

Legend (A) = Satisfactory (B) = Slight Attack (C/NR) = Not Recommended (~) = No Data (1) = Good to 72 °F, 22 °C (2) = Good to 120 °F, 48 °C	316 SS	PPS	Hastelloy-C	Titanium	Alloy 20	Waukesha 88	PPS	SSM	PEEK	PTFE (Teflon)	LCP	Carbon	Viton	PTFE (Teflon)	Buna-N	EPDM	Neoprene	Silicone Rubber	Kal-Rez	Ceramic Magnet
	Chemicals																			
	Body					Gears and Bearings						O-Rings								
Acetaldehyde	A	A	A	A	A	A	A	A	A	A	~	A	NR	A	NR	A	C	A	A	~
Acetamide	A	A	A	~	A1	~	A	A	~	A	~	A	B	A	A	A	B	B	A	~
Acetate Solvent	A	A	A	A	A	~	A	A	~	A	~	A	NR	A	C	A	NR	C	A1	~
Acetic Acid	B	A	A	A	A	~	A	A	~	A	~	A	B	A	C	A	C	C	A	~
Acetic Acid 20%	A	A	A	A	A	~	A	A	A	A	~	A	B	A	B	A	A	B	A	A
Acetic Acid 80%	B	A	A	A	A	~	A	A	A	A	~	A	B	A	C	A	C	B	A	A
Acetic Acid, Glacial	A	A	A	A	A	~	A	A	A	A	A	A	NR	A	C	B	NR	B	A2	A
Acetic Anhydride	A	A	A	A	B	B	A	A	~	A	~	A	NR	A	NR	B	A	C	A	~
Acetic Vapors	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Acetone	A	A	A	A	A	A	A	A	A	A	A	A	NR	A	NR	A	C	B	A	~
Acetonitrile	~	A	~	~	~	A	A	A	A	~	~	~	~	~	~	~	~	~	~	~
Acetophenone	~	B	~	~	~	~	B	B	~	~	~	~	~	~	~	~	~	~	~	~
Acetyl Bromide	~	~	~	~	~	~	~	~	~	A	~	~	~	A	~	~	~	~	~	~
Acetyl Chloride (dry)	A	A	A	~	B	A	A	A	~	A	~	A	A	A	NR	NR	NR	C	A	~
Acetylene	A	A	A	~	A	B	A	A	A	A	~	A	A	A	B	A	B	B	A	~
Acrylic Acid	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Acrylonitrile	A1	~	B	A	A1	~	~	~	~	A	~	B	NR	A	NR	NR	C	NR	~	~
Adhesives (not cyanoacrylates)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Adipic Acid	A2	~	A1	A	~	~	~	~	~	A	~	A2	A2	A	C	A2	C	~	~	~
Alcohol: 2-Aminoethanol	~	A	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Aliphatic Esters	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Aluminum Chloride	B	A	A	B	B1	~	A	A	A	A	~	A	A	A	A	A	A	B	A	~
Aluminum Chloride 20%	C1	A	A	B	C1	~	A	A	A	A	~	A	A	A	A	A	A	B	A	B
Aluminum Fluoride	NR	A	B	A	C	~	A	A	~	A	~	A	A	A	A	A	A	B	~	B
Aluminum Fluoride 5%	~	~	~	~	~	NR	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Aluminum Hydroxide	C1	~	B	B1	A1	A	~	~	~	A	~	A	A	A	A	A	A	A1	A1	~
Aluminum Nitrate	A	~	~	A	A1	~	~	~	~	A	~	A2	A2	A	A2	A2	A1	B1	A1	~

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	Chemicals																				
	Body					Gears and Bearings							O-Rings								
Aluminum Potassium Sulfate	B2	~	C	A	B	NR	~	~	~	A	~	A	A	A	A	A	A	A	A	~	
Aluminum Potassium Sulfate 10%	A	~	C	A	A	NR	~	~	~	A	~	A	A	A	A	A	A	A	A	~	
Aluminum Sulfate	B2	A	B	A	B	A1	A	A	A	A	~	A	A	A	A	A	A	A	A	~	
Alums	A	~	B	A	A	~	~	~	A	A	~	~	A	A	A	A1	B	A1	~	~	
Amines	A	B	B	B	B	~	B	B	~	A2	~	A	NR	A2	NR	B	B	B	A	~	
Ammonia 10%	A	A1	A	C	A1	~	A1	A1	~	A	~	A	NR	A	A	A	A	~	A	~	
Ammonia 880	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Ammonia-anhydrous	A2	A1	B	C	A	A	A1	A1	A	A	~	A	NR	A	B	A	A	C	A	~	
Ammonia-aqueous	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Ammonia-liquid	A2	A1	B	C	B2	A1	A1	A1	~	A	~	A	NR	A	C	A	A	~	A	~	
Ammonia Nitrate	A	A	~	A	A	~	A	A	~	A	~	~	NR	A	C	A	C	~	~	~	
Ammonium Acetate	A	~	A	~	A1	~	~	~	~	A	~	~	A	A	B	A	A	~	~	~	
Ammonium Bifluoride	B1	~	B	NR	B	~	~	~	~	A	~	A	A	A	B	A2	NR	~	~	~	
Ammonium Carbonate	B	A	B	A	B	A	A	A	~	A	~	A	A	A	B	A	A	C	~	A	
Ammonium Caseinate	~	~	~	~	~	~	~	~	~	~	~	~	A	~	~	~	A	~	~	~	
Ammonium Chloride	B2	A	NR	B	B	NR	A	A	~	A	~	A	A	A	B	A	B	C	A	A	
Ammonium Chloride 10%	~	~	~	~	~	NR	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Ammonium Hydroxide	A1	A	B	A	A	NR	A	A	A	A	~	A	B	A	NR	A	A	A	A	A	
Ammonium Nitrate	A	A	B	A	A	A	A	A	A	A	~	A	A	A	A	A	B	C	A	~	
Ammonium Oxalate	A	~	A	~	A	A	~	~	~	A	~	~	~	A	NR	A	A	~	~	~	
Ammonium Persulfate	B	~	B	A	B	A	~	~	~	A1	~	A	A	A1	A	B	A	NR	A	A	
Ammonium Phosphate, Dibasic	C	A	B	A	A1	~	A	A	~	A2	~	A	A	A2	A	A	A	A	A	~	
Ammonium Phosphate, Monobasic	C	~	B	A	C	~	~	~	~	A	~	~	A	A	A	A	A	A	~	~	
Ammonium Phosphate, Tribasic	B	~	B	A	A1	~	~	~	~	A	~	~	A	A	A	A	A	A	~	~	
Ammonium Sulfate	B	A	B	A	B	B	A	A	~	A	~	A	A	A	A	A	A	A	A	A	
Ammonium Sulfite	B	~	~	~	A	~	~	~	~	A2	~	NR	NR	A2	A1	A1	A1	~	A2	~	
Ammonium Thiosulfate	A	~	~	A	~	~	~	~	~	A1	~	~	A	A1	A	A1	A	~	~	~	

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Amyl Acetate	A	A	A	A	A	NR	A	A	A	A	~	A	NR	A	NR	A	NR	NR	A1	~
Amyl Alcohol	A	A	A	B	A	A	A	A	~	A	~	A	NR	A	B	A	B	NR	A	~
Amyl Chloride	A2	~	A1	C	A2	NR	~	~	~	A	~	A	B1	A	NR	NR	NR	NR	A	~
Aniline	B	A	B	C	A	A	A	A	A	A	~	A	A	A	NR	B	NR	B	A2	~
Aniline Hydrochloride	NR	~	NR	A	B	~	~	~	~	A	~	NR	A	A	NR	B	NR	NR	~	~
Aniline Hydrochloride 5%	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Aniline Oil	A	~	B	NR	A	~	~	~	~	A	~	~	C	A	NR	B	NR	NR	~	~
Anise Oil	A	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	NR	~	~	~
Antifreeze	A	~	A1	~	A	~	~	~	~	A1	A	~	A	A1	A	A	C	C	~	~
Antimony Trichloride	NR	~	A1	B	B	NR	~	~	A	A	~	~	A2	A	B	B1	~	~	A	~
Apple Juice	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Aqua Regia (80% HCl, 20% HNO3)	NR	NR	C	A1	NR	~	NR	NR	C	A	~	NR	B	A	NR	C	NR	NR	A	C
Arochlor 1248	B	~	A	A1	~	~	~	~	~	A	~	~	A	A	C1	B	NR	B	A1	~
Aromatic Hydrocarbons	C	~	~	~	~	~	~	~	~	~	~	~	A	~	NR	NR	NR	NR	~	~
Aromatic Solvents	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Arsenic Acid	A2	A	B	B	A1	NR	A	A	~	A	~	A	A2	A	A2	A2	A	A	~	~
Arsenic Salts	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	A	~	~
Asphalt	A	A	A	A1	A	A1	A	A	~	A1	~	A	A	A1	B	NR	NR	NR	A	~
Asphalt Emulsions	~	A	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Aviation Hydraulic Fluid	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Aviation Spirit	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Barium Carbonite	B	A2	B	A	B1	A	A2	A2	~	A	~	A	A	A	A2	A	~	~	A	A
Barium Chloride	A1	A	B	A	B	B	A	A	~	A	~	A	A	A	A	A	A	A	A	A
Barium Cyanide	A2	~	A	~	A1	~	~	~	~	A1	~	~	A	A1	C	A	C	~	~	~
Barium Hydroxide	B	A	B	B	B1	A1	A	A	~	A	~	A	A	A	A	A	A	A	A	A
Barium Nitrate	B	~	~	A	B	A	~	~	~	A1	~	A	A	A1	A2	A	A	B	A	~
Barium Salts (Chloride, Sulfide)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Barium Sulfate	B1	A	A	B	B	A	A	A	~	A	~	A	A	A	A	A	A	A	A	A
Barium Sulfide	B2	~	~	A	A1	~	~	~	~	A	~	A	A	A	A	A	A	A	~	A

