Chemical Resistance Guide

KEY TO GUIDE CODES

1 *Product is suitable for use in immersion and/or splash and spillage conditions*

2 *Product is suitable for occasional and intermittent contact for periods up to 72 hours in duration*

3 *Product is suitable for occasional and intermittent contact for short time periods with frequent washing*

NR *Not recommended for this application*

S *Product may be stained by this chemical*

P *Postcuring recommended; contact PolySpec for details*

C *Non-silica grade recommended for this application*

OVERVIEW

The data on this chart is based on short-term (30–60 day) laboratory immersion tests in a controlled environment (72–77ºF). It is to be used only as a guide in selecting the proper coating, lining or sealant for a particular chemical environment. Many factors must be considered when choosing the correct product for an application, including:

- ***Chemical (single or combination) exposure***
- ***Operating temperature***
- ***Temperature fluctuations***
- ***Type of substrate and its condition***
- ***Mechanical abuse***
- ***Degree of protection required***

It is always best to test a product in the specific chemical environment prior to use. Test coupons will be furnished upon request.

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CHEMICAL RESISTANCE GUIDE

SUBSTANCE	TuffRez® Floor & Wall Coatings				FlakeRez® Flake-Filled Coatings					NovoRez® Epoxy Novolac Coatings				PermaRez® Reinforced Linings			THIOKOL® Flexible Sealants, Coatings & Linings						
	200CR	201, 203, 205, 206	211	237, 238, 239	PE-8202	VE-8360	VE-8304	VE-9310	PE-8109	350	351	353	360	331	333	335	2235 M / SL	2282	FEC 2233	FEC 2234	FNEC 2369	FNEC 2515	RLP 2378+
Acetic Acid, 10%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
Acetic Acid, 25%	2	2	3	2	1	1	1	1	2	2	2	2	2	1	1	1	2	2	3	2	2	2	2
Acetic Acid, 50%	3	3	3	3	2	2	2	2	3	3	3	3	3	2	2	2	2	2	3	3	3	3	2
Acetic Acid, Glacial	3	NR	NR	NR	NR	2	2	2	NR	NR	3	3	NR	NR	2	NR	3	3	NR	NR	3	NR	3
Acetic Anhydride					3	2	2	2					3	NR	2	3							
Acetone	3	3	NR	3	NR	NR	NR	NR	NR	3	3	3	1	NR	NR	NR	2	2	NR	NR	3	NR	2
Acrylic Acid					NR	2	2	3	NR				2	3	2	NR							
Acrylonitrile	3	3	NR	3	NR			NR		NR	3	3	2			NR	3	3	NR	NR	3	NR	3
Aluminum Chloride					1	1	1	1	1	1			1	1	1	1							
Aluminum Fluoride					1C	NR	1	NR	3C					1C	1C	1C							
Aluminum Hydroxide						1	1	1	1				1	1	1								
