



Corrosion Resistance Tables

Metals, Nonmetals, Coatings, Mortars,
Plastics, Elastomers and Linings, and Fabrics

Fourth Edition, Revised and Expanded

Part A, A-D

Philip A. Schweitzer, P.E.

Using the Tables

The tables are arranged alphabetically according to corrodent. Unless otherwise noted, the corrodent is considered pure in the case of liquids, or a saturated aqueous solution in the case of solids. All percentages shown are by weight.

There are four pages for each corrodent: one for the resistance to metals; one for the resistance to nonmetallic materials, coatings, and mortars; one for the resistance to plastics; and one for the resistance to elastomers, linings, and fabrics.

TABLE NOTATION

Since corrosion is a function of temperature, the tables indicate the suitability of each material at varying temperatures. Symbols used to designate specific corrosion rates are shown on the bottom of the metals pages. The use of the temperature scale is explained by the following example.

		ACETIC ACID 80%																									
		°C										°F															
		15	26	38	49	60	71	82	93	104	116	127	138	149	160	171	182	193	204	216	227	238	249	260	271	282	293
METALS		60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560
MONEL		E			G																						
STAINLESS STEELS																											
Type 316		E		G				S			U																

From the sample table, it is seen that in the presence of an 80% solution of acetic acid, monel has a corrosion rate varying with temperature rated as follows:

- From 60 to 120°F, excellent (E): < 2 mils penetration/year.
- From 120 to 210°F, good (G): < 20 mils penetration/year.
- There are no data for temperatures beyond 210°F.

Type 316 stainless steel has a corrosion rate for the same corrodent varying with temperature rated as follows:

- From 60 to 100°F, excellent (E): < 2 mils penetration/year.
- From 100 to 180°F, good (G): < 20 mils penetration/year.
- From 180 to 240°F, satisfactory (S): < 50 mils penetration/year.
- Above 240°F, unsatisfactory (U): > 50 mils penetration/year.

Nonmetallics are only rated as resistant (R) or unsatisfactory (U), because they do not exhibit a useful corrosion rate, as explained previously.

Other Notation

Further information regarding the corrosion of specific materials by certain corrodents is provided by the following symbols. In the tables, the symbols follow the applicable material or corrodent name.

Symbol	Meaning
1	Material is subject to pitting.
2	Material is subject to stress cracking.
3	Material is subject to crevice attack.
4	Not for use with carbonated beverages.
5	Material should be passivated.
6	Alkaline.
7	Acid free.
8	Acid free and passivated.
9	Material is subject to intergranular corrosion.
10	Synthetic veil or surfacing mat should be used.
11	Material will cause stress cracking in many polyethylenes. A stress crack-resistant, high molecular weight polyethylene must be used.
12	Material is subject to stress cracking when wet.
ALL	Data applies to all concentrations.
ELC	Material is low-carbon grade.
SAT	Solution is saturated.

General Notes

- Incolloy category is applicable to grades 800 and 825 only, unless otherwise specified.

- Inconel category is applicable to grade 600, unless otherwise specified.
- The mortars specified are for use fully immersed or subject to constant flow.
- The coatings specified are for use fully immersed or for wet spills or wet fumes.
- There are many epoxy formulations. Where epoxy is shown as being a satisfactory material of construction, it indicates that there is a suitable formulation. Manufacturers should be consulted for the suitability of their specific formulation.
- See Appendix 3 for plating solution compositions.

READING THE TEMPERATURE SCALE

When using the tables, note that the vertical lines refer to temperatures midway between the temperatures cited (see the sample table below). Thus, aluminum is corroded by pyridine at a rate less than 20 mils/year between 60 and 350°F. Brass, carbon steel, and copper have the same corrosion rate between the temperatures of 60 and 210°F, 120°F, and 80°F, respectively.

When a material is indicated to be unsatisfactory at a specific temperature, it is also unsatisfactory at all temperatures above the one shown. A blank in the chart indicates that no data are available.

