

## Chemical Resistance Properties of Tubing

**IMPORTANT:** It is the user's responsibility to insure the suitability and safety of tubing for all intended uses. Laboratory, field or clinical tests must be conducted in accordance with applicable requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

All ratings are based on room temperature (21°C; 73°F)

1 Excellent, 2 Good, 3 Fair, 4 Not Recommended      Environment, % Conc.      w-Water    alc-Alcohol

|  | Tygon LFL | Tygon ST<br>R-3603/R-3607 | Pharmed<br>Ismaprene | Tygon HC<br>F-4040-A | Tygon MHLL | Tygon MHSL | Tygon SI<br>Silikon 3350 | Norprene<br>A-60-G | Fluran HCA<br>F-5500-A | CHEM-SURE | STA-PURE |
|--|-----------|---------------------------|----------------------|----------------------|------------|------------|--------------------------|--------------------|------------------------|-----------|----------|
|  |           |                           |                      |                      |            |            | Platin                   |                    |                        |           |          |
| Acetaldehyde                           | 4         | 4                         | 4                    | 4                    | 3          | 4          | 3                        | 4                  | 4                      | 1         | 2        |
| Acetamide, 67% in w                    | 4         | 4                         | 2                    | 4                    | 1          | 2          | 1                        | 2                  | 4                      | -         | 2        |
| Acetate Solvents                       | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                        | 2                  | 4                      | -         | -        |
| Acetic Acid, 10% in w                  | 1         | 1                         | 1                    | 1                    | 1          | 2          | 1                        | 1                  | 4                      | 1         | 2        |
| Acetic Acid, 50-60% in w               | 1         | 1                         | 2                    | 1                    | 1          | 1          | 1                        | 2                  | 4                      | 1         | 2        |
| Acetic Acid, Glacial, 100%             | 4         | 4                         | 2                    | 4                    | 1          | 2          | 4                        | 2                  | 4                      | 1         | 2        |
| Acetic Anhydride                       | 4         | 4                         | 1                    | 4                    | 1          | 1          | 1                        | 1                  | 4                      | 1         | 4        |
| Acetone                                | 4         | 4                         | 4                    | 4                    | 2          | 3          | 3                        | 4                  | 4                      | 1         | 4        |
| Acetonitrile                           | 4         | 4                         | 2                    | 4                    | 2          | 2          | 4                        | 2                  | 4                      | -         | -        |
| Acetyl Bromide                         | 4         | 4                         | 3                    | 4                    | 4          | 3          | 4                        | 3                  | 4                      | -         | -        |
| Acetyl Chloride                        | 4         | 4                         | 3                    | 4                    | 4          | 3          | 4                        | 3                  | 4                      | 1         | -        |
| Acetylene Gas                          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | -        |
| Acrylonitrile                          | 4         | 4                         | 2                    | 4                    | 2          | 2          | 4                        | 2                  | 4                      | 1         | 4        |
| Adipic Acid, 100% in alc               | 4         | 4                         | 2                    | 3                    | 4          | 2          | 4                        | 2                  | 4                      | 1         | -        |
| Air                                    | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 1        |
| Alcohols General                       | 4         | 4                         | 1                    | 2                    | 1          | 1          | 2                        | 1                  | 4                      | 1         | -        |
| Aliphatic Hydrocarbons                 | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                        | 4                  | 2                      | -         | -        |
| Allyl Alcohol                          | 4         | 4                         | 3                    | 1                    | 1          | 1          | 4                        | 3                  | 1                      | -         | -        |
| Alum, 5% in w                          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Aluminum Chloride, 53% in w            | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Aluminum Hydroxide, 2% in w            | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Aluminum Sulfate, 50% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | 2        |
| Aluminum Salts                         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | 2        |
| Amines                                 | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                        | 3                  | 4                      | 2         | -        |
| Ammonia Gas                            | 1         | 1                         | 1                    | 1                    | 1          | 1          | 4                        | 1                  | 4                      | 1         | 2        |
| Ammonia, Anhydrous Liquid              | 2         | 2                         | 2                    | 2                    | 2          | 2          | 4                        | 2                  | 4                      | -         | -        |
| Ammonium Acetate, 45% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 4                      | 1         | -        |
| Ammonium Carbonate, 20% in w           | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | -        |
| Ammonium Hydroxide, 5-10% in w         | 1         | 1                         | 1                    | 2                    | 1          | 1          | 4                        | 1                  | 4                      | 1         | 2        |
| Ammonium Hydroxide, 30% in w           | 1         | 1                         | 1                    | 3                    | 1          | 1          | 4                        | 1                  | 4                      | 1         | 2        |