Aluminum Nitrate						1	1	1	1				1	1	1								
Aluminum Potassium Sulfate					1	1	1	1	1				1	1	1	1							
Aluminum Sulfate	1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ammonia, Gas						1	1	1					2	1	1								
Ammonium Bisulfite					1	1	1						1	1	1	1							
Ammonium Chloride	1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ammonium Fluoride					1C	NR	1	NR	3C					1C	1C	1C							
Ammonium Hydroxide	1	1	1	1	1	1	1	1	NR	1	1	1	1	1	1	1	2	2	1	2	1	2	2
Ammonium Lauryl Sulfate, 30%					2	2	2	1					1	1	1	2							
Ammonium Nitrate	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	2	2	1	2	1	2	2
Ammonium Perchlorate, 50%	1		1								1	1					1	1	1	1	1	1	1
Ammonium Persulfate	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ammonium Polyphosphate	1		1								1	1					1	1	1	1	1	1	1
Ammonium Sulfide					2	2	2	2	NR				1	1	1	1							
Ammonium Sulfite						1	1	2	NR				1	1	1								
Amyl Alcohol	1		1		2	1	1	1	3		1	1	1	2	1	1	1	1	1	1	1	1	1
Aniline	1	NR	3	NR	NR	3	3	NR	NR	NR	1	1	1	NR	3	NR	NR	NR	3	NR	1	NR	NR
Aniline Hydrochloride						1	1	1					1	1	1								
Antimony Trichloride					1			1	1				1			1							
Arsenious Acid						1	1	1	2					1	1								
Barium Chloride						1	1	1	1				1	1	1								
Barium Hydroxide, 10%	1		1								1	1					1	1	1	1	1	1	1
Barium Sulfate					1	1	1	1	1				1	1	1	1							
Barium Sulfide						1	1	2	NR				1	1	1								
Benzaldehyde					NR	3	3	NR					2	NR	3	NR							
Benzene	2	NR	NR	NR	2	2	2	NR	NR	2	2	2	1	NR	2	2	NR	NR	NR	NR	2	NR	NR
Benzene Sulfonic Acid					NR	1	1	1	NR				1	1	1	NR							
Benzoflex 9-88	1		1								1	1					3	3	1	1	1	1	3
Benzoic Acid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
Benzyl Alcohol						2	2	2	NR				1	NR	2								
Benzyl Choride					NR	3	3	NR					1	NR	3	NR							
Black Liquor					1	1	1	1					1	1	1								
Bleach					1C	NR	1	NR	NR				2S	1C	1C	1C							
Boric Acid	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Brine					1	1	1	1	1				1	1	1	1							
Bromine, Gas (Dry & Wet)					2	2	2	1	NR					2	2	2							
Bromine, Liquid	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Butanol					2	1	1	2					1	2	1	2							
Butyl Acetate	2	2	2	2	2	3	3	3	NR	2	2	2	1	NR	3	2	3	3	2	3	2	3	3
Butyl Acrylate						3	3						1	NR	3								
Butyl Cellosolve	1		3		2	2	2	1			1	1	1	2	2	2	1	1	3	3	1	3	1
Butyl Cellosolve Acetate			3														3	3	3	3		3	3
Butyl Oxitol			3														1	1	3	3		3	1