		PYRIDINE																											
		°C	15	26	38	49	60	71	82	93	104	116	127	138	149	160	171	182	193	204	216	227	238	249	260	271	282	293	
METALS		°F	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	
ADMIRALTY BRASS																													
ALUMINUM	G																												
ALUMINUM BRONZE																													
BRASS	G																												
BRONZE																													
CARBON STEEL	G																												
COLUMBIUM (NIOBIUM)																													
COPPER	G																												
HASTELLOY B/B-2																													
HASTELLOY C/C-276																													

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Part A, A-D

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Acetaldehyde / Acetamide / Acetate Solvents, Crude / Acetate Solvents, Pure / Acetic Acid 10% / Acetic Acid 20% / Acetic Acid 50% / Acetic Acid 80% / Acetic Acid, Glacial / Acetic Acid Vapors / Acetic Anhydride / Acetone / Acetone, 50% Water / Acetonitrile / Acetophenone / Acetyl Chloride / Acetylene / Acetylene Tetrabromide / Acrylic Acid / Acrylonitrile / Adipic Acid / Allyl Alcohol / Allyl Chloride / Alum (Aluminum Potassium Sulfate) / Alum Ammonium / Alum Ammonium Sulfate / Alum Chrome / Alum Potassium / Aluminum Acetate (Sat.) / Aluminum Bromide / Aluminum Chloride Aqueous / Aluminum Chloride Dry / Aluminum Fluoride (Sat.) / Aluminum Hydroxide / Aluminum Nitrate (Sat.) / Aluminum Oxalate / Aluminum Oxychloride / Aluminum Phosphate / Aluminum Potassium Sulfate / Aluminum Sulfate (Sat.) / Ammonia (Anhydrous) / Ammonia Gas / Ammonium Acetate / Ammonium Bicarbonate / Ammonium Bifluoride / Ammonium Bromide 5% / Ammonium Carbonate (Sat.) / Ammonium Chloride 10% / Ammonium Chloride 28% / Ammonium Chloride 50% / Ammonium Chloride (Sat.) / Ammonium Citrate / Ammonium Dichromate / Ammonium Fluoride 10% / Ammonium Fluoride 25% / Ammonium Hydroxide 10% / Ammonium Hydroxide 25% / Ammonium Hydroxide (Sat.) / Ammonium Metaphosphate / Ammonium Nitrate / Ammonium Oxalate 10% / Ammonium Oxalate 20-30% / Ammonium Persulfate / Ammonium Phosphate / Ammonium Sulfate 10-40% / Ammonium Sulfate (Sat.) / Ammonium Sulfide / Ammonium Sulfite / Ammonium Thiocyanate / Amyl Acetate / Amyl Alcohol / Amyl Chloride / Aniline / Aniline Chlorohydrate / Aniline Hydrochloride / Anthraquinone / Anthraquinone Sulfonic Acid / Antimony Trichloride / Aqua Regia 3:1 / Argon / Aroclor / Arsenic Acid / Asphalt / Asphalt Emulsion

B**337**

Barium Acetate / Barium Carbonate (Sat.) / Barium Chloride (Sat.) / Barium Cyanide / Barium Hydroxide (Sat.) / Barium Nitrate / Barium Sulfate / Barium Sulfide / Beer / Beet Sugar Liquors / Benzaldehyde / Benzene, Benzol / Benzene Sulfonic Acid 10% / Benzene Sulfonic Acid 100% / Benzoic Acid / Benzointrile / Benzoyl Chloride / Benzyl Acetate / Benzyl Alcohol / Benzyl Chloride / Bismuth Carbonate / Black Liquor / Bleach, 12.5% Active Chlorine / Blood / Borax / Borax Liquors / Bordeaux Mixtures / Boric Acid / Brine Acid / Bromic Acid / Bromine Gas Dry / Bromine Gas Moist / Bromine Liquid / Bromine Water Dilute / Bromine Water (Sat.) / Bromobenzene / Butadiene (Butylene) / Butane / Butyl Acetate / Butyl Alcohol / Butyl Alcohol Primary / Butyl Alcohol Secondary / Butyl Alcohol Tertiary / *n*-Butylamine / Butyl Bromide / Butyl Cellosolve / Butyl Chloride / Butylene (Butadiene) / Butyl Ether / *n*-Butyl Mercaptan / Butyl Phenol / Butyl Phthalate / Butyl Stearate / Butyne Diol / Butyraldehyde / Butyric Acid