| Ammonium Persulfate, 30% in w          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Ammonium Salts                         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Ammonium Sulfate, 30% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Amyl Acetate                           | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                        | 2                  | 4                      | 2         | 4        |
| Amyl Alcohol                           | 4         | 4                         | 4                    | 1                    | 1          | 1          | 4                        | 4                  | 1                      | 1         | 4        |
| Amyl Chloride                          | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                        | 3                  | 4                      | -         | 4        |
| Aniline                                | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                        | 3                  | 4                      | 1         | 2        |
| Aniline Hydrochloride                  | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                        | 3                  | 4                      | 1         | 4        |
| Antimony Salts                         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Aqua Regia                             | 4         | 4                         | 4                    | 4                    | 1          | 1          | 4                        | 4                  | 4                      | -         | -        |
| Aromatic Hydrocarbons                  | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                        | 4                  | 4                      | -         | 4        |
| Arsenic Acid, 20% in w                 | 1         | 1                         | 3                    | 1                    | 1          | 1          | 3                        | 3                  | 1                      | 1         | -        |
| Arsenic Salts                          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| ASTM Reference No. 1 Oil               | 4         | 4                         | 3                    | 1                    | 4          | 4          | 1                        | 3                  | 1                      | -         | -        |
| ASTM Reference No. 2 Oil               | 4         | 4                         | 4                    | 1                    | 4          | 4          | 2                        | 4                  | 1                      | -         | -        |
| ASTM Reference No. 3 Oil               | 4         | 4                         | 4                    | 1                    | 4          | 4          | 4                        | 4                  | 1                      | -         | -        |
| Barium Carbonate, 1% in w              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Barium Hydroxide, 5% in w              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Beer                                   | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Benzaldehyde                           | 4         | 4                         | 4                    | 4                    | 3          | 3          | 3                        | 4                  | 4                      | 1         | 4        |
| Benzene                                | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                        | 4                  | 4                      | 1         | 4        |
| Benzenesulfonic Acid                   | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                        | 4                  | 4                      | 1         | -        |
| Benzoic Acid                           | 4         | 4                         | 2                    | 3                    | 4          | 4          | 4                        | 2                  | 4                      | 1         | 2        |
| Benzyl Alcohol                         | 4         | 4                         | 1                    | 4                    | 1          | 1          | 1                        | 1                  | 1                      | -         | -        |
| Bleach Liquor, 22% in w                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 4                        | 1                  | 1                      | 1         | -        |
| Borax, 6% in w                         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | 2        |
| Boric Acid, 4% in w                    | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Bromine, Anhydrous Liquid              | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                        | 4                  | 4                      | -         | 4        |
| Butadiene                              | 1         | 1                         | 1                    | 1                    | 2          | 2          | 1                        | 1                  | 1                      | 2         | -        |
| Butane                                 | 1         | 1                         | 1                    | 1                    | 2          | 2          | 1                        | 1                  | 1                      | 2         | 4        |
| Butyl Acetate                          | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                        | 2                  | 4                      | 2         | 4        |
| Butyl Alcohol                          | 4         | 4                         | 4                    | 1                    | 1          | 1          | 4                        | 4                  | 1                      | 1         | 2        |
| Butyric Acid                           | 4         | 4                         | 2                    | 3                    | 4          | 4          | 4                        | 2                  | 4                      | 1         | -        |
| Calcium Carbonate, 25% in dilute acids | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | -        |
| Calcium Chloride, 30% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | 2        |
| Calcium Hydroxide, 10% in glycerol     | 1         | 1                         | 1                    | 4                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Calcium Hypochlorite, 20% in w         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 4                        | 1                  | 1                      | 1         | 2        |
| Calcium Nitrate, 55% in w              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Calcium Salts                          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | -         | 2        |
| Calcium Sulfate, 0.2% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | -        |