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Butyric Acid					2	1	1	2	NR				2	2	1	2							
Cadmium Chloride						1	1	1					1	1	1								
Cadmium Cyanide - Plating Bath					NR	1	1	1					1	1	1	NR							
Calcium Bisulfite						1	1	1					1	1	1								
Calcium Chloride	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
Calcium Hydroxide	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Hypochlorite	2	2	1	2	2C	NR	1	NR	3C	2	2	2	2	1C	1C	2C	1	1	1	1	2	1	1
Calcium Nitrate						1	1	1	1				1	1	1								
Calcium Sulfate					1	1	1	1	1				1	1	1	1							
Calcium Sulfite						1	1	1					1	1	1								
Caprylic Acid					1	1	1	1	1				2	1	1	1							
Carbon Dioxide, Gas					1	1	1	1					1	1	1	1							
Carbon Disulflide	NR	NR	NR	NR	NR	NR	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Carbon Tetrachloride	1	NR	2	NR	2	1	1	2	NR	1	1	1	1	2	1	2	3	3	2	2	1	2	3
Carbitol Acetate			3														NR	NR	3	3		3	NR
Castor Oil						1	1	1					1	1	1								
Chlorinated Water, 100 ppm	1		1								1	1					1	1	1	1	1	1	1
Chlorine Dioxide					1	1	1	1					2	1	1	1							
Chlorine, Gas (Dry & Wet)					1	1	1	1					3	1	1	1							
Chloride, Water (Sat'd)					1	1	1	1	2				1	1	1	1							
Chloroacetic Acid					NR	NR	NR		NR				2	NR	NR	NR							
Chlorobenzene	NR	NR	NR	NR	NR	3	3	NR	NR	NR	NR	NR	NR	NR	3	NR	NR	NR	NR	NR	NR	NR	NR
Chloroform					NR	NR	NR	NR		NR			1P	NR	NR	NR							
Chloropyridine (Tetra)						1	1						2	2	1								
Chlorosulfonic Acid					NR	NR	NR	NR						NR	NR	NR							
Chlorotoluene					NR	2	2						1	3	2	NR							
Chromic Acid, 10%	1	1	1	1	1	1	1	2	NR	1	1	1	1	1	1	1	NR	NR	1	1	1	1	NR
Chromic Acid, 15%	1	3	3	3	1	2	2	3	NR	3	1	1	1	2	2	1	NR	NR	3	1	1	1	NR
Chromic Acid, 30%	2	NR	NR	NR	1	NR	NR	NR	NR	3	2	2	2	NR	NR	1	NR	NR	NR	1	2	1	NR
Chromic Acid, 35%	2	NR	NR	NR	NR	1	1	1	1	NR	2	2	2	1	1	2	NR	NR	NR	1	2	1	NR
Citric Acid	1	1	1	1	1	1	1	1	NR	1	1	1	1	1	1	1	2	2	1	1	1	1	2
Copper Chloride					1	1	1	1	1				1	1	1	1							
Copper Cyanide					1	1	1	1	NR				1	1	1	1							
Copper Nitrate					1	1	1	1	1				1	1	1	1							
Copper Sulfate	1		1			1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Corn Oil						1	1	1					1	1	1								
Cottonseed Oil					2	1	1	1					1	1	1	2							
Creosote	1		1								1	1					NR	NR	1	1	1	1	NR
Cresylic Acid	3	3	3	3				NR	NR	3	3	3	2				NR	NR	3	3	3	3	NR
Crude Oil, Sour					1	1	1	1	1				1	1	1	1							
Crude Oil, Sweet					1	1	1	1	1				1	1	1	1							
Cumene						2	2						1	3	2								
Cumene Hydroperoxide	2		3								2	2					NR	NR	3	3	2	3	NR
Cyclohexane	1	2	1	2	1	1	1	2	NR	1	1	1	1	2	1	1	1	1	1	1	1	1	1
Decanol						1	1							2	1								
Dibutyl Phthalate					1	1	1	1	NR				1	1	1	1							
Dichlorobenzene					NR	2	2	2					1	NR	2	NR							
Diesel Fuel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Diethylbenzene					2	1	1						1	2	1	2							
Diethylene Glycol	1		1								1	1	1				1	1	1	1	1	1	1
Diethyl Ketone						3	3	NR					1	NR	3								
Dimethyl Formamide					NR	NR	NR	NR					2	NR	NR	NR							
Divinylbenzene					2	2	2						1	3	2	2							
Epichlorohydrin	1		NR			3	3				1	1	1	NR	2		NR	NR	NR	NR	1	NR	NR
Ethoxylated Nonyl Phenol					2								1			2							