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	Chemicals	Body				Gears and Bearings							O-Rings								
Bay Oil	A	~	~	~	A	~	~	~	~	~	~	~	A	~	~	~	NR	~	~	~	
Beer	A	A2	A1	B	A	~	A2	A2	A	A	~	A	A	A	A	A	A	A	A	A	A
Beet Sugar Liquids	A	~	A1	A	A	A1	~	~	~	A1	~	A	A	A1	A	A	A	A	A	A	~
Benzaldehyde	B	A	A	A	A	A1	A	A	A	A1	~	A	NR	A1	NR	A	NR	NR	NR	A	A
Benzene	B	A	B	A	A	A	A	A	A	A	~	A	A	A	NR	NR	NR	NR	NR	B	A
Benzene Sulfonic Acid	B	A	B	B	A	A	A	A	A	A	~	A	A	A	NR	NR	A	NR	~	~	
Benzoic Acid	B	A1	B1	A	B	~	A1	A1	A	A2	~	A	A	A2	NR	NR	B	B	A	A	
Benzoic Acid 5%	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	
Benzol	A1	A	B	A	A	~	A	A	~	A	~	A	A	A	NR	NR	NR	NR	A	A	
Benzonitrile	NR	A	C	~	~	~	A	A	~	A2	~	A	~	A2	~	~	~	A1	A2	~	
Benzyl Alcohol	B	A	A	A	A	~	A	A	A	A	~	~	A	A	NR	B	C	~	A	~	
Benzyl Chloride	B1	A	C	~	~	~	A	A	~	A	~	A1	A2	A	NR	NR	NR	NR	~	~	
Bleach	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Bleaching Liquors	~	~	~	A	~	~	~	~	~	A	~	~	A	A	NR	A	NR	B	~	~	
Blood	~	~	~	A	~	A1	~	~	~	~	~	~	~	~	~	~	~	~	~	~	
Bone Oil	A	~	~	~	A	~	~	~	~	A	~	~	A	A	A	~	NR	~	~	~	
Borax (Sodium Borate)	A	A	B	B	A	A	A	A	~	A	~	A	A	A	B	A	A	B	A	A	
Boric Acid	A1	A	A	A	B2	A	A	A	A	A	~	A	A	A	A	A	NR	A	A	A	
Brake Fluid (Mineral)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Brake Fluid (Polyglycol)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Brewery Slop	A	~	~	~	A	~	~	~	~	~	~	~	A	~	A	~	A	~	~	~	
Brine	~	~	~	~	~	A1	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Bromine	NR	NR	A	NR	NR	~	NR	NR	C	A	~	NR	A	A	NR	NR	NR	NR	A	A	
Bromine (dry)	~	~	~	~	~	~	~	~	C	~	~	~	~	~	~	~	~	~	~	~	
Bromine (wet)	~	NR	~	~	~	NR	NR	NR	C	~	~	~	~	~	~	~	~	~	~	~	
Bromine Water, Saturated	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Butadiene	A1	A1	C	~	A	A	A1	A1	~	A2	~	A	B	A2	NR	C	B	NR	A	~	
Butane	A2	A	A	A	A	A	A	A	A	A	~	A	A	A	A	NR	A	NR	A	~	
Butanol (Butyl Alcohol)	A1	A	B	B	A	~	A	A	A	A2	~	A	A	A2	A	A	A	B	A1	~	
Butter	A	~	A	A1	A	A1	~	~	~	A	~	~	A	A	A	A	B	B	~	~	
Buttermilk	A	~	A	~	~	~	~	~	~	A	~	A	A	A	A	A1	NR	A	A	~	

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Butyl Acetate	A	A	A	A	B1	NR	A	A	A	A	~	A	NR	A	NR	B	NR	NR	A1	~
Butyl Alcohol	A	A	A	A	A	A1	A	A	~	A	~	A	A	A	C	B	C	B	~	~
Butyl Amine	A	NR	B2	B2	~	A	NR	NR	~	A2	~	A2	NR	A2	~	~	NR	B1	NR	~
Butyl Ether	A1	A2	~	~	~	A	A2	A2	~	A1	~	A1	NR	A1	B2	NR	NR	NR	A1	~
Butyl Phthalate	B2	A	B2	B	A1	~	A	A	~	A2	~	A2	C1	A2	NR	B2	NR	A1	A1	~
Butylene	A	A	A1	~	A	A	A	A	~	A	~	A	A	A	A	NR	NR	NR	B1	~
Butyric Acid	B2	A	A1	A	B	~	A	A	~	A2	~	A	B1	A2	NR	B	NR	NR	A	A
Butyric Acid 5%	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Calcium Bisulfate	A	~	~	~	~	~	~	~	~	A1	~	~	A1	A1	A	A	A	C	~	~
Calcium Bisulfide	B	~	A	A	B	~	~	~	A	A	~	~	A	A	A1	C	A	C	A	A
Calcium Bisulfite	A	A	B	A	B1	~	A	A	~	A	~	A	A	A	A	NR	A	A	A	A
Calcium Carbonate	B	~	B	B	B1	A1	~	~	A	A	~	A	A	A	A	A	A	A	~	~
Calcium Chlorate	B	~	B1	A	B1	~	~	~	~	A	~	~	A	A	A	A	~	~	~	~
Calcium Chloride	B2	A	A	A	B	~	A	A	A	A	~	A	A	A	A	A	A	A	A	A
Calcium Hydroxide	B	A	A	A	B	~	A	A	A	A	~	A	A	A	A	A	A	A	A	A
Calcium Hypochlorite	B1	A	B	A1	C	~	A	A	A	A	~	A	A	A	C1	B1	NR	B	B1	A
Calcium Nitrate	B2	A	B2	B2	~	~	A	A	A	A2	~	A2	A2	A2	A2	A2	A2	B1	A1	~
Calcium Oxide	A	A	A	A	A	~	A	A	~	A	~	~	B	A	A	A	A	A	~	~
Calcium Sulfate	B	A	B	A	B1	~	A	A	A	A	~	A	A	A	A2	A	B	~	A	A
Calgon	A	~	~	~	~	~	~	~	~	~	~	~	A	~	A	A	A	A	~	~
Cane Juice	A	~	~	~	A	A1	~	~	~	A	~	~	A	A	A	A	A	A	~	~
Carbolic Acid (Phenol)	B	A	A	A	C	A	A	A	A	A	~	A	A	A	NR	B	NR	NR	B	~
Carbon Bisulfide	B	~	~	~	B	~	~	~	~	A	~	~	A	A	C	NR	NR	NR	~	~
Carbon Dioxide	A1	A	A	A	A	~	A	A	~	A	~	A	B	A	A	B	B	B	A	~
Carbon Dioxide (dry)	A1	A	A	A	A	~	A	A	A	A	~	A	B	A	A	B	B	B	A	~
Carbon Dioxide (wet)	A1	A	A	A	A	~	A	A	~	A	~	A	B	A	A	B	B	B	A	~
Carbon Disulfide	B	A	B	B	B	A1	A	A	A	A	~	A	A1	A	NR	NR	NR	~	A	~
Carbon Monoxide	A	~	B	~	B	~	~	~	A	A	~	A	A	A	A	A	B	A2	A1	~
Carbon Tetrachloride	B	A	A1	A	B	A1	A	A	A	A	~	A	A	A	NR	NR	NR	NR	A1	A
Carbon Tetrachloride (dry)	B2	A2	B	A2	B	~	A2	A2	A	A	~	A2	A2	A	C1	B1	NR	NR	NR	A

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	Chemicals	Body				Gears and Bearings							O-Rings							
Carbon Tetrachloride (wet)	A2	A2	B	A2	A	~	A2	A2	~	A	~	A2	~	A	NR	NR	NR	NR	A1	~
Carbonated Water	A	~	A	~	C	A1	~	~	~	~	~	A	A	~	A	~	A	~	~	~
Carbonic Acid	A	A	A2	B1	A	~	A	A	A	A	~	A	A	A	NR	B	NR	A	A	~
Castor Oil	A	~	A1	A	A	A1	~	~	~	A	~	~	A	A	B	B	A	A	~	A
Catsup	A	~	A1	~	C	A1	~	~	A	~	~	~	A	~	A	A	A	~	~	~
Cellosolves	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Chloric Acid	C1	~	A2	~	A1	~	~	~	~	A	~	NR	~	A	~	~	~	~	A	~
Chlorinated Glue	A	~	~	~	A	~	~	~	~	~	~	~	A	~	B	B	NR	~	~	~
Chlorine Water	C1	NR	A2	A	A2	~	NR	NR	~	A	A	A	A	A	NR	C	NR	NR	A	A
Chlorine (dry)	B	NR	A2	NR	A	~	NR	NR	C	A	~	A	A	A	B	A	C	NR	NR	~
Chlorine (Wet)	~	~	~	~	~	~	~	~	C	~	~	~	~	~	~	~	~	~	~	~
Chlorine (gas-dry)	~	~	~	~	~	A1	~	~	~	~	A	~	~	~	~	~	~	~	~	~
Chlorine (gas-wet)	~	~	~	A	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Chlorine, Anhydrous Liquid	C1	NR	NR	NR	NR	~	NR	NR	~	A	~	A	A	A	NR	B	NR	NR	B2	C
Chloroacetic Acid	A1	A	A1	A1	B1	~	A	A	A	A	~	A	NR	A	NR	B	NR	NR	A2	~
Chlorobenzene (dry)	~	A	~	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~
Chlorobenzene (Mono)	B	A	A	B	A	~	A	A	A	B	~	A	A	B	NR	NR	NR	NR	A1	A
Chlorobromomethane	A	~	~	~	A1	~	~	~	~	A	~	~	A	A	NR	B	NR	NR	~	~
Chloroethanol (2-Chloroethanol)	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Chloroform	A	A	A1	A2	A	C	A	A	A	A1	~	A	A	A1	NR	NR	NR	NR	B1	A
Chlorohydroxide (wet)	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Chlorophenol, 5% Aqueous	~	A	~	~	~	~	A	A	C	~	~	~	~	~	~	~	~	~	~	~
Chlorosulfonic Acid	B2	NR	A1	A	NR	~	NR	NR	C	A	~	A	NR	A	NR	NR	NR	NR	A2	~
Chocolate Syrup	A	~	B	~	NR	A1	~	~	~	A	~	~	A	A	A	A	A	~	~	~
Chromic Acid 5%	A	A	B	A	NR	~	A	A	~	A	~	A	A	A	NR	A	NR	C	A	A
Chromic Acid 10%	B	A	A	B	NR	~	A	A	~	A	~	A	B	A	NR	C	NR	C	A	~
Chromic Acid 30%	B2	B	NR	A	NR	~	B	B	~	A	~	A	A	A	NR	B	NR	C	A	~
Chromic Acid 50%	B2	A1	B	A2	NR	~	A1	A1	C	A	~	A1	A	A	NR	B	NR	C	A2	A