| Carbon Dioxide, Wet/Dry                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Carbon Disulfide                       | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                        | 4                  | 2                      | -         | -        |
| Carbon Monoxide                        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Carbon Tetrachloride                   | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                        | 4                  | 4                      | 2         | 4        |
| Carbonic Acid                          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                        | 1                  | 1                      | 1         | 2        |
| Castor Oil                             | 4         | 4                         | 3                    | 1                    | 2          | 2          | 1                        | 3                  | 1                      | 1         | 2        |
| Cellosolve                             | 4         | 4                         | 3                    | 3                    | 4          | 4          | 4                        | 3                  | 4                      | -         | -        |
| Cellosolve Acetate                     | 4         | 4                         | 3                    | 3                    | 4          | 4          | 4                        | 3                  | 4                      | -         | -        |
| Chlorine, Dry Gas                      | 1         | 1                         | 3                    | 1                    | 3          | 3          | 4                        | 3                  | 1                      | -         | 4        |

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|--------------------------------|-----------|---------------------------|----------------------|----------------------|------------|------------|------------------------------------|--------------------|------------------------|-----------|----------|
| Chlorine, Wet Gas              | 2         | 2                         | 4                    | 1                    | 3          | 3          | 4                                  | 4                  | 1                      | -         | 4        |
| Chloroacetic Acid, 20% in w    | 1         | 1                         | 2                    | 4                    | 1          | 1          | 1                                  | 2                  | 4                      | 2         | -        |
| Chlorobenzene, Mono, Di, Tri   | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | 1         | 4        |
| Chloroform                     | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | 4        |
| Chlorosulfonic Acid            | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | 1         | 4        |
| Chromic Acid, 10-20% in w      | 2         | 2                         | 1                    | 3                    | 1          | 1          | 4                                  | 1                  | 1                      | -         | 4        |
| Chromic Acid, 50% in w         | 3         | 3                         | 3                    | 4                    | 2          | 2          | 4                                  | 3                  | 1                      | -         | 4        |
| Citric Acid, 10-20% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Coconut Oil                    | 4         | 4                         | 3                    | 1                    | 2          | 2          | 1                                  | 3                  | 1                      | 1         | 2        |
| Corn Syrup                     | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Cottonseed Oil                 | 4         | 4                         | 3                    | 1                    | 2          | 3          | 1                                  | 3                  | 1                      | 1         | -        |
| Cresol (m, o, or p)            | 4         | 4                         | 4                    | 3                    | 1          | 1          | 2                                  | 4                  | 1                      | 1         | 4        |
| Cresylic Acid                  | 4         | 4                         | 2                    | 3                    | 4          | 4          | 4                                  | 2                  | 4                      | -         | -        |
| Cupric Chloride, 40% in w      | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Cupric Nitrate, 70% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Cupric Sulfate, 13% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Cyclohexane                    | 4         | 4                         | 4                    | 3                    | 4          | 4          | 4                                  | 4                  | 1                      | 2         | 4        |
| Cyclohexanone                  | 4         | 4                         | 4                    | 4                    | 3          | 3          | 4                                  | 4                  | 4                      | -         | -        |
| Detergent Solutions            | 1         | 1                         | 2                    | 1                    | 1          | 1          | 1                                  | 2                  | 1                      | 1         | 2        |
| Dibutyl Phthalate              | 3         | 3                         | 1                    | 3                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Diesel Fuel                    | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 1         | -        |
| Diethylamine                   | 1         | 1                         | 1                    | 3                    | 1          | 1          | 4                                  | 1                  | 4                      | 2         | 2        |
| Diethylene Glycol              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Dimethylformamide              | 4         | 4                         | 2                    | 4                    | 1          | 1          | 1                                  | 2                  | 4                      | 1         | 2        |
| Dimethylsulfoxide              | 4         | 4                         | 1                    | 4                    | 2          | 2          | 3                                  | 1                  | 4                      | -         | -        |
| Diethyl Phthalate              | 3         | 3                         | 1                    | 3                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Dioxane                        | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | -         | 2        |
| Ether                          | 4         | 4                         | 3                    | 3                    | 4          | 4          | 4                                  | 3                  | 4                      | -         | 2        |