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Ethyl Acetate	3	NR	NR	NR	NR	3	3	NR		3	3	3	1	NR	3	NR	2	2	NR	NR	3	NR	2
Ethyl Acrylate	1		3			NR	NR				1	1	1	NR	NR		3	3	3	NR	1	NR	3
Ethyl Alcohol	1		2		2	1	1	1	3		1	1	1	2	1	2	1	1	2	3	1	3	1
2-Ethyl Hexyl Acrylate	1		1								1	1					1	1	1	1	1	1	1
Ethylbenzene					NR	2	2						1	3	2	NR							
Ethyl Bromide					NR	NR	NR						2	NR	NR	NR							
Ethyl Chloride					2	3	3		NR				1P	NR	3	2							
Ethyl Chloroformate					2											2							
Ethylene Dichloride	2	NR	NR	NR	NR	3	3	NR		2	2	2	1	NR	3	NR	NR	NR	NR	NR	2	NR	NR
Ethylene Glycol	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2
Ethylene Oxide						NR	NR						3	NR	NR								
Ethyl Ether					NR	NR	NR	NR						NR	NR	NR							
Ethyl Sulfate					2	2	2						1	2	2	2							
Fatty Acids	1	1	1	1	1			1	1	1	1	1	1			1			1	1	1	1	1
Ferric Chloride	1S	2S	1	2S	1	1	1	1	1	1S	1S	1S	1S	1	1	1	2	2	1	1S	1S	1S	2
Ferric Nitrate					1			1	1				1			1							
Ferric Sulfate					1	1	1	1	1				1	1	1	1							
Ferrous Chloride					1	1	1	1	1				1	1	1	1							
Ferrous Sulfate, 10%	1	2	1	2						1	1	1					1	1	1	1	1	1	1
Fluosilicic Acid, 10%					1C	NR	2C	1C	NR				1C	1C	1C	1C							
Fluosilicic Acid, 35%					1C	NR	2C		NR					2C	2C	1C							
Formaldehyde		2		2	1	1	1	2	NR	1			1	1	1	1							
Formic Acid, 10%	3	3	NR	3	1	1	1	1	2	3	3	3	3	1	1	1	NR	NR	NR	3	3	3	NR
Formic Acid, 90%	NR	NR	NR	NR	2	2	2	2	NR	NR	NR	NR	NR	2	2	2	NR	NR	NR	NR	NR	NR	NR
Formic Acid, 98%		NR	NR	NR	2	2	2	2	NR				NR	2	2	2	NR	NR	NR	NR		NR	NR
Fuel Oil/Diesel Fuel	1		1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Furfural						NR	NR	NR	NR				2	NR	NR								
Furfuryl Alcohol					2	3	3						1	NR	3	2							
Gasoline, Leaded	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Glucose					1	1	1	1					1	1	1	1							
Glycerine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Glycolic Acid					2	2	2		2				1	2	2	2							
Gold Plating Solution					1	1	1	1					1	2	1	1							
Green Liquor					NR	1	1	1					1	1	1	NR							
Heptane	1		1		1	1	1	1	3		1	1	1	1	1	1	1	1	1	1	1	1	1
Hexane	1		1		1	1	1	1	2		1	1	1	1	1	1	1	1	1	1	1	1	1
Hexylene Glycol	1		1								1	1					1	1	1	1	1	1	1
Hydrazine, 35%					3	NR	NR						2	NR	NR	3							