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	Chemicals	Body				Gears and Bearings							O-Rings								
Chromic Acid 100%	~	C	~	~	~	~	C	C	~	~	A	~	~	~	~	~	~	~	~	~	
Chromium Salts	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	
Cider	A	~	A1	~	A	~	~	~	~	A	~	~	A	A	A	A	A	B1	~	A	
Cinnamon Oil	A	~	~	~	A	~	~	~	~	A	~	~	A	A	~	~	C	~	~	~	
Citric Acid	A2	A	A	A2	B	A	A	A	A	A	~	A	A	A	A	A	A	A	A	A2	A
Citric Oils	A	~	A	~	NR	~	~	~	~	A	~	~	A	A	NR	B	NR	C	~	~	
Clorox (Bleach)	A	NR	A	B	NR	~	NR	NR	~	A	~	~	A	A	NR	B	B	B1	NR	~	
Clove Oil	A	~	A	~	A	~	~	~	~	A	~	~	A	A	A	~	C	~	~	~	
Coconut Oil	A	~	A	~	A	~	~	~	~	A	~	~	A	A	A	NR	C	A	~	~	
Cod Liver Oil	A	~	A	~	A	~	~	~	~	A	~	~	A	A	A	A	B	B	~	~	
Coffee	A	~	A	A	NR	A1	~	~	~	~	~	~	A	~	A	A	A	A	~	~	
Cooking Oil	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Copper Acetate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Copper Carbonate	~	~	~	A	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Copper Chloride	NR	A	A	B	NR	~	A	A	A	A	~	~	A	A	A	A	A	A1	A	A	
Copper Cyanide	B	A	A1	B	B	~	A	A	A	A	~	A	A	A	A	A	A	A	~	A	
Copper Fluoborate	NR	~	B	~	NR	~	~	~	~	A1	~	~	A	A1	B	~	A	~	~	~	
Copper Fluoride	A	~	A	A	NR	~	~	~	A	~	~	~	A	~	A	A	A	A	~	~	
Copper Nitrate	A2	A	B2	B	A	~	A	A	A	A	~	A	A	A	A	A	A	~	A	A	
Copper Sulfate 5%	B	A	A	A	A	~	A	A	A	A	~	A	A	A	A	A	A	A	A	A	
Copper Sulfate (> 5%)	B	A	A	A	B	~	A	A	A	A	~	A	A	A	A	A	A	A	A	A	
Corn Oil	A	~	A	~	C	~	~	~	~	A	~	~	B	A	NR	C	A	A	~	~	
Cottonseed Oil	A	A	A	A	A	A1	A	A	~	A	~	A	A	A	A	NR	C	A	A2	~	
Cream	A	~	~	~	NR	~	~	~	~	A	~	~	A	A	A	~	NR	~	~	~	
Creosols	A	A	B2	B	A2	A1	A	A	~	A	~	A	A	A	NR	NR	NR	NR	A1	~	
Creosote	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Creosote Oil	B	~	B	A	C	~	~	~	~	A	~	A	A	A	NR	NR	C	NR	A	~	
Cresyldiphenyl Phosphate	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~	
Cresylic Acid	A	~	B1	A1	A	~	~	~	~	A	~	A	A	A	NR	NR	NR	NR	~	~	
Crude Oil	~	A	~	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~	
Cupric Acid	B2	A	A1	A2	~	~	A	A	~	A	~	A2	A2	A	B2	A2	A2	A1	A2	~	

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	Chemicals	Body				Gears and Bearings							O-Rings							
Cupric Chloride	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Cupric Fluoride	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Cupric Sulfate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Cuprous Chloride	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Cyanic Acid	A	~	~	~	NR	~	~	~	~	A	~	A	A	A	C	A	C	A1	~	~
Cyclohexane	A	A	B	A	A2	~	A	A	A	A	~	A	A	A	B	NR	NR	NR	A	A
Cyclohexanol	~	A	~	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~
Cyclohexanone	A2	A	A1	~	A1	~	A	A	A	A	~	A	NR	A	NR	B	NR	NR	A1	A
Detergents	A1	A	B	A2	A2	A1	A	A	A	A	~	A	A	A	A	A	B	A	A	A
Diacetone Alcohol	A	~	A	A	A	~	~	~	~	A	~	A	NR	A	NR	A	NR	NR	B1	~
Dibromoethane	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Dibutyl Phthalate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Dichlorobenzene	B1	~	A1	~	A1	~	~	~	A	A	~	A2	C	A	NR	NR	NR	NR	~	~
Dichloroethane	B	~	A	B1	A	~	~	~	A	A1	~	A	C	A1	NR	NR	NR	NR	A2	~
Dichloroethane (1,2-)	~	~	~	~	~	~	~	~	B	~	~	~	~	~	~	~	~	~	~	~
Diesel Fuel	A1	A	B	B	A	~	A	A	~	A	~	A	A	A	A	NR	B	NR	A1	~
Diesel Fuel Oil (20,30,40,50)	A	A	B	B	A	~	A	A	~	A	~	A	A	A	A	NR	B	NR	~	~
Diesel Oil	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Diethyl Ether	B2	A	B1	A1	A	~	A	A	A	A	~	A2	NR	A	NR	NR	NR	NR	C	~
Diethylamine	A	~	A	A	A	~	~	~	A	NR	~	A	A	NR	C	B	A	B	A	~
Diethylene Glycol	A	~	B1	A1	A	~	~	~	~	A2	~	A2	A2	A2	A2	A2	A2	B1	~	~
Diisobutylene	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Dimethyl Aniline	B2	A	B2	A2	~	~	A	A	~	A	~	A2	NR	A	NR	B2	NR	NR	A2	~
Dimethyl Formamide	B	A	A	~	~	~	A	A	A	NR	A	~	C	NR	NR	B	NR	C	A	~
Dimethyl Phthalate	~	A	~	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~
Dimethyl Sulfoxide (DMSO)	~	A	~	~	~	~	A	A	B	~	~	~	~	~	~	~	~	~	~	~
p-Dioxane	~	A	~	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~
Diphenyl	B	~	B	B	A	~	~	~	~	A	~	~	A2	A	NR	NR	B	NR	B1	~
Diphenyl Ether	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Diphenyl Oxide	A	A	B1	A1	A	~	A	A	~	A1	~	~	A	A1	A	NR	NR	C	~	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Diphenylsulfone (DPS)	~	~	~	~	~	~	~	~	B	~	~	~	~	~	~	~	~	~	~	~
Dowtherm A	~	A	~	~	~	~	A	A	C	~	~	~	~	~	~	~	~	~	~	~
Dowtherm G	~	A	~	~	~	~	A	A	B	~	~	~	~	~	~	~	~	~	~	~
Dowtherm HT	~	A	~	~	~	~	A	A	B	~	~	~	~	~	~	~	~	~	~	~
Dowtherm LF	~	A	~	~	~	~	A	A	B	~	~	~	~	~	~	~	~	~	~	~
Dyes, water based	A	~	~	~	C	~	~	~	~	~	~	~	A	~	NR	~	C	~	~	~
Edible Fats/Oils	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Epchlorohydrin (dry)	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Epsoms Salts (Magnesium Sulfate)	B	A	B	A1	C	A1	A	A	~	A	~	A	A	A	A	A	A	A	A	~
Ethane	A1	~	~	~	A	~	~	~	A	A	~	A	A	A	A	NR	B	NR	~	~
Ethanol	A	~	A	A	A	~	~	~	A	A	A	A	A	A	C	A	A	B	A	~
Ethanolamine	A	A	B	B	A	A	A	A	~	A	~	A	NR	A	B	B	B	B	NR	~
Ether	A	A	B1	A1	A	~	A	A	A	A	~	A	C	A	NR	C	NR	NR	B1	~
Ethyl Acetate	B	A	A	A1	A	~	A	A	A	A	A	A	NR	A	NR	B	NR	B	A1	~
Ethyl Alcohol	A	~	A	A	A	C1	~	~	~	A	~	A	A	A	C	A	A	B	A	~
Ethyl Benzoate	A	~	~	~	~	~	~	~	~	A	~	~	A1	A	NR	NR	NR	NR	~	~
Ethyl Chloride	A	A	B1	A	A	~	A	A	~	A	~	A	A	A	A	A	C	NR	B1	~
Ethyl Ether	B	A	B1	A1	A	~	A	A	~	A	~	A2	NR	A	NR	NR	NR	NR	A1	~
Ethyl Sulfate	NR	~	A	~	A	~	~	~	~	A	~	A	A	A	A	A	~	A1	A	~
Ethylene Bromide	A	~	B	B	A1	~	~	~	~	A	~	A	A	A	NR	C	C	NR	B1	~
Ethylene Chloride	B	A	A	B1	A	~	A	A	~	A	~	A	B	A	NR	NR	NR	NR	A1	A
Ethylene Chlorphydrin	B	A	B	B	~	~	A	A	~	A	~	A	A	A	NR	B	A	C	~	~
Ethylene Diamine	B	A	C	A	~	~	A	A	~	A	A1	~	B	A	A	A	B	A	NR	~
Ethylene Dichloride	B	A	B	B	C	~	A	A	A	A	~	A	A	A	NR	C	NR	NR	A1	~
Ethylene Glycol	A	A	B1	A1	A	A1	A	A	A	A	~	A	A	A	A	A	A	A	A	A
Ethylene Nitrate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Ethylene Oxide	B	NR	A	~	A	~	NR	NR	A	A	~	A	NR	A	NR	C	NR	NR	A	~
Ethylene Sulfate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Fatty Acids	A	A1	A	B	C	A1	A1	A1	A	A	~	A	A	A	B	NR	C	C	A	~
FC-77 (Cyclic Fluorinated Ether)	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Ferric Chloride	NR	A	B2	A	NR	~	A	A	B	A	~	A	A	A	A	A	B	B	A1	~
Ferric Nitrate	B	A	B1	A	NR	~	A	A	A	A	~	A	A	A	A	A	A	C	A	~
Ferric Oxide	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Ferric Sulfate	~	~	~	~	~	B	~	~	A	~	~	~	~	~	~	~	~	~	A	~
Ferrous Chloride	NR	A	B1	A	C	~	A	A	A	A	~	A	A	A	A	~	A	~	B1	A
Ferrous Nitrate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Ferrous Sulfate	B	A	B	A1	NR	~	A	A	A	A	~	A	B	A	A2	A	~	C	A	A
Flo-Cool 180 (Silicate Ester)	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Flue Gases	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Fuoboric Acid	B	A	A1	NR	NR	~	A	A	~	A	~	A	B	A	A	A2	A	~	B1	A
Fluorine	A	NR	B1	NR	NR	~	NR	NR	C	B	~	C	C	B	NR	A1	~	NR	A	A
Fluorisilic Acid, 25%	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Fluosilicic Acid	B	A	B	NR	NR	~	A	A	~	A	~	A	B1	A	A	A2	A	~	C	A
Formaldehyde 37%	~	A	~	A	~	A	A	A	A	~	~	~	~	~	~	~	~	~	~	~
Formaldehyde 40%	A	A	B	B	A	A	A	A	A	A	~	A	A	A	B	A	B1	NR	A	A
Formaldehyde 100%	A	B	A	A	A	A	B	B	A	A	~	~	NR	A	C	A	C	B	A	A
Formalin	A	A	A	B	A	~	A	A	A	A	~	~	NR	A	NR	A	A	NR	~	~
Formic Acid	A1	A	A	C1	C	~	A	A	A	A	B1	A	C	A	C	A	A	B	A1	A
Freon 11	A	A	A	B	A	A	A	A	A	A	~	~	B	A	B	NR	NR	NR	A	A
Freon 12	B	A	A	B	A	A	A	A	A	A	A	~	B	A	A	B	A	NR	C	~
Freon 22	A	A	A	B	A	A	A	A	A	A	A	~	NR	A	NR	A	A	NR	A	~
Freon 113	A	A	A	C	A	A	A	A	A	A	A	~	B	A	A	NR	C	NR	~	A
Freon 114	~	~	~	~	~	A	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Freon 134A	~	~	~	~	~	A	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Freon 502	~	~	~	~	~	A	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Freon TF	A	NR	A	B	A	A	NR	NR	~	A	~	~	B	A	A	NR	A	NR	~	A
Fruit Juice	A	~	A	A	C	A1	~	~	A	A	~	~	A	A	A	A	A	A1	A	A
Fuel Oil (1,2,3,5A,5B,6)	A	A	A1	B	A	~	A	A	~	A	~	A	B	A	B	NR	NR	C	A	~
Fuel Oils	A	A	A1	A	A	~	A	A	A	B	~	A	A	B	NR	NR	B	NR	~	~
Fuel: JP	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Fuel: Jet (JP3,JP4,JP5)	A	A	A	A	A	~	A	A	~	A	~	A	A	A	A	NR	NR	NR	A	~