| Ethyl Acetate                  | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                                  | 2                  | 4                      | 1         | 4        |
| Ethyl Alcohol                  | 4         | 4                         | 3                    | 2                    | 1          | 1          | 3                                  | 3                  | 4                      | 1         | 4        |
| Ethyl Benzoate                 | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | -         | -        |
| Ethyl Chloride                 | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | -         | 4        |
| Ethyl Ether                    | 4         | 4                         | 3                    | 3                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | -        |
| Ethylene Bromide               | 4         | 4                         | 4                    | 4                    | 3          | 3          | 1                                  | 4                  | 1                      | -         | -        |
| Ethylene Chlorohydrin          | 4         | 4                         | 1                    | 2                    | 1          | 1          | 2                                  | 1                  | 4                      | -         | 4        |
| Ethylene Dichloride            | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | -         | -        |
| Ethylene Glycol                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Ethylene Oxide                 | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 2         | 4        |
| Fatty Acids                    | 4         | 4                         | 3                    | 2                    | 3          | 3          | 2                                  | 3                  | 1                      | 1         | -        |
| Ferric Chloride, 43% in w      | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Ferric Nitrate, 60% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Ferric Sulfate, 5% in w        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Ferrous Chloride, 40% in w     | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Ferrous Sulfate, 5% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Fluoboric Acid, 48% in w       | 1         | 1                         | 4                    | 4                    | 1          | 1          | 4                                  | 4                  | 1                      | -         | -        |
| Fluorine Gas                   | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 2                      | 4         | -        |
| Fluosilicic Acid, 25% in w     | 1         | 1                         | 3                    | 1                    | 1          | 1          | 3                                  | 3                  | 1                      | -         | -        |
| Formaldehyde, 37% in w         | 4         | 4                         | 4                    | 4                    | 3          | 3          | 3                                  | 4                  | 4                      | 1         | 2        |
| Formic Acid, 25% in w          | 1         | 1                         | 1                    | 3                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Formic Acid, 40-50% in w       | 2         | 2                         | 2                    | 4                    | 1          | 1          | 1                                  | 2                  | 3                      | 1         | 2        |
| Formic Acid, 98% in w          | 2         | 2                         | 2                    | 4                    | 1          | 1          | 1                                  | 2                  | 4                      | 1         | 2        |
| Freon 11                       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 2                      | 4         | -        |
| Freon 12                       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 2                      | 4         | -        |
| Freon 22                       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 2                      | 4         | -        |
| Fruit Juice                    | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Fuel Oil                       | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 1         | 4        |
| Furfural                       | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | 2         | -        |
| Gallic Acid, 17% in acetone    | 4         | 4                         | 2                    | 3                    | 4          | 4          | 4                                  | 2                  | 4                      | -         | -        |
| Gasoline, Automotive           | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 2         | 4        |
| Gelatin                        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Glucose, 50% in w              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Glycerin                       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Glycolic Acid, 70% in w        | 1         | 1                         | 2                    | 1                    | 1          | 1          | 1                                  | 2                  | 4                      | -         | -        |
| Heptane                        | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 2                      | 2         | -        |
| Hexane                         | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 2                      | -         | 4        |
| Hydrazine                      | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 1         | 4        |
| Hydrobromic Acid, 20-50% in w  | 1         | 1                         | 4                    | 1                    | 1          | 1          | 4                                  | 4                  | 1                      | 1         | 4        |
| Hydrobromic Acid, 100% in w    | 1         | 1                         | 4                    | 4                    | 1          | 1          | 4                                  | 4                  | 1                      | 1         | 4        |
| Hydrochloric Acid, 10% in w    | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Hydrochloric Acid, 37% in w    | 1         | 1                         | 2                    | 4                    | 1          | 1          | 4                                  | 2                  | 2                      | 1         | 4        |
| Hydrocyanic Acid               | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 4                      | 1         | 2        |
| Hydrofluoric Acid, 10% in w    | 1         | 1                         | 4                    | 1                    | 1          | 1          | 4                                  | 4                  | 1                      | -         | 2        |