Hydriodic Acid, 40%						1	1						1	2	1								
Hydrobromic Acid, 20%					1	1	1	1	2				1	1	1	1							
Hydrobromic Acid, 48%					1	1	1	1	3				2	1	1	1							
Hydrochloric Acid, 10%	1S	1S	1S	1S	1	1	1	1	1	1S	1S	1S	1S	1	1	1	2	2	1S	2S	1S	2S	2
Hydrochloric Acid, 20%	1S	2S	1S	2S	1	1	1		NR	1	1S	1S	1S	1	1	1	2	2	1S	2S	1S	2S	2
Hydrochloric Acid, 37%	1S	3S	1S	3S	1	1	1	1	NR	2	1S	1S	1S	1	1	1	NR	NR	1S	2S	1S	2S	NR
Hydrofluoric Acid, 10%	1	3	1	3	1C	NR	1	2C	2C	3	1	1	1	1C	1C	1C	1	1	1	1	1	1	1
Hydrofluoric Acid, 20%	1	3	1	3	1C	NR	1	2C	NR	NR	1	1	1	2C	1C	1C	2	2	1	1	1	1	3
Hydrofluosilicic Acid, 10%					1C	NR	1	1C	NR					1C	1C	1C							
Hydrofluosilicic Acid, 35%					1C	NR	1	2C	NR					2C	1C	1C							
Hydrogen Peroxide, 30%	2	3	2	3	1	1	1	1	NR	3	2	2	2	1	1	1	2	2	2	2	2	2	2
Hydrogen Sulfide, Gas					1	1	1	1	1				1	1	1	1							
Iodine, Crystals					1	1	1						2	1	1	1							
Isobutyl Alcohol	1		1						2		1	1					1	1	1	1	1	1	1
Isopropyl Alcohol	1		1		1	1	1	1	2		1	1	1	1	1	1	1	1	1	1	1	1	1
Jet Fuels	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Kerosene	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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Lacquer Solvents			NR														1	1	NR	NR		NR	1
Lactic Acid	2	2	2	2	1	1	1	1	1	2	2	2	2	1	1	1	3	3	2	2	2	2	3
Lauryl Chloride					1	1	1						1	1	1	1							
Lead Acetate					1	1	1	1	1				1	1	1	1							
Linseed Oil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lithium Bromide						1	1	1					1	1	1								
Lithium Chloride					1	1	1	1	1				1	1	1	1							
Lithium Hydroxide					NR	1	1						1	1	1	NR							
Lithium Hypochlorite						NR	1							1C	1C								
Magnesium Bisulfite						1	1	1					1	1	1								
Magnesium Carbonate					1	1	1	1	1				1	1	1	1							
Magnesium Chloride	1		1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Hydroxide	1		1			1	1	1	1		1	1	1	1	1		1	1	1	1	1	1	1
Magnesium Sulfate					1	1	1	1	1				1	1	1	1							
Maleic Acid	2				1	1	1	1	2	3	2	2	2	1	1	1					2		
Maleic Anhydride, 25% Slurry	1		1								1	1					1	1	1	1	1	1	1
Mercuric Chloride					1	1	1	1	1				1	1	1	1							
Mercurous Chloride					1	1	1	1					1	1	1	1							
Mercury					1	1	1	1	NR				1	1	1	1							