Legend (A) = Satisfactory (B) = Slight Attack (C/NR) = Not Recommended (~) = No Data (1) = Good to 72 °F, 22 °C (2) = Good to 120 °F, 48 °C	316 SS	PPS	Hastelloy-C	Titanium	Alloy 20	Waukesha 88	PPS	SSM	PEEK	PTFE (Teflon)	LCP	Carbon	Viton	PTFE (Teflon)	Buna-N	EPDM	Neoprene	Silicone Rubber	Kal-Rez	Ceramic Magnet
	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Furan	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Furan Resin	A	A	B	~	A	~	A	A	~	A	~	~	NR	A	NR	C	NR	NR	A1	~
Furfural	B	A	B	A	A	~	A	A	~	A	~	A	NR	A	NR	NR	NR	NR	NR	~
Gallic Acid	B	A	B1	B	A	~	A	A	~	B	~	B	A	B	B	B	B	NR	A	~
Gas (natural)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Gasoline (high-aromatic)	A	A	A	B	A	~	A	A	A	B	~	A	A	B	A	NR	A	NR	A	A
Gasoline, leaded, ref.	A2	A	A	A	A	~	A	A	A	A	~	A2	A1	A	A2	NR	B	NR	A2	A
Gasoline, unleaded	A2	A	A	A	A	~	A	A	A	A	~	A2	A1	A	A1	NR	B	NR	A2	~
Gelatin	A2	~	A	A	A	A1	~	~	A	A	~	A	A	A	A	A	A	A	~	A
Genklene R (1,1,1, Trichloroethane)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Ginger Oil	NR	~	~	~	NR	~	~	~	~	A	~	~	A	A	A	A	A	~	~	~
Glucose	A	B	A	A	A	A1	B	B	~	A	~	A	A	A	A	A	A	A	~	A
Glue, P.V.A.	A2	~	A	A	A	A1	~	~	~	A	~	A	B	A	A	A	A	A	~	A
Glycerin	A	A	A	A	A	A1	A	A	~	A	~	A	A	A	A	A	A	A	A	~
Glycerol	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Glycolic Acid	A	A	A	A	~	~	A	A	A	A	~	A	A	A	A	A	A	A	A	B1
Gold Monocyanide	A	~	~	~	A	~	~	~	~	NR	~	~	A	NR	A	~	A	~	~	~
Grape Juice	A	~	~	A	C	~	~	~	~	A	~	~	A	A	A	A	NR	A	~	~
Grease	A	~	A	~	A	~	~	~	~	A	~	~	A	A	A	NR	NR	NR	~	~
Heptane	A	A	A	A	A	~	A	A	A	A	~	A	A	A	A	NR	B	NR	A	~
Hexane	A	A	A	A	A	~	A	A	A	A	~	A	A	A	A	NR	B	NR	A	A
Honey	A	~	A	~	A	~	~	~	~	A	~	~	A	A	A	A	~	A	~	~
Hydraulic Fluid	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Hydraulic Oil (Petro)	A	NR	A	~	A	~	NR	NR	~	A	~	B	A	A	A	NR	A	B	~	~
Hydraulic Oil (Synthetic)	A	~	A	~	A	~	~	~	~	A	~	B	A	A	NR	A	A	B	~	~
Hydrazine	A	~	~	~	NR	A1	~	~	A	C	~	~	A	C	B	A	B	B	~	~
Hydrobromic Acid	NR	A1	C	A	NR	~	A1	A1	C	A	~	A	A	A	NR	A	NR	NR	A	~
Hydrobromic Acid 20%	NR	A	A	A	C	~	A	A	C	A	~	A	A	A	NR	A	NR	NR	A	~
Hydrocarbons	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Hydrochloric Acid 20%	NR	NR	A1	NR	NR	~	NR	NR	A	A	~	A	A	A	B1	A	C	NR	~	~
Hydrochloric Acid 37%	NR	NR	B	NR	NR	~	NR	NR	~	A	B	A	A	A	B	C	B	B	A	A

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Hydrochloric Acid 100%	NR	NR	A	NR	NR	~	NR	NR	A	A	~	A	A	A	NR	NR	NR	NR	A	A
Hydrochloric Acid, Dry Gas	NR	A	A	C	NR	~	A	A	~	A	~	A	~	A	~	~	~	~	A	A
Hydrocyanic Acid	A	B	A	B	NR	~	B	B	A	A	~	A	A	A	B	B	B	C	~	~
Hydrocyanic Acid gas 10%	~	~	~	A	NR	~	~	~	~	A	~	~	A	A	B	A	A	NR	~	~
Hydrofluoric Acid 20%	NR	NR	B	NR	NR	~	NR	NR	C	A	~	A	A	A	NR	NR	B	NR	B1	B
Hydrofluoric Acid 50%	NR	NR	B	NR	NR	~	NR	NR	C	A	~	A	B	A	NR	NR	NR	NR	B1	B
Hydrofluoric Acid 75%	NR	NR	B	NR	NR	~	NR	NR	C	A	~	A	B	A	NR	C	NR	NR	B1	B
Hydrofluoric Acid 100%	B1	NR	B	NR	NR	~	NR	NR	C	A	~	~	B	A	NR	NR	NR	NR	A	B
Hydrofluosilicic Acid	NR	A1	B	NR	NR	~	A1	A1	~	A	~	A	A	A	B	A	B	NR	B1	~
Hydrofluosilicic Acid 20%	B1	A	B	NR	NR	~	A	A	~	A	~	A	A	A	A	A	B	NR	A	~
Hydrogen Gas	A	A	A	A	A	~	A	A	~	A	~	A	A	A	A	A	A	C	B1	~
Hydrogen Peroxide 10%	B	A	A	A	C	A1	A	A	A	A	~	C	A	A	NR	A	NR	A	A	A
Hydrogen Peroxide 30%	B	A1	A	B1	B	~	A1	A1	A	A	~	C	A	A	NR	B	NR	B	B1	A
Hydrogen Peroxide 50%	A2	NR	A	A	B	~	NR	NR	A	A	~	C	A	A	NR	B	NR	B	A	A
Hydrogen Peroxide 100%	A2	C	A	B	NR	A1	C	C	A	A	~	C	A	A	NR	NR	NR	B	B1	A
Hydrogen Sulfide (aqua)	A	A	A	B	NR	~	A	A	~	A	~	A	NR	A	NR	B	A	C	A1	A
Hydrogen Sulfide (dry)	A	A	A	A	NR	~	A	A	~	A	~	A	NR	A	NR	B	A	C	B1	~
Hydrogen Sulfide (gas)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Hydroquinone	B	~	B	B	A	~	~	~	~	A	~	A	B	A	NR	NR	A	~	~	A
Hydroxides	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Hydroxyacetic Acid 70%	~	~	~	A	NR	~	~	~	~	A	~	~	A	A	A	A	A	~	~	~
Ink	C	~	A1	A1	NR	A1	~	~	~	A	~	~	A	A	A	A1	A	~	~	A
Iodine	NR	NR	A	A	NR	~	NR	NR	B	A	~	NR	A	A	B	B	NR	~	A	~
Iodine (in alcohol)	~	~	B	B	~	~	~	~	~	~	~	~	~	~	~	A	~	~	~	~
Iodoform	A	~	NR	B	A	~	~	~	~	C	~	~	~	C	NR	A	A	~	~	~
Isooctane	A1	A	A1	~	A1	~	A	A	A	A	~	A2	A1	A	A2	NR	B1	NR	A1	~
Isopropyl Acetate	A	~	B	~	B	~	~	~	~	A	~	A	NR	A	NR	B	NR	NR	A	~
Isopropanol	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Isopropyl Ether	A	~	A	A	A	~	A	A	~	A1	~	A	NR	A1	B	NR	NR	NR	~	~
Isotane	~	~	~	~	~	~	~	~	~	~	~	~	A	~	A	~	NR	~	~	~