| Hydrofluoric Acid, 25% in w    | 1         | 1                         | 4                    | 4                    | 1          | 1          | 4                                  | 4                  | 1                      | -         | 2        |
| Hydrofluoric Acid, 40-48% in w | 3         | 2                         | 4                    | 4                    | 1          | 1          | 4                                  | 4                  | 1                      | -         | 2        |
| Hydrogen Gas                   | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Hydrogen Peroxide, 3% in w     | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Hydrogen Peroxide, 10% in w    | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Hydrogen Peroxide, 30% in w    | 1         | 1                         | 1                    | 4                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Hydrogen Peroxide, 90% in w    | 4         | 4                         | 2                    | 4                    | 2          | 2          | 3                                  | 2                  | 1                      | 1         | 2        |
| Hydrogen Sulfide               | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Hydroquinone, 7% in w          | 1         | 1                         | 2                    | 1                    | 1          | 1          | 2                                  | 2                  | 1                      | -         | -        |
| Hypochlorous Acid, 25% in w    | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Iodine, 50 ppm in w            | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Isobutyl Alcohol               | 4         | 4                         | 3                    | 1                    | 1          | 1          | 4                                  | 3                  | 1                      | -         | 2        |
| Isooctane                      | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | 4        |
| Isopropyl Acetate              | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                                  | 2                  | 4                      | 2         | -        |
| Isopropyl Alcohol              | 4         | 4                         | 3                    | 1                    | 1          | 1          | 4                                  | 3                  | 1                      | 1         | 2        |

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|---------------------------------------|-----------|---------------------------|----------------------|----------------------|------------|------------|------------------------------------|--------------------|------------------------|-----------|----------|
| Isopropyl Ether                       | 4         | 4                         | 3                    | 3                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | -        |
| Jet Fuel, JP8                         | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 1         | -        |
| Kerosene                              | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 1         | 4        |
| Ketones                               | 4         | 4                         | 4                    | 4                    | 3          | 3          | 4                                  | 4                  | 4                      | -         | 4        |
| Lacquer Solvents                      | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                                  | 2                  | 4                      | 1         | -        |
| Lactic Acid, 3-10% in w               | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 4                      | 1         | 2        |
| Lactic Acid, 85% in w                 | 4         | 4                         | 2                    | 4                    | 1          | 1          | 4                                  | 2                  | 4                      | 1         | 2        |
| Lard, Animal Fat                      | 4         | 4                         | 3                    | 1                    | 2          | 2          | 1                                  | 3                  | 1                      | 1         | 2        |
| Lead Acetate, 35% in w                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 4        |
| Lead Salts                            | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Lemon Oil                             | 4         | 4                         | 4                    | 3                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | -        |
| Limonene-D                            | 4         | 4                         | 4                    | 3                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | -        |
| Linoleic Acid                         | 4         | 4                         | 3                    | 2                    | 3          | 3          | 2                                  | 3                  | 1                      | 1         | -        |
| Linseed Oil                           | 4         | 4                         | 3                    | 1                    | 2          | 2          | 1                                  | 3                  | 1                      | 1         | 2        |
| Lubricating Oils, Petroleum           | 4         | 4                         | 4                    | 1                    | 4          | 4          | 2                                  | 4                  | 1                      | 1         | 4        |
| Magnesium Carbonate, 1% in w          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Magnesium Chloride, 35% in w          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Magnesium Hydroxide, 10% in dil. acid | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Magnesium Nitrate, 50% in w           | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Magnesium Sulfate, 25% in w           | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Maleic Acid, 30% in w                 | 4         | 4                         | 3                    | 2                    | 3          | 3          | 2                                  | 3                  | 1                      | 1         | -        |
| Malic Acid, 36% in w                  | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 4                      | 1         | -        |
| Manganese Salts                       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Mercuric Chloride, 6% in w            | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Mercuric Cyanide, 8% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Mercury                               | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Mercury Salts                         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Methane Gas                           | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 2         | 4        |