C**561**

Cadmium Chloride / Cadmium Cyanide / Cadmium Sulfate 10% / Calcium Acetate / Calcium Bicarbonate / Calcium Bisulfate / Calcium Bisulfide / Calcium Bisulfite / Calcium Bromide 38% / Calcium Carbonate / Calcium Chlorate / Calcium Chloride Dilute / Calcium Chloride (Sat.) / Calcium Fluoride / Calcium Hydroxide 10% / Calcium Hydroxide 20% / Calcium Hydroxide 30% / Calcium Hydroxide (Sat.) / Calcium Hypochlorite 30% / Calcium Hypochlorite (Sat.) / Calcium Nitrate / Calcium Oxide / Calcium Sulfate / Calcium Sulfide / Camphor / Cane Sugar Liquors / Caprylic Acid / Carbitol / Carbon Bisulfide (Disulfide) / Carbon Dioxide Dry / Carbon Dioxide Wet / Carbon Disulfide (Bisulfide) / Carbon Monoxide / Carbon Tetrachloride / Carbonic Acid / Castor Oil / Caustic Potash (Potassium Hydroxide) / Cellosolve / Cellulose Acetate / Chloral Hydrate / Chloramine Dilute / Chloric Acid 10% / Chloric Acid 20% / Chlorine Dioxide 15% / Chlorine Gas Dry / Chlorine Gas Wet / Chlorine Liquid / Chlorine Water (Sat.) / Chloroacetic Acid / Chloroacetic Acid, 50% Water / Chloroacetyl Chloride / Chlorobenzene (Phenylchloride) / Chlorobenzyl Chloride / Chloroform / Chlorophenol, 5% Aqueous / Chloropicrin / Chlorosulfonic Acid 100% / Chrome Alum / Chromic Acid 10% / Chromic Acid 30% / Chromic Acid 40% / Chromic Acid 50% / Chromium Potassium Sulfate / Chromyl Chloride / Citric Acid 5% / Citric Acid 10% / Citric Acid 15% / Citric Acid (Conc.) / Clorox Bleach Solution, 5.5% Chlorine / Coal Gas / Coconut Oil / Coffee / Coke Oven Gas / Copper Acetate / Copper Carbonate / Copper Chloride / Copper Cyanide / Copper Fluoride / Copper Nitrate / Copper Sulfate / Corn Oil / Cottonseed Oil / Creosote / Cresol / Cresylic Acid 50% / Cresylic Acid (Conc.) / Croton Aldehyde / Crude Oil / Cumene / Cupric Chloride 5% / Cupric Chloride 50% / Cupric Cyanide / Cupric Fluoride / Cupric Nitrate / Cupric Sulfate / Cuprous Chloride / Cyanoacetic Acid / Cyanogen Gas / Cyclohexane / Cyclohexanol / Cyclohexanone

D**965**

Detergents / Detergent Solution, Heavy Duty / Dextrin / Dextrose / Diacetone Alcohol / Diammonium Phosphate / Diazo Salts / Dibenzyl Ether / Dibutyl Ether / Dibutyl Phthal-

ate / Dichloroacetic Acid / Dichlorobenzene / Dichloroethane (Ethylene Dichloride) / Dichloroethylene / Diesel Fuels / Diethanolamine / Diethylamine / Diethyl Benzene / Diethyl Cellosolve / Diethyl Ether / Diethylene Glycol / Diethylene Triamine / Diglycolic Acid / Dimethylamine / Dimethylamine Aqueous / Dimethyl Aniline / Dimethyl Ether / Dimethyl Formamide / Dimethyl Phthalate / Dimethyl Sulfoxide / Dioctyl Phthalate / Dioctyl Sebacate / Dioxane / Dipentene / Diphenyl (Dowtherm) / Diphenyl Oxide / Disodium Phosphate

Part B, E-O

E

1113

Epichlorhydrin / Esters, General / Ethane / Ethanolamine / Ethers, General / Ethyl Acetate / Ethyl Acetoacetate / Ethyl Acrylate / Ethyl Alcohol / Ethyl Benzene / Ethyl Chloride / Ethyl Chloroacetate / Ethyl Ether / Ethyl Formate / 2-Ethyl Hexanol / Ethyl Mercaptan / Ethyl Oxalate / Ethylene Bromide / Ethylene Chloride / Ethylene Chlorohydrin / Ethylene Diamine / Ethylene Dibromide / Ethylene Dichloride (Dichloroethane) / Ethylene Glycol / Ethylene Oxide