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	Chemicals																				
	Body					Gears and Bearings							O-Rings								
Kerosene	A	A	B	A	A	A	A	A	A	A	~	A	A	A	A	NR	A	NR	A	B	
Ketones	A	A	A	A	A	A1	A	A	A	A	~	A	NR	A	NR	A	NR	NR	B1	~	
Lacquers	A	~	A	~	A	~	~	~	~	A	~	A	NR	A	NR	NR	NR	NR	~	~	
Lacquer Thinners	A	A	A	C	A	A1	A	A	~	A	~	A	NR	A	NR	NR	NR	NR	~	~	
Lactic Acid	B1	A	B1	A	C	~	A	A	A	A	~	A	A	A	A	A	A	A	A1	~	
Lactic Acid 10%	~	~	~	~	~	A1	~	~	~	~	~	~	~	~	~	~	~	~	~	~	
Lard	A	~	A	A	A	A1	~	~	~	A	~	A	A	A	A	NR	NR	B	~	~	
Latex	A2	~	A	~	A	A1	~	~	~	A	~	~	A	A	A	A	~	A	~	~	
Lead Acetate	B1	A	B1	A1	A	~	A	A	A	A	~	A	NR	A	B	A	A	A	A	~	
Lead Nitrate	B1	A	B2	~	B	~	A	A	~	A1	~	A1	A2	A1	A2	A2	A1	B1	~	~	
Lead Sulfamate	C	~	~	~	~	~	~	~	~	B	~	~	A	B	B	A	A	B	~	~	
Lemon Oil	A	~	~	~	A	~	~	~	~	A	~	~	A	A	~	NR	NR	~	~	~	
Ligroin	A	~	A	A	A	A1	~	~	~	A	~	~	A	A	A	NR	B	NR	~	~	
Lime	A	~	A	A	A	~	~	~	A	A1	~	A	A	A1	A	NR	A	~	~	~	
Linoelic Acid	A	~	A	A	A	A	~	~	~	A	~	A2	B1	A	B1	NR	~	B1	~	~	
Linseed Oil	A	B	B	A	A	A1	B	B	A	A	~	A	A	A	A	NR	NR	A	~	A	
Lithium Chloride	A2	~	B	A	A	~	~	~	~	A	~	A2	A1	A	A2	A1	A1	A1	~	~	
Lithium Hydroxide	B	~	B	~	NR	~	~	~	~	A	~	B	B	A	C	A	~	NR	~	~	
Lubricants	A2	A	A	A	A	~	A	A	~	A	~	A	A	A	A	NR	NR	NR	~	~	
Lubricating Oil	~	A	~	~	~	A1	A	A	A	~	~	~	~	~	~	~	~	~	~	~	
Lye: Ca(OH) ₂ Calcium Hydroxide	B	A	A1	A	B	~	A	A	~	A	~	A	B1	A	A	A	A	A	A2	A	
Lye: KOH Potassium Hydroxide	A1	A	B1	NR	B	~	A	A	~	A	~	C	B	A	B1	A2	B	C	B	A	
Lye: NaOH Sodium Hydroxide	B1	A	C	B	NR	~	A	A	~	A	~	~	B1	A	A1	B1	B2	A1	B	~	
M-Creosol (crude)	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	~	~	
Magnesium Bisulfate	A1	~	~	~	A1	~	~	~	~	A	~	A1	~	A	B	~	B	~	~	~	
Magnesium Carbonate	B	~	B	A	A	~	~	~	~	A1	~	~	A	A1	A2	A	A	~	~	A	
Magnesium Chloride	NR	A1	A2	A2	C	~	A1	A1	A	A	~	A2	A2	A	A2	A	A	A	A	A	
Magnesium Hydroxide	A1	A	A	A	A	~	A	A	A	A	~	A	A	A	A	A	A	A	A	~	
Magnesium Nitrate	B	A	A	A	NR	~	A	A	~	A	~	~	A	A	A	A	A	B1	~	A	

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Magnesium Oxide	A	~	A	A1	A	~	~	~	~	A	~	~	C	A	A	A1	A	~	~	~
Magnesium Sulfate (Epsom Salts)	B	A	B	A1	C	A1	A	A	A	A	~	A	A	A	A	A	A	A	A	~
Maleic Acid	B	B	B	A	A	A	B	B	A	A	~	A	A	A	NR	NR	NR	NR	~	~
Maleic Anhydride	A	~	A	~	~	~	~	~	~	A	~	~	A	A	NR	NR	NR	~	~	~
Malic Acid	A2	~	B	A	A	~	~	~	~	A	~	B	A	A	A	NR	NR	B	~	~
Manganese Carbonate	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Manganese Chloride	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Manganese Chloride 50%	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Manganese Sulfate	B2	A2	A2	A2	C	~	A2	A2	~	A	~	A2	A2	A	A2	A2	A2	A1	A1	~
Mash	A	~	A	~	A	~	~	~	~	~	~	~	A	~	A	A	A	NR	~	~
Mayonnaise	A	~	A	~	NR	~	~	~	~	A	~	~	A	A	C	NR	A	~	~	~
Meat Juices	~	~	~	A	~	A1	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Melamine	NR	~	~	~	NR	~	~	~	~	A	~	NR	A	A	C	A	NR	C	~	~
Mercuric Chloride (dilute)	NR	A	C	A1	NR	~	A	A	A	A	~	C	A	A	A	A1	A	A	A	~
Mercuric Cyanide	C	A	A	A	A	~	A	A	~	B	~	~	A1	B	A	A1	A	A	NR	~
Mercurous Chloride	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Mercurous Nitrate	A1	~	A1	A1	A1	~	~	~	~	A	~	C	A1	A	B1	A1	B1	~	~	A
Mercury	A	~	A2	A	NR	~	~	~	A	A	~	C	A	A	A	A	A	A1	A	A
Methane	A	~	A	~	A	A1	~	~	A	A	~	B	A	A	A	NR	B	NR	~	~
Methanol (Methyl Alcohol)	A	A	A	B	A	A1	A	A	A	A	A	A	C	A	A	A	A	A	A1	A
Methyl Acetate	B	~	A	~	A	~	~	~	A	A	~	A	NR	A	NR	B	B	NR	A	~
Methyl Acetone	A	~	~	~	B	~	~	~	~	A	~	A	NR	A	NR	A1	NR	~	~	~
Methyl Acrylate	A	~	~	~	A	~	~	~	~	A1	~	~	NR	A1	NR	B	B	NR	~	~
Methyl Alcohol 10%	A	A	A	B	A	~	A	A	~	A	~	A	C	A	A	A	A	A	A2	A
Methyl Bromide	A	~	B	A1	A1	~	~	~	~	A	~	A	A	A	B1	NR	NR	NR	~	~
Methyl Butyl Ketone	A	~	~	~	A	~	~	~	~	A1	~	~	NR	A1	NR	A1	NR	NR	~	~
Methyl Cellosolve	B	~	~	~	A	~	~	~	~	A	~	A	NR	A	A1	B2	B	NR	~	~
Methyl Chloride	A	B	B	A	C	~	B	B	~	A	~	A	A1	A	NR	NR	NR	NR	A1	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Methyl Dichlonde	~	~	~	~	~	~	~	~	~	A1	~	~	A1	A1	NR	NR	~	~	~	~
Methyl Ethyl Ketone	A	A	A	A	A	A1	A	A	A	A	~	A	NR	A	NR	A2	NR	NR	A1	A
Methyl Ethyl Ketone Peroxide	~	~	~	~	~	~	~	~	~	~	~	~	NR	~	NR	NR	NR	B	~	~
Methyl Isobutyl Ketone	B	A	A	A	C	~	A	A	~	A	~	A	NR	A	NR	B1	NR	NR	A	~
Methyl Isopropyl Ketone	A	A	~	~	A1	~	A	A	~	A	~	A	NR	A	NR	C1	NR	C	~	~
Methyl Methacrylate	B	~	~	~	~	~	~	~	~	A	~	~	NR	A	NR	NR	NR	C	~	~
Methylamine	A	~	B	C	NR	~	~	~	~	A	~	A2	NR	A	B	A1	~	~	A	~
Methylene Chloride	B	A	B	B	A	~	A	A	A	A	A	A	B	A	NR	C1	~	NR	A	~
Milk	A	~	A	A	C	A1	~	~	A	A	~	A	A	A	A1	A	A	A	A	A
Mineral Oil	A	A	A	A	A	A1	A	A	A	A	~	A	A	A	A	NR	B	C	A	A
Mineral Spirits	A	A	B	B	C	~	A	A	~	A	~	A	A	A	A	NR	C	NR	A	~
Molasses	A	A	A	A	NR	A1	A	A	A	A	~	A	A	A	A	A1	A	A	A	A
Monochloroacetic acid	A1	~	A2	A2	B	~	~	~	~	A2	A	B2	C	A2	NR	C	A1	NR	B2	~
Monoethanolamine	A	A	B	B	B	A	A	A	~	A	~	A	NR	A	B1	B	NR	B	~	~
Morpholine	A1	C	A1	~	~	~	C	C	~	A2	~	A1	~	A2	NR	NR	NR	~	~	~
Motor Oil	A2	A	A1	A1	A	~	A	A	A	A	A	A2	A1	A	A	NR	B1	~	A2	A
Mustard	A	~	A	A	NR	~	~	~	~	A	~	A	NR	A	B	A	A	A1	~	~
N-Methyl-2-Pyrrolidone (NMP)	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Naphtha	A	A	B	B	B	A1	A	A	A	B	~	A	A	B	A	NR	NR	NR	A	~
Naphthalene	A	A	A	A	C	~	A	A	A	A	~	A	A	A	NR	NR	NR	NR	A	~
Natural Gas	A	~	A1	~	A1	~	~	~	~	A	~	~	A	A	A	NR	A	A	~	~
Nickel Acetate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Nickel Chloride	C	A	B	A	NR	~	A	A	A	A	~	A	A	A	A1	A1	B	A	A	~
Nickel Nitrate	B2	A	B2	A	B	~	A	A	A	A2	~	~	A2	A2	A1	A2	A2	~	A2	A
Nickel Salts	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Nickel Sulfate	B1	A	B	B	C	~	A	A	A	A	~	A	A	A	A1	A1	A	A	A	~
Nitrating Acid (< or =1% Acid)	A	C	A	~	NR	~	C	C	~	A	~	~	~	A	~	~	A	~	~	~
Nitrating Acid (< or = 15% H2SO4)	C	C	A	A	NR	~	C	C	~	A	~	~	~	A	~	~	A	~	~	~