| Methanol                              | 4         | 4                         | 4                    | 2                    | 1          | 4          | 2                                  | 1                  | 4                      | 1         | 2        |
| Methyl Acetate                        | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                                  | 2                  | 4                      | 2         | -        |
| Methyl Bromide                        | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | 2        |
| Methyl Chloride                       | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | 4        |
| Methyl Ethyl Ketone                   | 4         | 4                         | 4                    | 4                    | 3          | 3          | 4                                  | 4                  | 4                      | 2         | 4        |
| Methyl Isobutyl Ketone                | 4         | 4                         | 4                    | 4                    | 3          | 3          | 4                                  | 4                  | 4                      | 2         | 4        |
| Methylene Chloride                    | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | 4        |
| Methyl Methacrylate                   | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 3                      | 1         | 2        |
| Milk                                  | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Mineral Oil                           | 3         | 3                         | 4                    | 1                    | 4          | 4          | 4                                  | 4                  | 1                      | 1         | 2        |
| Mineral Spirits                       | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | -        |
| Molasses                              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Monoethanolamine                      | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | -         | -        |
| Motor Oil                             | 4         | 4                         | 4                    | 1                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | -        |
| Naphtha                               | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 2         | 4        |
| Naphthalene                           | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 1         | 4        |
| Natural Gas                           | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 2         | 2        |
| Nickel Chloride, 40% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Nickel Nitrate, 75% in w              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Nickel Salts                          | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Nickel Sulfate, 25% in w              | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Nitric Acid, 10% in w                 | 1         | 1                         | 1                    | 4                    | 1          | 1          | 3                                  | 1                  | 1                      | 1         | 4        |
| Nitric Acid, 35% in w                 | 1         | 1                         | 1                    | 4                    | 1          | 1          | 4                                  | 1                  | 3                      | 1         | 4        |
| Nitric Acid, 68-71% in w              | 4         | 4                         | 4                    | 4                    | 1          | 1          | 4                                  | 4                  | 4                      | -         | 4        |
| Nitrobenzene                          | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | 1         | 4        |
| Nitromethane                          | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | 1         | -        |
| Nitrous Acid, 10% in w                | 1         | 1                         | 1                    | 3                    | 1          | 1          | 2                                  | 1                  | 1                      | -         | -        |
| Nitrous Oxide                         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Oils, Animal                          | 4         | 4                         | 3                    | 1                    | 2          | 2          | 1                                  | 3                  | 1                      | -         | 2        |
| Oils, essential                       | 4         | 4                         | 4                    | 3                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | -        |
| Oils, Hydraulic (Phosphate Ester)     | 4         | 4                         | 4                    | 1                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | -        |
| Oils, Hydrocarbon                     | 4         | 4                         | 4                    | 1                    | 4          | 4          | 2                                  | 4                  | 1                      | -         | -        |
| Oils, Vegetable                       | 4         | 4                         | 3                    | 1                    | 2          | 2          | 1                                  | 3                  | 1                      | 1         | 2        |
| Oleic Acid                            | 4         | 4                         | 3                    | 2                    | 3          | 4          | 2                                  | 3                  | 1                      | 1         | 4        |
| Oleum, 25% in w                       | 1         | 1                         | 1                    | 2                    | 1          | 1          | 2                                  | 1                  | 1                      | -         | -        |
| Ortho Dichlorobenzene                 | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | -         | -        |
| Oxalic Acid, 12% in w                 | 2         | 2                         | 2                    | 4                    | 1          | 1          | 1                                  | 2                  | 4                      | 1         | 2        |
| Oxygen                                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Ozone, 300pphm                        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Palmitic Acid, 100% in ether          | 4         | 4                         | 3                    | 2                    | 3          | 3          | 2                                  | 3                  | 1                      | 1         | -        |
| Paraffins                             | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 2                      | 1         | 4        |