F

1213

Fatty Acids / Ferric Acetate / Ferric Chloride / Ferric Chloride 50% in Water / Ferric Hydroxide / Ferric Nitrate 10-50% / Ferric Nitrate (Sat.) / Ferric Sulfate / Ferrous Ammonium Citrate / Ferrous Chloride (Sat.) / Ferrous Hydroxide / Ferrous Nitrate / Ferrous Sulfate / Fish Oil / Fish Solubles / Flue Gas / Fluoboric Acid / Fluorine Gas Dry / Fluorine Gas Moist / Fluorosilicic Acid 50% / Fluosilicic Acid / Formaldehyde Dilute / Formaldehyde 35% Solution / Formaldehyde 37% Solution / Formaldehyde 50% Solution / Formic Acid 5% / Formic Acid 10-85% / Formic Acid Anhydrous / Freon F-11 / Freon F-12 / Freon F-21 / Freon F-22 / Freon F-113 / Fructose / Fruit Juices, Pulp / Fuel Oil / Furfural

G

1361

Gallic Acid / Gas, Manufactured / Gas, Natural / Gasohol / Gasoline, Leaded / Gasoline, Refined / Gasoline, Sour / Gasoline, Unleaded / Gelatin / Gin / Glauber's Salt / Glucose (Corn Syrup) / Glue / Glycerine (Glycerol) / Glycolic Acid / Glycols / Green Liquor

H

1429

Heptane / Hexamethylene Tetramine / Hexamine / Hexane / Hexanol, Tertiary / Hydrazine / Hydrobromic Acid Dilute / Hydrobromic Acid 20% / Hydrobromic Acid 50% / Hydrochloric Acid Dilute / Hydrochloric Acid 20% / Hydrochloric Acid 35% / Hydrochloric Acid 38% / Hydrochloric Acid 50% / Hydrochloric Acid Fumes / Hydrocyanic Acid 10% / Hydrocyanic Acid (Conc.) / Hydrofluoric Acid Dilute / Hydrofluoric Acid

30% / Hydrofluoric Acid 40% / Hydrofluoric Acid 50% / Hydrofluoric Acid 70% / Hydrofluoric Acid 100% / Hydrofluoric Acid Vapors / Hydrofluosilicic Acid 10-50% / Hydrogen / Hydrogen Chloride Gas Dry / Hydrogen Chloride Gas Moist / Hydrogen Cyanide / Hydrogen Fluoride / Hydrogen Iodide / Hydrogen Peroxide Dilute / Hydrogen Peroxide 30% / Hydrogen Peroxide 50% / Hydrogen Peroxide 90% / Hydrogen Phosphide / Hydrogen Sulfide Aqueous Solution / Hydrogen Sulfide Dry / Hydrogen Sulfide Wet / Hydrogen Sulfite / Hydroiodic Acid (49% + 12% Iodine) / Hydroquinone / Hypochlorous Acid

I **1601**

Iodine / Iodine Solution 10% / Iodine Solution (Sat.) / Iodine in Alcohol / Iodoform / Isobutane / Isobutyl Alcohol / Isooctane / Isopropyl Acetate / Isopropyl Alcohol / Isopropyl Ether

J **1645**

Jet Fuel JP-4 / Jet Fuel JP-5

K **1653**

Kerosene / Ketchup / Ketones, General / Kraft Liquor

L **1669**

Lactic Acid 5% / Lactic Acid 10% / Lactic Acid 25% / Lactic Acid 80% / Lactic Acid (Conc.) / Lard Oil / Lauric Acid / Lauryl Chloride / Lead Acetate / Lead Chloride / Lead Nitrate / Lead Sulfate / Lime Slurry / Lime Sulfur / Linoleic Acid / Linseed Oil / Liqueurs / Lithium Bromide / Lithium Chloride 30% / Lithium Hydroxide 10% / Lubricating Oil

M **1753**

Machine Oil / Magnesium Carbonate / Magnesium Chloride / Magnesium Citrate / Magnesium Hydroxide / Magnesium Nitrate / Magnesium Sulfate / Maleic Acid / Maleic Anhydride / Malic Acid / Manganese Carbonate / Manganese Chloride / Mercuric Chloride / Mercuric Cyanide / Mercuric Nitrate / Mercurous Nitrate / Mercury / Methane / Methane Sulfonic Acid 50% / Methyl Acetate / Methyl Acetone / Methyl Alcohol / Methyl Amine / Methyl Bromide / Methyl Cellosolve / Methyl Chloride / Methyl Chloroform / Methyl Ethyl Ketone / Methyl Formate / Methyl Isobutyl Carbinol / Methyl Isobutyl Ketone / Methyl Methacrylate / Methyl Salicylate / Methyl Sulfate / Methyl Sulfuric Acid / Methylene Chloride / Methylene Chlorobromide / Milk / Mineral Oil / Mixed Acids / Molasses / Molybdic Acid 5%* / Monochlorobenzene / Monochlorodifluoromethane / Monoethanolamine / Morpholine / Motor Oil / Muriatic Acid