Methanol	3	3	3	3	NR	1	1			3	3	3	2	2	1	1	1	1	3	NR	3	NR	1
Methyl Acrylate			NR														3	3	NR	NR		NR	3
Methyl Alcohol					2	2	2	2*	NR				1	NR	2	2							
Methyl Ethyl Ketone	3	NR	NR	NR	NR	3	3	NR	NR	3	3	3	1	NR	3	NR	3	3	NR	NR	3	NR	3
Methyl Methacrylate			3														3	3	3	NR		NR	3
Methyl tert-Butyl Ether, 98%	1		1								1	1					1	1	1	1	1	1	1
Methylene Chloride	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1P	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Milk						1	1	1	1				1	1	1								
Mineral Spirits	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
Molasses						1	1	1	1				1	1	1								
Monochloroacetic Acid	3	3	3	3	NR	NR	NR			NR	3	3	2	NR	NR	NR	NR	NR	3	3	3	3	NR
Monoethanolamine					3	3	3	3					1	NR	3	3							
Motor Oil 10W/40	1		1								1	1					1	1	1	1	1	1	1
Muriatic Acid		2	2	2	1	1	1	1		1			1	1	1	1	NR	NR	2	2		2	NR
N-Butyl Acrylate			2														3	3	2	2		2	3
N-Butyl Alcohol			2														1	1	2	2		2	1
Naphtha	1	2	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Naphtha VM&P	1		1								1	1					1	1	1	1	1	1	1
Naphthalene	2	2	2	2	2	1	1		2	2	2	2	1	1	1	2	3	3	2	2	2	2	3
Naphthalene Oil	1		1								1	1					1	1	1	1	1	1	1
Nickel Plating Solution #1					1	1	1	1						1	1	1							
Nickel Plating Solution #2					1	1	1	1						1	1	1							
Nitric Acid, 10%	2S	NR	2	NR	1	1	1	1	3	2S	2S	2S	2S	1	1	1S	NR	NR	2	2	2S	2	NR
Nitric Acid, 20%	2S	NR	2	NR	1	2	2	2	NR	2S	2S	2S	2S	2	1	1S	NR	NR	2	3	2S	3	NR
Nitric Acid, 30%	3S	NR	3	NR	2					NR	3S	3S	3S			2S	NR	NR	3	3	3S	3	NR
Nitric Acid, 60%	NR	NR	NR	NR	2					NR	NR	NR	NR			2S	NR	NR	NR	NR	NR	NR	NR
Nitrobenzene						2	2	NR					1	NR	2								
Octanoic Acid					1	1	1	1					2	1	1	1							
Oleic Acid	2		1		1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	2	1	1
Oleum					NR	NR	NR	NR					3S	NR	NR	NR							
Oxalic Acid	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	2	1	1
Perchloric Acid, 10%	3	3	3	3	2	1	1		NR	2	3	3	2	1	1	2	3	3	3	3	3	3	3
Perchloroethylene	3	3	3	3	2	2	2	3	NR	2	3	3	1	3	2	2	3	3	3	3	3	3	3
Phenol, 5%	2	3	3	3	1	2	2	NR	NR	1	2	2	1	NR	2	1	NR	NR	3	3	2	3	NR
Phenol 85%	3	NR	NR	NR	NR	NR	NR	NR	NR	NR	3	3	2	NR	NR	NR	NR	NR	NR	NR	3	NR	NR
Phenolic Resins	1S		1								1S	1S					1	1	1	1	1S	1	1

