A                    | na                    |
| Potassium Nitrate, 10%                          | A                    | na                    |
| Potassium Perchlorate                           | A                    | na                    |
| Potassium Permanganate                          | B                    | B                     |
| Potassium Persulfate                            | C                    | D                     |
| Potassium Pyrophosphate (Potassium Diphosphate) | A                    | na                    |
| Potassium Sulfite                               | B                    | na                    |
| Potassium Sulfate, 10%                          | A                    | na                    |
| Power Steering Fluid                            | B                    | na                    |
| Propane Gas                                     | B                    | D                     |
| Propylene                                       | B                    | na                    |
| Propanoic Acid                                  | C                    | D                     |
| Propanol  | B                    | D                     |
| 2-Propanol (Isopropanol, Propan-2-ol)           | B                    | D                     |
| Propyl Alcohol                                  | B                    | C                     |
| Propylene Glycol (1,2-Propanediol)              | B                    | C                     |
| Propylene Oxide                                 | C                    | D                     |
| Pyridine  | D                    | D                     |
| Red Prussiate (Potassium Ferricyanate)          | C                    | D                     |
| Resorcinol                                      | C                    | D                     |
| Roussin's Red Salt                              | C                    | D                     |
| Salicylaldehyde                                 | B                    | na                    |
| Salicylic Acid                                  | B                    | D                     |
| Salmiac (Ammonium Chloride)                     | B                    | D                     |
| Salt Solutions, metallic                        | A                    | na                    |

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|---|----------------------|-----------------------|
| Sea Water                               | A                    | na                    |
| Selenite                                | D                    | D                     |
| Silicic Acid                            | C                    | D                     |
| Silicone Oils                           | B                    | D                     |
| Silicon Tetrachloride                   | D                    | D                     |
| Silver Acetate                          | C                    | C                     |
| Silver Bromide                          | A                    | na                    |
| Silver Cyanide                          | C                    | D                     |
| Silver Nitrate                          | A                    | A                     |
| Soap, Liquid Dish Soap 10%              | A                    | na                    |
| Soap Solutions                          | A                    | na                    |
| Soaps                                   | A                    | na                    |
| Soda Lye (Sodium Hydroxide), 1%         | A                    | A                     |
| Soda Lye (Sodium Hydroxide), 10%        | A                    | A                     |
| Soda Lye (Sodium Hydroxide), 25%        | A                    | na                    |
| Soda Lye (Sodium Hydroxide), ≥50%       | A                    | D                     |
| Sodium Acetate, aqueous up to 60%       | B                    | D                     |
| Sodium Benzoate                         | A                    | na                    |
| Sodium Bicarbonate, aqueous up to 50%   | A                    | na                    |
| Sodium Bisulfate, 10%                   | A                    | na                    |
| Sodium Bisulfite                        | A                    | na                    |
| Sodium Borate (Borax)                   | A                    | na                    |
| Sodium Bromide                          | A                    | na                    |
| Sodium Carbonate (Soda Ash)             | B                    | D                     |
| Sodium Chlorate                         | A                    | na                    |
| Sodium Chloride (Table Salt), 25%       | A                    | A                     |
| Sodium Chlorite                         | A                    | na                    |
| Sodium Cyanide                          | B                    | D                     |
| Sodium Dichromate                       | A                    | C                     |
| Sodium Dithionite (Sodium Hydrosulfite) | A                    | na                    |
| Sodium Fluoride                         | A                    | A                     |
| Sodium Hydrogen Carbonate               | A                    | na                    |
| Sodium Hydrogen Sulfate                 | C                    | D                     |
| Sodium Hydrogen Sulfite                 | D                    | D                     |
| Sodium Hydroxide (Caustic Soda), 1%     | A                    | A                     |
| Sodium Hydroxide (Caustic Soda), 10%    | A                    | A                     |
| Sodium Hydroxide (Caustic Soda), 25%    | A                    | na                    |

| <b>Chemical</b>                            | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|--|----------------------|-----------------------|
| Sodium Hydroxide (Caustic Soda), ≥50%      | A                    | D                     |
| Sodium Hypochlorite, 15% (Chlorine Bleach) | A                    | A                     |
| Sodium Hyposulfite                         | A                    | na                    |
| Sodium Nitrate, aqueous up to 50%          | A                    | na                    |
| Sodium Nitrite                             | A                    | na                    |
| Sodium Perborate Tetrahydrate              | D                    | D                     |
| Sodium Perchlorate                         | A                    | na                    |
| Sodium Peroxide                            | C                    | D                     |
| Sodium Peroxodisulfate                     | A                    | na                    |
| Sodium Persulfate                          | A                    | na                    |
| Sodium Phosphate, 10%                      | A                    | D                     |
| Sodium Silicate (Water Glass)              | A                    | na                    |
| Sodium Sulfate                             | A                    | na                    |
| Sodium Sulfate Decahydrate                 | A                    | na                    |
| Sodium Sulfide                             | A                    | na                    |
| Sodium Sulfite                             | A                    | na                    |
| Sodium Superoxide                          | C                    | D                     |
| Sodium Tetraborate Decahydrate             | C                    | D                     |
| Sodium Thiosulfate                         | B                    | na                    |
| Starch                                     | A                    | na                    |
| Stearic Acid                               | A                    | na                    |
| Stoddard Solvent                           | A                    | na                    |
| Styrene                                    | D                    | D                     |
| Styrolene                                  | D                    | D                     |
| Sublimate (Mercuric Chloride)              | A                    | na                    |
| Succinic Acid                              | D                    | D                     |
| Sulfoxides                                 | D                    | D                     |
| Sulphur Dioxide, liquid                    | D                    | D                     |
| Sulfur Dioxide Gas, dry                    | B                    | D                     |
| Sulfur Dioxide Gas, wet                    | D                    | D                     |
| Sulfur Salts                               | B                    | na                    |
| Sulfuric Acid, 98%                         | D                    | D                     |
| Sulfuric Acid, 60%                         | D                    | D                     |
| Sulfuric Acid, 30%                         | A                    | B                     |
| Sulfuric Acid, 25%                         | A                    | B                     |
| Sulfuric Acid, 20%                         | A                    | B                     |
| Sulfuric Acid, 6%                          | A                    | A                     |