Legend (A) = Satisfactory (B) = Slight Attack (C/NR) = Not Recommended (~) = No Data (1) = Good to 72 °F, 22 °C (2) = Good to 120 °F, 48 °C	316 SS	PPS	Hastelloy-C	Titanium	Alloy 20	Waukesha 88	PPS	SSM	PEEK	PTFE (Teflon)	LCP	Carbon	Viton	PTFE (Teflon)	Buna-N	EPDM	Neoprene	Silicone Rubber	Kal-Rez	Ceramic Magnet	
	Chemicals																				
	Body					Gears and Bearings							O-Rings								
Nitrating Acid (<15% HNO_3)	NR	C	A	C	NR	~	C	C	~	A	~	~	~	A	~	~	A	~	~	~	
Nitrating Acid (>15% H_2SO_4)	C	NR	A	C	NR	~	NR	NR	~	A	~	~	~	A	NR	A1	A	~	~	~	
Nitric Acid 5-10%	A	NR	A1	A1	NR	~	NR	NR	A	A	~	A	A	A	NR	A1	B	C	A1	~	
Nitric Acid 20%	A	C	A1	A1	NR	~	C	C	~	A	~	A	A	A	NR	A1	NR	NR	A1	~	
Nitric Acid 35%	~	NR	~	A1	~	~	NR	NR	A	~	~	~	~	~	~	~	~	~	~	~	
Nitric Acid 50%	A1	C	A1	A1	NR	~	C	C	C	A	A	NR	A	A	NR	NR	NR	NR	A	C	
Nitric Acid 100%	A1	C	B1	A1	NR	A	C	C	C	A	~	NR	A	A	NR	NR	NR	NR	A1	C	
Nitrobenzene	B	A2	NR	A	C	~	A2	A2	A	A	A	B	B	A	NR	B1	NR	NR	A1	~	
Nitrogen	~	A	~	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~	
Nitrogen Fertilizer	~	~	~	~	~	~	~	~	~	A	~	~	~	A	~	~	~	~	~	~	
Nitromethane	A1	A2	A	~	~	~	A2	A2	~	A	~	A2	NR	A	NR	B2	NR	NR	A	~	
Nitrous Acid	B	~	NR	A	A	~	~	~	~	A	~	~	B	A	~	A	NR	~	B2	~	
Nitrous Acid, 10%	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Nitrous Oxide	B	~	B	~	B	~	~	~	A	A	~	C	B	A	~	A	A	~	~	~	
Oleic Acid	A	A	A2	B	C	~	A	A	A	A	~	A	B	A	B	B	C	NR	B2	~	
Oleum 100%	A	A1	NR	NR	NR	~	A1	A1	C	A	~	NR	A	A	NR	NR	NR	NR	A	~	
Oleum 25%	B	A1	A	NR	NR	~	A1	A1	C	A	~	NR	A	A	NR	NR	NR	NR	A	~	
Olive Oil	A	~	A	A	A	A1	~	~	A	A1	~	A	A	A1	NR	NR	B	NR	~	~	
Orange Oil	A	~	A	A	A	~	~	~	~	~	~	~	A	~	A	~	C	NR	~	~	
Oxalic Acid	A	A	B	A	A	NR	A	A	A	A1	~	A	A	A1	NR	A	NR	B	~	~	
Oxalic Acid (10%)	A	~	A	A	A	A	~	~	A	~	~	~	A	~	A	~	B	NR	~	~	
Oxalic Acid (cold)	A	~	~	A	A	~	~	~	A	A	~	~	A	A	A	A	NR	~	NR	~	
Oxygen	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Ozone	A	~	~	~	~	~	~	~	NR	A	A	~	A	A	NR	A	C	A	A	~	
Palm Oil	A	~	~	A	A	~	~	~	~	A	~	~	A	A	A	A	NR	~	~	~	
Palmitic Acid	A1	~	B	~	~	A1	~	~	~	A2	~	A2	A1	A2	A2	B1	NR	NR	~	~	
Paraffin	A	~	B	A	A	~	~	~	A	A	~	A	B	A	B	NR	B	~	~	~	
Peanut Oil	A	~	~	A	A	~	~	~	A	A	~	~	A	A	A	NR	B	A	~	~	
Pentane	C	~	A	~	C	~	~	~	A	A	~	A	A	A	A	NR	B	NR	~	~	
Peppermint Oil	A	~	~	~	A	~	~	~	~	A	~	~	A	A	NR	~	NR	~	~	~	

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Perchloric Acid	C	~	B	NR	~	~	~	~	A	A	~	A	A	A	NR	B	A	NR	B	~
Perchloroethylene	A1	A	B	A	NR	~	A	A	A	A	~	A	A	A	C	NR	NR	NR	A	~
Petrol	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Petrolatum	A	~	A	~	A	~	~	~	~	C	~	A	A	C	A	A	A	NR	~	~
Petroleum	A1	~	~	A1	~	A1	~	~	~	A2	~	A2	A2	A2	A2	NR	B1	NR	~	~
Petroleum Ether	~	~	~	A	~	A1	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Petroleum Oil	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Phenol	~	A	~	A	~	A1	A	A	C	~	A	~	~	~	~	~	~	~	~	~
Phenol 10%	B	A	B	B	C	~	A	A	A	A	~	A	A	A	NR	B	NR	NR	B	~
Phenol (Carbolic Acid)	B	A	A	A	C	~	A	A	~	A	~	A	A	A	NR	B	NR	NR	B	~
Phosphoric Acid (< OR = 40%)	C	A	A2	C	NR	A1	A	A	A	A	~	A	A	A	NR	B	B	C	A	~
Phosphoric Acid (>40%)	NR	B	A2	C	NR	A1	B	B	A	A	~	B	A	A	NR	B	B	NR	A	C
Phosphoric Acid (crude)	B	A	A2	C	NR	~	A	A	~	A	~	A	A	A	NR	B	NR	NR	A	~
Phosphoric Acid (molten)	C	~	C	NR	A	~	~	~	~	~	~	~	~	~	~	~	A	~	~	~
Phosphoric Acid Anhydride	~	NR	~	NR	A	~	NR	NR	~	~	~	~	~	~	NR	~	A	~	~	~
Phosphorus	A2	~	A2	~	~	~	~	~	~	A2	~	NR	~	A2	~	~	~	~	~	~
Phosphorus Chlorides	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Phosphorus Pentoxide	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Phosphorus Trichloride	A2	A	A2	A	~	~	A	A	~	A2	~	A	A1	A2	A	A1	NR	~	A2	~
Photographic Developer	A	~	B	A	NR	~	~	~	~	A	~	A	A	A	A	B	A	B	~	A
Photographic Solutions	~	A2	B2	A1	~	~	A2	A2	~	A2	~	A2	B1	A2	B	A1	B1	A	A2	~
Phthalic Acid	A	~	B2	A	~	~	~	~	A	A2	~	A1	A1	A2	NR	A1	A	B1	~	~
Phthalic Anhydride	A	~	A	~	B	~	~	~	~	A	~	A	A	A	NR	A	A	~	~	~
Picric Acid	B	A	B	A	NR	~	A	A	A	A	~	A	A	A	C	B	A	NR	A	~
Pine Oil	A	~	~	A	NR	~	~	~	~	A	~	~	A	A	NR	NR	NR	NR	~	~
Plating: Antimony 1300F	A	~	A	A	A	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Arsenic 1100F	A	~	A	A	A	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Brass High Speed Brass Bath 1100F	A	~	A	A	A	~	~	~	~	A	~	A	A	A	A	~	A	~	~	~

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	Chemicals																				
	Body					Gears and Bearings							O-Rings								
Plating: Brass Regular Brass Bath 1000F	A	~	A	A	A	~	~	~	~	A	~	A	A	A	A	~	A	~	~	~	
Plating: Bronze Cu-Cd Bath R.T.	A	~	A	A	A	~	~	~	~	A	~	~	A	A	A	A	A	~	~	~	
Plating: Bronze Cu-Sn Bath 1600F	A	~	A	NR	A	~	~	~	~	A	~	~	A	A	A	A	A	~	~	~	
Plating: Bronze Cu-Zn Bath 1000F	A	~	A	A	A	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~	
Plating: Cadmium Cyanide Bath 900F	A	~	A	A	A	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~	
Plating: Cadmium Fluoborate Bath 1000F	A	~	NR	NR	A	~	~	~	~	A	~	~	A	A	B	~	C	~	~	~	
Plating: Chromium Barrel Chrome Bath 950F	NR	~	NR	C	NR	~	~	~	~	A	~	~	C	A	NR	~	NR	~	~	~	
Plating: Chromium Black Chrome Bath 1150F	C	~	NR	A	C	~	~	~	~	A	~	~	C	A	C	~	NR	~	~	~	
Plating: Chromium Chromic-Sulfuric Bath 1300F	C	~	NR	A	C	~	~	~	~	A	~	~	C	A	NR	~	NR	~	~	~	
Plating: Chromium Fluoride Bath 1300F	NR	~	NR	C	NR	~	~	~	~	A	~	~	C	A	NR	~	NR	~	~	~	
Plating: Chromium Fluosilicate Bath 950F	C	~	NR	C	C	~	~	~	~	A	~	~	C	A	NR	~	NR	~	~	~	
Plating: Copper (Electroless)	~	~	~	A	~	~	~	~	~	A	~	~	A	A	NR	~	NR	~	~	~	
Plating: Copper Acid Fluoborate Bath 1200F	NR	~	NR	NR	NR	~	~	~	~	A	~	~	A	A	B	~	C	~	~	~	
Plating: Copper Acid Sulfate Bath R.T.	NR	~	NR	A	NR	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~	
Plating: Copper Cyanide High Spd. Bath 1800F	A	~	A	NR	~	~	~	~	~	A	~	~	A	A	A	~	B	~	~	~	
Plating: Copper Cyanide Roch. Salt Bath 1500F	A	~	A	NR	~	~	~	~	~	A	~	~	A	A	A	~	B	~	~	~	
Plating: Copper Cyanide Strike Bath 1200F	A	~	A	~	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~	