N**1945**

Naphtha / Naphthalene / Naphthalenic Acid / Nickel Acetate / Nickel Chloride / Nickel Nitrate / Nickel Salt / Nickel Sulfate / Nicotine / Nicotinic Acid / Nitric Acid 5% / Nitric Acid 10% / Nitric Acid 20% / Nitric Acid 30% / Nitric Acid 40% / Nitric Acid 50% / Nitric Acid 70% / Nitric Acid 100% (Anhydrous) / Nitric Acid Fuming (Red) / Nitric Acid:Sulfuric Acid 50:50 / Nitrobenzene / Nitrogen / Nitrogen Dioxide / Nitromethane / Nitrous Acid 5% / Nitrous Acid 10% / Nitrous Acid (Conc.) / Nitrous Oxide

O**2057**

Ocenol / Octane / Oil and Fats / Oils, Vegetable / Oleic Acid / Oleum / Olive Oil / Oxalic Acid 5% / Oxalic Acid 10% / Oxalic Acid 50% / Oxalic Acid (Sat.) / Oxygen / Oxygen Gas / Ozone

Part C, P-Z**P****2113**

Palmitic Acid 10% / Palmitic Acid 70% / Palmitic Acid (Conc.) / Paraffin / Peanut Oil / Pentane / Peracetic Acid 40% / Perchloric Acid 10% / Perchloric Acid 70% / Perchloroethylene / Petrolatum / Petroleum Ether / Petroleum Oils, Refined / Petroleum Oils, Sour / Phenol (Carbolic Acid) / Phenol 10% / Phenylhydrazine / Phenylhydrazine Hydrochloride / Phosgene Gas / Phosgene Liquid / Phosphoric Acid 5% / Phosphoric Acid 10% / Phosphoric Acid 25-50% / Phosphoric Acid 50-85% / Phosphoric Anhydride (Dry or Moist) / Phosphorus / Phosphorus Oxychloride / Phosphorus Pentoxide / Phosphorus Red / Phosphorus Trichloride / Phosphorus Yellow / Photographic Solutions / Phthalic Acid / Phthalic Anhydride / Picric Acid / Picric Acid 10% / Plating Solutions, Brass / Plating Solutions, Cadmium / Plating Solutions, Chrome 25% / Plating Solutions, Chrome 40% / Plating Solutions, Copper (Cyanide) / Plating Solutions, Gold / Plating Solutions, Iron / Plating Solutions, Lead / Plating Solutions, Nickel / Plating Solutions, Rhodium / Plating Solutions, Silver / Plating Solutions, Tin / Plating Solutions, Zinc / Polysulfide Liquor / Polyvinyl Acetate / Potassium Acetate / Potassium Aluminum Sulfate / Potassium Bicarbonate 30% / Potassium Bicarbonate (Sat.) / Potassium Bichromate / Potassium Bisulfate / Potassium Borate / Potassium Bromate / Potassium Bromide 30% / Potassium Bromide (Sat.) / Potassium Carbonate 50% / Potassium Chlorate, Aqueous 30% / Potassium Chloride 30% / Potassium Chromate 30% / Potassium Cyanide 30% / Potassium Dichromate 30% / Potassium Dichromate (Sat.) / Potassium Ferricyanide 30% / Potassium Ferrocyanide 30% / Potassium Fluoride / Potassium Hydroxide 5% / Potassium Hydroxide 27% / Potassium Hydroxide 50% / Potassium Hydroxide 90% / Potassium Hypochlorite / Potassium Iodide 70% / Potassium Nitrate 1-5% / Potassium Nitrate 80% / Potassium Nitrite / Potassium Oxalate 20% / Potassium Perborate / Potassium Perchlorate / Potassium Permanganate 10% / Potassium Permanga-

~~ate 20% / Potassium Peroxide / Potassium Persulfate / Potassium Sulfate 10% / Potassium Sulfate, Pure / Potassium Sulfide / Potassium Sulfite / Potassium Triphosphate / Propane / Propargyl Alcohol / Propionic Acid / Propyl Acetate / Propyl Alcohol / Propyl Nitrate / Propylene Dichloride / Propylene Glycol / Propylene Oxide / Pyridine / Pyrogallol / Pyrogallic Acid / Pyrologous Acid~~