**Key to General Chemical Resistance – All data is based on ambient or room temperature conditions, about 64°F (18°C) to 73°F (23°C)**  
**A = Excellent** **C = Fair - Moderate Effect, not recommended**  
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# Acrylic (PMMA) Chemical Compatibility Chart

ver 20-Oct-2022

| <b>Chemical</b>                | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|--------------------------------|----------------------|-----------------------|
| Sulfuric Acid, 2%              | A                    | A                     |
| Sulfurous Acid, concentrated   | C                    | D                     |
| Sulfurous Acid, to 10%         | A                    | na                    |
| Sulfuryl Chloride              | A                    | na                    |
| Surgical Spirit                | D                    | D                     |
| Tallow                         | A                    | na                    |
| Tannic Acid                    | D                    | D                     |
| Tannic Acid, 10%               | A                    | D                     |
| Tannins                        | D                    | D                     |
| Tartaric Acid                  | C                    | C                     |
| Tartaric Acid, to 50%          | A                    | C                     |
| Tensides, non-alkaline         | A                    | na                    |
| Tea                            | A                    | na                    |
| Tetrachloroethane              | D                    | D                     |
| Tetrachloroethylene            | D                    | D                     |
| Tetrachloromethane             | D                    | D                     |
| Tetraethyl Lead                | D                    | D                     |
| Tetrahydrofuran (THF, Oxolane) | D                    | D                     |
| Tetrahydronaphthalene          | C                    | D                     |
| Tetralin                       | C                    | D                     |
| Tetramethylene Oxide           | D                    | D                     |
| Thionyl Chloride               | D                    | D                     |
| Tincture of Iodine, 5%         | D                    | D                     |
| Toluene (Toluol)               | D                    | D                     |
| Transformer Oil                | B                    | D                     |
| Transmission Fluid             | B                    | na                    |
| Tributyl Citrate               | C                    | D                     |
| Trichloroacetic Acid           | C                    | D                     |
| Trichlorobenzene               | D                    | D                     |
| Trichloroethane                | D                    | D                     |
| Trichloroethylene              | D                    | D                     |
| Trichloromethane               | D                    | D                     |
| Tricresyl Phosphate            | A                    | na                    |
| Triethanolamine                | A                    | na                    |
| Triethylene Glycol             | B                    | C                     |
| Triethylamine                  | A                    | na                    |
| Trifluorotrichloroethane       | D                    | D                     |

| <b>Chemical</b>                         | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|---|----------------------|-----------------------|
| Triglycerides                           | A                    | na                    |
| Triglycol                               | A                    | na                    |
| 2,2,4-Trimethylpentane                  | C                    | D                     |
| 2,4,6-Trinitrophenol                    | D                    | D                     |
| Tripropylene Glycol                     | C                    | C                     |
| Tris Buffer Solution, pH 11             | A                    | A                     |
| Tris Buffer Solution, pH 7.0            | A                    | A                     |
| Trisodium Phosphate, aqueous up to 95%  | B                    | D                     |
| Turpentine                              | B                    | B                     |
| Turpentine substitute (Mineral Spirits) | C                    | D                     |
| Urea                                    | A                    | A                     |
| Urea, to 20%                            | A                    | A                     |
| Uric Acid                               | C                    | D                     |
| Urine                                   | A                    | na                    |
| Vaseline                                | A                    | na                    |
| Vegetable Oils                          | C                    | D                     |
| Vinegar (Acetic Acid up to 5%)          | A                    | D                     |
| Vinyl Acetate                           | D                    | D                     |
| Vinyl Chloride (Chloroethylene)         | D                    | D                     |
| Vinyl Cyanide                           | D                    | D                     |
| Vinylbenzene                            | D                    | D                     |
| Vinylidene Chloride                     | D                    | D                     |
| Washing Agents                          | A                    | na                    |
| Water, deionized                        | A                    | na                    |
| Water, demineralized                    | A                    | na                    |
| Water, distilled                        | A                    | na                    |
| Water, fresh                            | A                    | na                    |
| Water, mineral water                    | A                    | na                    |
| Water, salt                             | A                    | na                    |
| Water, sea                              | A                    | na                    |
| Water Glass (Sodium Silicate)           | A                    | na                    |
| Wax Polish                              | B                    | na                    |
| Whiskey                                 | A                    | na                    |
| Whitewash                               | B                    | na                    |
| Wine                                    | A                    | na                    |
| Wool Fat                                | A                    | na                    |
| Wool Wax                                | A                    | na                    |

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| <b>Chemical</b>  | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> | <b>Chemical</b>                  | <b>20°C<br/>68°F</b> | <b>50°C<br/>122°F</b> |
|------------------|----------------------|-----------------------|----------------------------------|----------------------|-----------------------|
| Xylene (Xylol)   | D                    | D                     | Zinc Chloride, aqueous up to 10% | B                    | B                     |
| Yeasts           | A                    | na                    | Zinc Nitrate                     | A                    | na                    |
| Yellow Prussiate | C                    | D                     | Zinc Stearate                    | A                    | na                    |
| Zinc Carbonate   | A                    | na                    | Zinc Sulfate, 10%                | B                    | C                     |

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