| Perchloric Acid, 67% in w             | 1         | 3                         | 1                    | 4                    | 1          | 1          | 4                                  | 1                  | 1                      | 1         | 4        |
| Perchloroethylene                     | 3         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | 2        |
| Phenol, 5-10% in w                    | 4         | 2                         | 1                    | 1                    | 1          | 1          | 4                                  | 1                  | 1                      | 1         | 4        |
| Phenol, 91% in w                      | 4         | 4                         | 1                    | 3                    | 1          | 1          | 4                                  | 1                  | 1                      | -         | 4        |
| Phosphoric Acid, <10% in w            | 1         | 1                         | 1                    | 1                    | 1          | 1          | 3                                  | 1                  | 1                      | 1         | 4        |
| Phosphoric Acid, 25% in w             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 4                                  | 1                  | 1                      | 1         | 4        |
| Phosphoric Acid, 85% in w             | 2         | 1                         | 1                    | 4                    | 1          | 1          | 4                                  | 1                  | 1                      | 1         | 4        |
| Phosphorous Trichloride Acid          | 2         | 1                         | 2                    | 4                    | 1          | 1          | 4                                  | 2                  | 2                      | -         | -        |
| Photographic Solutions                | 2         | 1                         | 2                    | 1                    | 1          | 1          | 2                                  | 2                  | 1                      | -         | -        |
| Phthalic Acid, 9% in alc              | 4         | 4                         | 1                    | 3                    | 1          | 1          | 2                                  | 1                  | 1                      | -         | 2        |
| Phthalic Anhydride, 9% in alc         | 2         | 4                         | 1                    | 4                    | 1          | 1          | 1                                  | 1                  | 4                      | 1         | -        |
| Picric Acid, 1% in w                  | 4         | 1                         | 4                    | 1                    | 1          | 1          | 4                                  | 4                  | 1                      | 1         | 4        |
| Plating Solutions                     | 2         | 1                         | 1                    | 4                    | 1          | 1          | 4                                  | 1                  | 1                      | -         | -        |
| Potassium Carbonate, 55% in w         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Potassium Cyanide, 33% in w           | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Potassium Dichromate, 5% in w         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Potassium Hydroxide, <10% in w        | 1         | 1                         | 1                    | 4                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Potassium Hypochlorite, 70% in w      | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |

|                                 | Tygon LFL | Tygon ST<br>R-3603/R-3607 | Pharmed<br>Ismaprene | Tygon HC<br>F-4040-A | Tygon MHLL | Tygon MHSL | Tygon S1<br>Silikon 3350<br>Platin | Norprene<br>A-60-G | Fluran HCA<br>F-5500-A | CHEM-SURE | STA-PURE |
|---------------------------------|-----------|---------------------------|----------------------|----------------------|------------|------------|------------------------------------|--------------------|------------------------|-----------|----------|
| Potassium Iodide, 56% in w      | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Potassium Permanganate, 6% in w | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Potassium Salts                 | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Propane Gas                     | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 2         | 4        |
| Propyl Alcohol (Propanol)       | 4         | 4                         | 3                    | 1                    | 1          | 1          | 4                                  | 3                  | 1                      | -         | -        |
| Propylene Glycol                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Propylene Oxide                 | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 2         | -        |
| Pyridine                        | 1         | 4                         | 3                    | 4                    | 3          | 3          | 4                                  | 3                  | 4                      | 1         | 4        |
| Salicylic Acid, 1% in w         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 4                      | -         | -        |
| Silicone Oils                   | 1         | 2                         | 3                    | 1                    | 1          | 2          | 4                                  | 3                  | 1                      | -         | 4        |
| Silver Nitrate, 55% in w        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Skydrol 500A                    | 4         | 4                         | 4                    | 1                    | 4          | 4          | 4                                  | 4                  | 1                      | -         | -        |
| Soap Solutions                  | 1         | 1                         | 2                    | 1                    | 1          | 1          | 1                                  | 2                  | 1                      | 1         | 2        |
| Sodium Acetate, 55% in w        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Sodium Benzoate, 22% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Sodium Bicarbonate, 7% in w     | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sodium Carbonate, 7% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Sodium Chlorate, 45% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Sodium Chloride, 20% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sodium Cyanide, 30% in w        | 1         | 1                         | 1                    | 4                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sodium Fluoride, 3% in w        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Sodium Hydroxide, 10-15% in w   | 1         | 1                         | 1                    | 4                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sodium Hydroxide, 30-40% in w   | 1         | 3                         | 1                    | 4                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Sodium Hypochlorite, 5.5% in w  | 1         | 1                         | 1                    | 1                    | 1          | 1          | 4                                  | 1                  | 1                      | 1         | 2        |