Q 2533

Quinine Bisulfate / Quinine Sulfate / Quinone

R 2545

Rayon Coagulating Bath / Resorcinol

S 2553

Salenic Acid Aqueous / Salicylic Acid / Salicylaldehyde / Salicylic Acid / Silicone Oil / Silver Bromide 10% / Silver Chloride / Silver Cyanide / Silver Nitrate / Soaps / Soap Solution 5% / Soap Solutions / Sodium Acetate / Sodium Aluminate / Sodium Benzoate / Sodium Bicarbonate 20% / Sodium Bichromate Neutral / Sodium Bisulfate / Sodium Bisulfite / Sodium Borate / Sodium Bromide / Sodium Carbonate / Sodium Chlorate / Sodium Chloride / Sodium Chlorite / Sodium Chromate 80% / Sodium Citrate / Sodium Cyanide / Sodium Dichromate / Sodium Ferricyanide / Sodium Ferrocyanide / Sodium Fluoride / Sodium Hydrosulfite / Sodium Hydroxide 10% / Sodium Hydroxide 15% / Sodium Hydroxide 30% / Sodium Hydroxide 50% / Sodium Hydroxide 70% / Sodium Hydroxide Solution (Conc.) / Sodium Hypochlorite 20% / Sodium Hypochlorite (Conc.) / Sodium Hyposulfite 5% / Sodium Iodide / Sodium Lactate / Sodium Metaphosphate / Sodium Metasilicate / Sodium Nitrate / Sodium Nitrite / Sodium Perborate 10% / Sodium Peroxide 10% / Sodium Phosphate Acid / Sodium Phosphate Alkaline / Sodium Phosphate Neutral / Sodium Silicate / Sodium Sulfate / Sodium Sulfide to 50% / Sodium Sulfite 10% / Sodium Thiosulfate (Hypo) / Sour Crude Oil / Soybean Oil / Speculum Plating Solution / Stannic Chloride / Stannous Chloride / Steam, Low Pressure / Steam, Medium Pressure / Steam, High Pressure / Stearic Acid / Stoddard's Solvent / Styrene / Succinic Acid / Sulfamic Acid / Sulfate Liquors / Sulfite Liquors / Sulfonated Detergents / Sulfur / Sulfur Chloride / Sulfur Dichloride / Sulfur Dioxide Dry / Sulfur Dioxide Wet / Sulfur Trioxide / Sulfuric Acid 10% / Sulfuric Acid 30% / Sulfuric Acid 50% / Sulfuric Acid 60% / Sulfuric Acid 70% / Sulfuric Acid 80% / Sulfuric Acid 90% / Sulfuric Acid 95% / Sulfuric Acid 98% / Sulfuric Acid 100% / Sulfuric Acid 103% / Sulfuric Acid Fuming / Sulfuric Anhydride Dry / Sulfurous Acid / Sulfuryl Chloride

T 2933

Tall Oil / Tannic Acid / Tanning Liquors / Tar / Tartaric Acid / Tetrachloroacetic Acid / Tetrachloroethane / Tetrachloroethylene / Tetraethyl Lead / Tetrahydrofuran / Tetralin / Tetramethyl Ammonium Hydroxide 50% / Tetrphosphoric Acid / Thionyl Chloride

ide / Thread Cutting Oil / Tin Chloride / Titanium Tetrachloride / Toluene (Toluol) / Toluene-Kerosene 25-75% / Tomato Juice / Toxaphene-Xylene 10-90% / Transformer Oil / Transformer Oil DTE/30 / Tributyl Phosphate / Trichloroacetic Acid / Trichloroacetic Acid 2N / Trichloroethylene / Triethanolamine / Triethylamine / Trimethyl Propane / Trisodium Phosphate / Turpentine

U **3061**

Uranyl Sulfate 5% / Urea / Uric Acid (Conc.) / Urine

V **3077**

Varnish / Vegetable Oil / Vinegar / Vinyl Acetate

W **3093**

Water, Acid Mine / Water, Demineralized / Water, Distilled / Water, Potable / Water, Salt / Water, Sea / Water, Sewage / Whiskey / White Liquor / Wines

X **3133**

Xylene (Xylol)

Z **3137**

Zinc Chloride / Zinc Nitrate / Zinc Sulfate 5% / Zinc Sulfate 25% / Zinc Sulfate 50% / Zinc Sulfate (Sat.)

Appendixes

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