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Plating: Copper Pyrophosphate	A	~	A	A	A	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Gold Acid 750F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Gold Cyanide 1500F	A	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Gold Neutral 750F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Indium Sulfamate Plating R.T.	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Iron Ferrous Am Sulfate Bath 1500F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	B	~	~	~
Plating: Iron Ferrous Chloride Bath 1900F	NR	~	NR	A	~	~	~	~	~	A	~	~	A	A	B	~	NR	~	~	~
Plating: Iron Ferrous Sulfate Bath 1500F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	B	~	~	~
Plating: Iron Fluoborate Bath 1450F	NR	~	B	NR	~	~	~	~	~	A	~	~	A	A	B	~	C	~	~	~
Plating: Iron Sulfamate 1400F	NR	~	B	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Iron Sulfate-Chloride Bath 1600F	NR	~	NR	A	~	~	~	~	~	A	~	~	A	A	B	~	C	~	~	~
Plating: Lead Fluoborate	C	~	A	NR	~	~	~	~	~	A	~	~	A	A	B	~	A	~	~	~
Plating: Nickel Electroless 2000F	~	~	~	~	~	~	~	~	~	A	~	~	A	A	NR	~	NR	~	~	~
Plating: Nickel Fluoborate 100-1700F	C	~	A	NR	~	~	~	~	~	A	~	~	A	A	B	~	A	~	~	~
Plating: Nickel High Chloride 130-1600F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	B	~	~	~
Plating: Nickel Sulfamate 100-1400F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Nickel Watts Type 115-1600F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Rhodium 1200F	NR	~	NR	NR	~	~	~	~	~	A	~	~	A	A	A	A	B	~	~	~
Plating: Silver 80-1200F	A	~	A	A	~	~	~	~	~	A	~	~	A	A	A	A	A	~	~	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Plating: Tin-Fluoroborate Plating 1000F	C	~	A	NR	~	~	~	~	~	A	~	~	A	A	B	~	C	~	~	~
Plating: Tin-Lead Plating 1000F	C	~	A	NR	~	~	~	~	~	A	~	~	A	A	B	~	C	~	~	~
Plating: Zinc Acid Chloride 1400F	NR	~	NR	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Plating: Zinc Acid Fluoroborate Bath R.T.	C	~	A	NR	~	~	~	~	~	A	~	~	A	A	B	~	C	~	~	~
Plating: Zinc Acid Sulfate Bath 1500F	C	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	B	~	~	~
Plating: Zinc Alkaline Cyanide Bath R.T.	A	~	A	A	~	~	~	~	~	A	~	~	A	A	A	~	A	~	~	~
Potash (Potassium Carbonate)	B	~	B	A	B	~	~	~	~	~	~	A	A	~	A	A1	A	~	~	~
Potassium Aluminum Sulfate	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Potassium Bicarbonate	B	A	B	A	B	~	A	A	A	A	~	A	A	A	A	A	A	A1	A	A
Potassium Bichromate	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Potassium Bromide	B	A	B	A	B	~	A	A	A	A	~	A	A	A	A	A1	A	A1	A	A
Potassium Carbonate	~	~	~	A	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Potassium Chlorate	B	A	B	A	B	~	A	A	A	A	~	A2	A	A	A1	A1	A	B	A2	~
Potassium Chloride	A1	A	A	A	A	A1	A	A	A	A	~	A	A	A	A1	A1	A	A	A	~
Potassium Chromate	B1	~	A	~	B	~	~	~	~	A1	~	A	A	A1	A1	A2	A	~	~	~
Potassium Cyanide Solutions	B1	A	B	A	B	~	A	A	A	A	~	A	A	A	A1	A1	B	A	A	~
Potassium Dichromate	B1	A	B	A	B	~	A	A	A	A	~	A	A	A	A1	A1	A	A	A	A
Potassium Ferricyanide	B1	~	B2	A2	B	~	~	~	A	A2	~	A2	A	A2	NR	A	A1	~	A1	A
Potassium Ferrocyanide	B	~	B	A	B	~	~	~	A	A	~	A	A	A	NR	A	A	~	A	A
Potassium Hydroxide	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Potassium Hydroxide (Caustic Potash)	A1	A	B1	NR	B	~	A	A	~	A	~	C	B	A	B1	A2	B	C	B	A
Potassium Hydroxide 10%	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Potassium Hydroxide 50%	~	NR	~	~	~	~	NR	NR	~	~	~	~	~	~	~	~	~	~	~	~
Potassium Hydroxide 70%	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Potassium Hypochlorite	B	A	B2	A	B	~	A	A	~	A2	~	~	~	A2	A1	A1	B2	~	~	~
Potassium Iodide	A1	A2	A2	A	A	~	A2	A2	~	A2	~	A1	A	A2	A1	A	A	~	~	~
Potassium Nitrate	B	A	B1	A	B	A1	A	A	A	A	~	A	A	A	A2	A	A	A	~	~
Potassium Oxalate	B1	~	A1	A	B	~	~	~	~	A2	~	A1	~	A2	~	~	~	~	~	~
Potassium Permanganate	B	C	A1	A	B	~	C	C	A	A	~	B1	A	A	C	A	A	~	~	~
Potassium Sulfate	A	A	B1	A	A	~	A	A	A	A	~	A	A2	A	A2	A1	A	A	A1	A
Potassium Sulfide	B	A	~	A	A	~	A	A	A	A	~	A	A	A	A	A	A	A	A	~
Propane (liquified)	A	A	A	~	A	A1	A	A	A	A	~	A	A	A	A	NR	C	NR	A	~
Propanol	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Propyl Alcohol	~	~	~	A	~	A1	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Propylene	A1	~	~	~	A	~	~	~	~	A2	~	A2	A1	A2	NR	NR	NR	NR	~	~
Propylene Chlorohydrin	~	B	~	~	~	~	B	B	~	~	~	~	~	~	~	~	~	~	~	~
Propylene Glycol	B	A	B	A	A	~	A	A	A	A	~	~	A	A	A	A	C	A	~	A
Pyridine	A	A	B	B	A	~	A	A	A	A	~	A	NR	A	NR	B	NR	NR	A1	~
Pyrogalllic Acid	B	~	B	A	B	~	~	~	~	A	~	A	A	A	~	B	A	~	A	~
Rapeseed Oil	A	~	~	A	A	~	~	~	~	A	~	~	A	A	NR	A	B	NR	~	~
Resorcinal	~	~	~	~	~	~	~	~	~	A2	~	A2	A1	A2	~	B1	NR	~	~	~
Rosins	A1	~	~	~	B	A1	~	~	~	A	~	A	A	A	A2	~	A	A	A	~
Rosin Oil	A1	~	A	~	A	~	~	~	~	A	~	A	A	A	A	~	~	~	~	~
Rum	A	~	~	~	~	~	~	~	~	~	~	~	A	~	A	A	A	A	~	~
Rust Inhibitors	A	~	~	~	B	~	~	~	~	~	~	~	A	~	A	~	C	~	~	~
Salad Dressings	A	~	~	~	B	~	~	~	~	~	~	~	A	~	A	~	~	~	~	~
Salicylic Acid	B2	~	A2	A1	B	~	~	~	~	A2	~	A2	A1	A2	B	A	~	~	A1	~
Salt	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Salt Brine (NaCl saturated)	A2	A	A2	A2	B	~	A	A	~	A2	~	A2	A2	A2	A	A	A2	A1	~	~
Sea Water	C	A	A	A	A	A	A	A	A	A	~	A	A	A	A2	A2	B2	A1	A	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Sesame Seed Oil	A	~	~	A	A	~	~	~	~	A	~	~	A	A	A	~	NR	~	~	~
Sewage	~	~	~	~	~	A1	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Sheilac (Bleached)	A	~	~	~	A	~	~	~	~	A	~	A	A	A	A2	A2	B2	~	~	~
Sheilac (Orange)	A	~	~	~	A	~	~	~	~	A	~	A	A	A	A	A	NR	~	~	~
Silicic Acid	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Silicone	A	A1	~	~	A	~	A1	A1	~	A	~	A	A	A	A	A	A	C	~	~
Silicone Fluids	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Silicone Oil	A	A1	A	~	A	~	A1	A1	~	A	A	A	A	A	A	A	NR	C	~	A
Silver Bromide	NR	~	A	~	A	~	~	~	~	A	~	~	~	A	~	~	~	~	A	~
Silver Chloride	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Silver Cyanide	A	~	~	A	A	~	~	~	~	A	~	A	A	A	A2	A2	B2	~	~	~
Silver Nitrate	B	A	A	A	C	~	A	A	A	A	~	A	A	A	B	A	A	A	A	~
Skydrol Hydraulic Fluid	~	~	~	~	~	~	~	~	A	~	A	~	~	~	~	~	~	~	~	~
Soap Solutions	A1	A	A	A	A	A1	A	A	A	A	~	A	A	A	A	A	B	A	~	~
Soda Ash (see Sodium Carbonate)	A	A	~	~	A	~	A	A	~	A	~	~	A	A	A1	A2	A1	A	~	~
Sodium Acetate	B1	A	A	A	A	NR	A	A	A	A	~	A	NR	A	B	A	B	NR	A	~
Sodium Aluminate	A	A	B	A	B	~	A	A	~	A	~	A	A	A	A	A	A	~	~	~
Sodium Benzoate	~	~	A1	A1	~	~	~	~	~	A2	~	A2	A1	A2	B	A	A1	~	~	~
Sodium Bicarbonate	A1	A	B1	A1	A	~	A	A	A	A	~	A	A	A	A1	A2	A	A	A	A
Sodium Bichromate	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Sodium Bisulfate	C	A	B2	A	C	~	A	A	~	A	~	A	A	A	B2	A2	A	A	A2	~
Sodium Bisulfite	B1	A	B	A	B	~	A	A	~	A	~	A	A	A	A2	A2	A	A	~	~
Sodium Borate (Borax)	B	A	A	B	A	A1	A	A	~	A	~	A	A	A	A1	A	A	A	~	A
Sodium Bromide	C	~	~	A1	B	~	~	~	~	A2	~	A2	A1	A2	~	A	A1	~	A1	~
Sodium Carbonate	A	A	A	A1	B	A1	A	A	A	A	~	A	A	A	A	A2	A	A	A	A
Sodium Chlorate	B	A	B1	A	B	~	A	A	A	A	~	C	A	A	B	A	A	C	~	~
Sodium Chloride	B	A	A	A	B	~	A	A	A	A	~	A	A	A	A	A	A	A	A	A
Sodium Chromate	B	A	A	~	B	~	A	A	~	A	~	A	A	A	A	~	A	~	A	~
Sodium Cyanide	B1	A	A	A	A	A1	A	A	~	A	~	A	A2	A	A	A2	A1	A	A	A
Sodium Ferrocyanide	B	~	A	~	~	~	~	~	~	A	~	A	A	A	A	A	A	~	~	~
Sodium Fluoride	NR	~	A	A	C	~	~	~	~	A1	~	A	A	A1	A1	A	A	~	~	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Sodium Hydrosulfite	A	~	A	~	C	~	~	~	~	A	~	~	A	A	C	B	B	C	~	~
Sodium Hydroxide 20%	B2	B	B	A1	A2	A1	B	B	A	A	C	A2	B1	A	A	B	B2	A2	A	~
Sodium Hydroxide 50%	B1	B	B	B	B2	~	B	B	A	A	~	~	B1	A	A1	B1	B2	A1	B	~
Sodium Hydroxide 80%	B1	B	A1	NR	NR	~	B	B	~	A1	~	A2	B1	A1	NR	B1	B1	A1	A	C
Sodium Hypochlorite 100%	NR	A	B	A	NR	~	A	A	A	A	~	C	A1	A	NR	B1	C	B	A	A
Sodium Hypochlorite (<20%)	C	A	A	A	NR	~	A	A	A	A	~	B	A1	A	B	B	C	B	A	A
Sodium Hyposulfate	A	~	~	~	NR	~	~	~	~	A	~	~	~	A	~	~	C	~	~	~
Sodium Metaphosphate	A	~	~	~	A	~	~	~	~	A	~	A	A	A	A	A	B	A	~	~
Sodium Metasilicate	A	~	A	~	B	~	~	~	~	A	~	~	A	A	A	A1	A	~	~	~
Sodium Nitrate	B1	A	B	A	C	A1	A	A	A	A	~	C	A	A	A1	A	B	NR	A	A
Sodium Perborate	B	~	B	~	NR	~	~	~	~	A	~	C	A	A	B	A	B	B	A	~
Sodium Peroxide	A	~	B	~	NR	NR	~	~	A	A	~	A	A	A	B	A	B1	NR	A	~
Sodium Phosphate	~	~	~	A	~	NR	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Sodium Polyphosphate	B	~	A	A	C	~	~	~	~	A	~	A	A	A	A	A	B	NR	A	~
Sodium Salts	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Sodium Silicate	A	A	B	A	A	A1	A	A	A	A	~	A	A	A	A	A	A	A	A	~
Sodium Sulfate	B1	A	B	A	C	A1	A	A	A	A	~	A	A	A	A	A	A	A	A	~
Sodium Sulfide	NR	A	B1	A	NR	~	A	A	A	A	~	A	A2	A	A	A2	A	A	A1	~
Sodium Sulfite	A	~	B	A	C	~	~	~	A	A	~	A	A2	A	A	A	A	A	A	~
Sodium Tetraborate	A	~	~	~	~	A	~	~	~	A	~	~	A	A	A	A	B	A	~	~
Sodium Thiosulfate	~	A	~	~	~	~	A	A	~	~	~	~	~	~	~	~	~	~	A	~
Sodium Thiosulfate (hypo)	B	A	A2	A	NR	~	A	A	~	A	~	A	A	A	B	A2	A2	A	~	~
Sorghum	A	~	~	~	NR	~	~	~	~	~	~	~	A	~	A	~	A	~	~	~
Soy Sauce	A	~	~	~	A	~	~	~	~	~	~	~	A	~	A	~	A	~	~	~
Soybean Oil	A	~	A	A	A	~	~	~	~	A	~	A	A	A	A	C	C	A	~	~
Sperm Oil (whale)	A	~	~	A	A	~	~	~	~	A	~	~	A	A	A	~	NR	~	~	~
Stannic Chloride	NR	A	B	A	NR	~	A	A	A	A	~	A	A	A	A	A	C1	B	A	~
Stannic Chloride 5%	~	~	~	~	~	NR	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Stannic Fluoborate	A	~	~	~	NR	~	~	~	~	~	~	~	A	~	A	~	A	~	~	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Stannous Chloride	A2	A1	B	A	NR	~	A1	A1	A	A	~	~	A	A	A	C	A1	B	A	~
Starch	A	~	~	~	A	A1	~	~	A	A	~	A	A	A	A	A	A	~	A	A
Steam - 3000F	~	A	~	~	~	A	A	A	A	~	B	~	~	~	~	~	~	~	~	~
Stearic Acid	A	~	B	A	C	A	~	~	A	A	~	A	A1	A	B	B	B1	B	~	~
Stoddard Solvent	A	A	A	A	A	A	A	A	~	A	~	A	A	A	A	NR	C1	NR	A	~
Styrene	A	~	NR	~	A	A1	~	~	A	A	~	A	B	A	NR	NR	NR	NR	~	~
Sugar (Liquids)	A	~	A	~	A	A	~	~	~	A	~	A	A	A	A	A	A	A	~	~
Sulfate (Liquors)	B	~	B	~	NR	~	~	~	~	A	~	A	A1	A	A2	A	B	B	~	~
Sulfinol	~	A	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Sulfites	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Sulfolane	~	A	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Sulfur	~	~	~	~	~	A	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Sulfur Chloride	NR	~	A	NR	NR	NR	~	~	A	A	~	NR	A	A	NR	NR	NR	C	A	~
Sulfur Dichloride	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Sulfur Dioxide	A1	A	C	A	B	A1	A	A	A	A	~	A	A	A	NR	A2	B	B	A	~
Sulfur Dioxide (dry)	A1	A	B	A	A	A1	A	A	A	A	~	A	A	A	NR	A2	NR	B	A	~
Sulfur Hexafluoride	~	~	~	~	~	~	~	~	A	~	~	~	~	~	B	B	A	B	~	~
Sulfur Trioxide	C	~	~	~	A	~	~	~	A	A	~	B	A	A	NR	C2	NR	B	~	~
Sulfur Trioxide (dry)	A	~	B	NR	B	~	~	~	~	A	~	NR	A	A	NR	C1	NR	B	~	~
Sulfuric Acid (< 10%)	B	A	B1	NR	NR	A	A	A	~	A	~	A1	A	A	A1	A	B2	C	A	~
Sulfuric Acid (10 - 75%)	NR	A	B1	NR	NR	A	A	A	B	A		A1	A2	A	B1	B2	B1	NR	A	~
Sulfuric Acid (75 - 100%)	NR	A1	B1	NR	NR	~	A1	A1	C	A	C	C1	A1	A	C	B1	NR	NR	A	A
Sulfuric Acid (cold concentrated)	B	A1	A1	NR	NR	~	A1	A1	~	A	~	NR	B	A	NR	C	NR	NR	A	~
Sulfuric Acid (hot concentrated)	C	NR	NR	NR	NR	~	NR	NR	~	A	~	NR	A2	A	NR	NR	NR	NR	A	~
Sulfurous Acid	B	A	B	A	NR	~	A	A	A	A	~	A	A	A	B1	B	C	NR	A	~
Sulfonyl Chloride	~	~	~	~	~	~	~	~	~	A	~	~	~	A	~	~	~	~	~	~
Sulphurous Spray	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Tallow	A	~	~	~	~	A1	~	~	A	A	~	A	A	A	A	A	B	~	~	~
Tannic Acid	A	A	B1	A	A	A1	A	A	~	A	~	A	A	A	A	A	A	B	A	A
Tannic Acid 10%	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~