| Sodium Hypochlorite, 12.2% in w | 1         | 1                         | 1                    | 1                    | 1          | 1          | 4                                  | 1                  | 1                      | 1         | 2        |
| Sodium Nitrate, 3.5% in w       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Sodium Salts                    | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Sodium Sulfates, 3.6% in w      | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sodium Sulfide, 13% in w        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sodium Sulfite, 10% in w        | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Stannic Chloride, 50% in w      | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Stannous Chloride, 45% in w     | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 2        |
| Stearic Acid, 5% in alc         | 1         | 4                         | 3                    | 2                    | 3          | 3          | 2                                  | 3                  | 1                      | 1         | 2        |
| Styrene Monomer                 | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 3                      | 1         | -        |
| Sulfur Chloride                 | 1         | 4                         | 4                    | 4                    | 1          | 1          | 4                                  | 4                  | 1                      | 1         | 4        |
| Sulfur Dioxide, Dry Gas         | 1         | 1                         | 1                    | 2                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sulfur Dioxide, Wet gas         | 1         | 1                         | 1                    | 2                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Sulfur Trioxide, Wet            | 1         | 2                         | 2                    | 4                    | 2          | 2          | 2                                  | 2                  | 2                      | -         | 2        |
| Sulfuric Acid, 10% in w         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Sulfuric Acid, 30% in w         | 1         | 1                         | 1                    | 2                    | 1          | 1          | 2                                  | 1                  | 1                      | 1         | 4        |
| Sulfuric Acid, 95-98% in w      | 4         | 4                         | 4                    | 4                    | 1          | 4          | 4                                  | 4                  | 1                      | 1         | 4        |
| Sulfurous Acid                  | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Tannic Acid, 75% in w           | 1         | 2                         | 2                    | 4                    | 1          | 1          | 1                                  | 2                  | 4                      | -         | 2        |
| Tartaric Acid, 56% in w         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Tetrahydrofuran                 | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | 2         | -        |
| Thionyl Chloride                | 1         | 1                         | 1                    | 2                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | 4        |
| Tin Salts                       | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Titanium Salts                  | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Toluene                         | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 3                      | 1         | 4        |
| Trichloroacetic Acid, 90% in w  | 1         | 1                         | 2                    | 4                    | 1          | 1          | 1                                  | 2                  | 4                      | -         | -        |
| Trichloroethane                 | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 2         | 4        |
| Triethanolamine                 | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | 1         | -        |
| Trichloroethylene               | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 4                      | 2         | 4        |
| Trichloropropane                | 4         | 4                         | 3                    | 4                    | 4          | 4          | 4                                  | 3                  | 4                      | -         | -        |
| Tricresyl Phosphate             | 2         | 3                         | 1                    | 3                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 4        |
| Trisodium Phosphate             | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |
| Turpentine                      | 4         | 4                         | 4                    | 2                    | 4          | 4          | 4                                  | 4                  | 1                      | 1         | 4        |
| Urea, 20% in w                  | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 2        |
| Uric Acid                       | 1         | 1                         | 1                    | 3                    | 1          | 1          | 1                                  | 1                  | 3                      | -         | -        |
| Vinegar                         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 4                      | 1         | 2        |
| Vinyl Acetate                   | 4         | 4                         | 2                    | 4                    | 4          | 4          | 4                                  | 2                  | 4                      | 2         | -        |
| Water, Deionized                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 1        |
| Water, Distilled                | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | 1        |
| Xylene                          | 4         | 4                         | 4                    | 4                    | 4          | 4          | 4                                  | 4                  | 3                      | 1         | 4        |
| Zinc Chloride, 80% in w         | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | 1         | -        |
| Zinc Salts                      | 1         | 1                         | 1                    | 1                    | 1          | 1          | 1                                  | 1                  | 1                      | -         | -        |