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Phosphoric Acid, 50%	2S	2S	1S	2S	1	1	1	1	1	1S	2S	2S	2S	1	1	1	1S	1S	1S	2S	2S	2S	1S
Phosphoric Acid, 60%	3S	3S	3S	3S	1	1	1	1	1	3S	3S	3S	2S	1	1	1	2S	2S	3S	3S	3S	3S	2S
Phosphoric Acid, 75%	NR	NR	NR	NR	1	1	1	1	1	NR	NR	NR	3S	1	1	1	3S	3S	NR	3S	NR	3S	3S
Phosphoric Acid, 85%	NR	NR	NR	NR	1	1	1	1	1	NR	NR	NR	NR	1	1	1	NR	NR	NR	NR	NR	NR	NR
Phosphoric Acid, 100%	NR	NR	NR	NR	1	1	1	1	1	NR	NR	NR	NR	1	1	1	NR	NR	NR	NR	NR	NR	NR
Phosphorous Acid					1	2	2						2	2	2	1							
Phosphorous Trichloride					NR	NR	NR	NR					3	NR	NR	NR							
Phthalic Acid	2	3	3	3		1	1	1		2	2	2	1	1	1		NR	NR	3	3	2	3	NR
Pickling (20% nitric acid 4% HF)	1		1								1	1					3	3	1	1	1	1	3
Picric Acid, 10% (Alcoholic)					2	2	2	2	1	1				NR	2	2							
Potassium Bicarbonate					2	1	1	2	NR					1	1	2							
Potassium Carbonate, 1%	1	2	1	2	2	1	1	2	NR	1	1	1	1	1	1	2	1	1	1	1	1	1	1
Potassium Carbonate, 25%	2	2	2	2	2	1	1	2	NR	2	2	2	1	1	1	2	2	2	2	2	2	2	2
Potassium Chloride					1	1	1	1	1				1	1	1	1							
Potassium Dichromate					1	1	1	1	1				1	1	1	1							
Potassium Fluoride					2C	NR	1						1C	1C	1C	2C							
Potassium Hydroxide, 10%	1	1	1	1	NR	1	1	2	NR	1	1	1	1	1	1	NR	1	1	1	1	1	1	1
Potassium Hydroxide, 45%	1	1	1	1	NR	NR	1	3	NR	2	1	1	1	1C	1C	NR	1	1	1	1	1	1	1
Potassium Nitrate					1	1	1	1	1				1	1	1	1							
Potassium Permanganate	2		3		2	1	1	1	1		2	2	2	1	1	2	NR	NR	3	3	2	3	NR
Potassium Persulfate					2	1	1	1	1				1	1	1	2							
Potassium Sulfate					1	1	1	1	1				1	1	1	1							
Proprionic Acid, 50%						1	1						2	1	1								
Proprionic Acid, 100%					NR	2	2						3	NR	2	NR							
Propylene Glycol	1		1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Pyridine		NR		NR	NR	NR	NR	NR	NR	NR			3	NR	NR	NR							
Salicylic Acid						1	1	1					1	1	1								
Salt Brine					1	1	1	1	1				1	1	1	1							
Sea Water					1	1	1	1	1				1	1	1	1							
Selenious Acid						1	1	1						1	1								
Silver Nitrate					1	1	1	1	1				1S	1	1	1							
Skydrol 500B	1	1	1	1	1	2	2			2	1	1	1		2	1	2	2	1	2	1	2	2
Soap Solutions			1														3	3	1	1		1	3
Sodium Acetate					1	1	1	1	1				1	1	1	1							
Sodium Bicarbonate	1	1	1	1	2	1	1	1	NR	1	1	1	1	1	1	2	1	1	1	1	1	1	1
Sodium Bisulfate		1		1	1	1	1	1	1	1			1	1	1	1							
Sodium Bromate						1	1						1	1	1								
Sodium Carbonate		1		1	2	1	1	2	NR	1			1	1	1	2							
Sodium Chlorate					1	1	1	1	NR				2	1	1	1							
Sodium Chloride	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Chlorite					2	1	1	2	NR				2	1	1	2							
Sodium Cyanide	1		1		2	1	1	2	NR		1	1	1	1	1	2	2	2	1	1	1	1	2
Sodium Dichromate						1	1	1	1				1	1	1								
Sodium Fluoride						NR	1						1C	1C	1C								
Sodium Hydrosulfide					1	1	1	1					2	1	1	1							
Sodium Hydroxide, 10%	1	2	1	2	NR	1	1	2	3	1	1	1	1	1	1	NR	2	2	1	1	1	1	2
Sodium Hydroxide, 25%	1	2	1	2	NR	NR	1	NR	NR	1	1	1	1	1C	1C	NR	2	2	1	1	1	1	2
Sodium Hydroxide, 50%	1	2	1	2	NR	NR	1	NR	NR	1	1	1	1	1C	1C	NR	2	2	1	1	1	1	2
Sodium Hypochlorite, 5%	2		2		2C	NR	2		3	2	2	2		1C	1C	2C	NR	NR	2	2	2	2	NR
Sodium Hypochlorite, 8%	2		2							2	2	2					NR	NR	2	2	2	2	NR
Sodium Hypochlorite, 10%		2		2	2C	NR	2		NR	3				1C	1C	2C							
Sodium Hypochlorite, 18%						NR	1		NR					1C	1C								
Sodium Lauryl Sulfate					2	1	1	2					1	1	1	2							
Sodium Oxalate						1	1						1	1	1								
Sodium Phosphate					1	1	1						1	1	1	1							

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Sodium Phosphate (Tri)					2	1	1	1	NR				1	1	1	2							
Sodium Sulfate		1		1	2	1	1	1	1	1			1	1	1	2							
Sodium Sulfide	1	1	1	1	NR	1	1	1	2	1	1	1	1	1	1	NR	1	1	1	1	1	1	1
Sodium Sulfite					1	1	1	1	2				1	1	1	1							
Sodium Tartrate						1	1						1	1	1								
Sodium Thiosulfate						1	1	2	2				1	1	1								
Sorbitol Solutions						1	1	1	1					1	1								
Soybean Oil					1	1	1	1	1				1	1	1	1							
Stannic Chloride					2	1	1	1	1				1	1	1	2							
Stannous Chloride					1	1	1	1	1				1	1	1	1							
Stearic Acid	1		1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Styrene	3		NR		NR	2	2	NR	NR		3	3	1	NR	2	NR	NR	NR	NR	NR	3	NR	NR
Sugar/Sucrose						1	1	1		1			1	1	1								
Sulfamic Acid					1	1	1	1	1				2	1	1	1							
Sulfite Liquor (Pulp)					1	1	1	1	1				1	1	1	1							
Sulfur Dioxide (Dry or Wet)					1	1	1	1					1	1	1	1							
Sulfuric Acid, 10%					1	1	1	1	1				1	1	1	1							
Sulfuric Acid, 20%	2		1								2	2	1				1	1	1	1	2	1	1
Sulfuric Acid, 25%	2	1		1	1	1	1	1	1	1s	2	2	1	1	1	1					2		
Sulfuric Acid, 50%	2s		1		1	1	1	1	2	1s	2s	2s	1s	1	1	1	3	3	1	1	2s	1	3
Sulfuric Acid, 66%	2s	3	1	3						1s	2s	2s	1s				NR	NR	1	1	2s	1	NR
Sulfuric Acid, 75%	2s	NR		NR	2	1	1	2	NR	1s	2s	2s	1s	2	1	2					2s		
Sulfuric Acid, 98%	2s	NR		NR	NR	3s	3s	NR	NR	NR	2s	2s	2s	NR	3s	NR					2s		
Sulfurous Acid, 10%					1	1	1	2	3					1	1	1							
Sulfur Trioxide					2	1	1	1	1				1	1	1	2							
Tall Oil					1	1	1	1					1	1	1	1							
Tetrachloroethane						2	2						1	NR	2								
Tetrachloroethylene					2	2	2	2	NR				1	3	2	2							
Tetrahydrofuran	NR		NR								NR	NR					NR	NR	NR	NR	NR	NR	NR
Tetrahydrofurfuryl Alcohol			2														NR	NR	2	3		3	NR
Tobias Acid						1	1							1	1								
Toluene	1	3	3	3	3	2	2	NR	NR	1	1	1	1	3	2	3	3	3	3	3	1	3	3
Toluene Sulfonic Acid						1	1	1					1	1	1								
Trichloracetic Acid					1	1	1	1		2			2	1	1	1							
1,1,1, Trichloroethane	1	2	2	2	NR					2	1	1	1			NR	3	3	2	2	1	2	3
Trichloroethylene	2	3	2	3	NR	NR	NR	3	NR	3	2	2	1P	NR	NR	NR	NR	NR	2	2	2	2	NR
Tricresyl Phosphate						2	2						1	2	2								
Triethylamine						2	2	2					2	2	2								
Trisodium Phosphate		1		1	1	1	1	1		1			1	1	1	1							
Triton X100	1		1								1	1					2	2	1	1	1	1	2
Turpentine					2	1	1		1				1	2	1	2							
Urea		1		1	1	1	1	2	2	1			1	1	1	1							
Urea, 10%	1		1								1	1					1	1	1	1	1	1	1
Urea Ammonium Nitrate, 32%	1		1								1	1					1	1	1	1	1	1	1
Vinegar		1		1	1	1	1	1	1	1			1	1	1	1							
Vinylidene Chloride			NR										2				3	3	NR	NR		NR	3
Vinyl Acetate			NR														2	2	NR	NR		NR	2
Vinyl Chloride						NR	NR						2	NR	NR								
Water, Deionized					1	1	1	1					1	1	1	1							
Water, Demineralized					1	1	1	1	1				1	1	1	1							
Water, Distilled					1	1	1	1	1				1	1	1	1							
Water Tap	1		1							1	1	1					1	1	1	1	1	1	2
White Liquor (Pulp)					1	1	1	1					1	1	1								
Wine		1		1		1	1	1		1			1	1	1								
Xylene	1	2	2	2	2	2	2	2	3	1	1	1	1	3	2	2	3	3	2	2	1	2	3

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Zinc Chloride	1		1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
Zinc Nitrate, 17%	1	2	1	2						1	1	1					1	1	1	1	1	1	1
Zinc Sulfate					1	1	1	1	1				1	1	1	1							

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