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	Chemicals																			
	Body					Gears and Bearings							O-Rings							
Tanning Liquors	A2	~	B	A	A	~	~	~	~	A	~	A	A	A	B1	B	A	B	~	~
Tanning Oil	A	~	~	~	A	~	~	~	~	~	~	~	A	~	A	~	NR	~	~	~
Tar	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Tartaric Acid	C2	A	B	A1	A	A	A	A	A	A	~	A	A	A	A	B	A2	A	A2	A
Tetrachloroethane	A2	~	A	A	~	~	~	~	~	A	~	A	A	A	NR	NR	NR	NR	A	~
Tetrachloroethylene	A2	~	~	~	~	~	~	~	~	A	~	A	A	A	NR	NR	NR	NR	A	~
Tetraethyl Lead	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Tetrahydrofuran	A	A	A	B	NR	A	A	A	A	A	A	A	NR	A	NR	NR	NR	NR	A1	~
Tin Salts	NR	~	C	A	~	~	~	~	~	A	~	~	A	A	A	B	~	B	~	~
Titanium Tetrachloride	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Tolene (Toluol)	A	A	A	A	A	A	A	A	A	A	A	A	C	A	NR	NR	NR	NR	B2	A
Tomato Juice	A	A	~	~	C	A	A	A	~	A	~	A	A	A	A	A	A	~	A	~
Transformer Oil	A	~	~	~	A	~	~	~	A	A	~	A	A	A	A	NR	B	B	~	~
Trichloroacetic Acid	C	A	B	NR	~	NR	A	A	~	A	~	A	C	A	~	B	NR	NR	A	~
Trichloroethane	B	~	A	A	A	~	~	~	A	A	A	A	A	A	NR	NR	NR	NR	A	~
Trichloroethylene	B	A1	A	A	A	A1	A1	A1	A	A	~	A	A	A	NR	NR	NR	NR	A	A
Trichloropropane	A	~	A	~	A	~	~	~	~	A1	~	~	A	A1	NR	~	A	~	A	~
Trichlorotrifluoroethane	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~
Tricresylphosphate	B	~	A	B	A	~	~	~	~	A	~	A	A2	A	NR	A	C	C	~	~
Triethyl Phosphate	~	A	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~	~
Triethylamine	A	~	~	~	A	~	~	~	~	A	~	A	NR	A	C	A	A	~	A	~
Trifluoromethyl Sulfonic Acid	~	~	~	~	~	~	~	~	C	~	~	~	~	~	~	~	~	~	~	~
Trisodium Phosphate	B	A	A	~	C	A	A	A	~	A	~	A	A	A	A	A	A	A	~	~
Turbine Oil	A	~	~	A	A	~	~	~	~	A	~	~	A	A	B	A	NR	NR	~	~
Turpentine	A	A	B	B	C	A	A	A	A	A	~	A	A	A	~	NR	NR	NR	A	~
Turpentine (dry)	~	A	~	~	~	~	A	A	A	~	~	~	~	~	~	~	~	~	~	~
Urea	B	A	B	A	~	~	A	A	A	A	B	A	A	A	B	A	B	B	~	~
Uric Acid	B	~	B	A	~	A	~	~	~	A	~	A	~	A	~	~	A	~	~	~
Urine	A	~	~	~	C	~	~	~	~	A1	~	A	A1	A1	A1	A1	NR	~	~	~
Varnish	A	~	A	~	A	A	~	~	A	A	~	A	A	A	B	NR	NR	NR	A	~
Vaseline	~	~	~	~	~	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~

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	Chemicals					Body					Gears and Bearings					O-Rings					
Vegetable Juice	A	~	~	~	C	A	~	~	~	A	~	~	A	A	A2	A	~	B	~	~	
Vegetable Oil	~	~	~	~	~	A1	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Vinegar	A	A	A	A	C	A	A	A	A	A	~	A	A	A	B	A	B	A	A	A	
Vinyl Acetate	B	~	~	~	~	~	~	~	~	A2	~	A2	A1	A2	NR	B2	NR	NR	~	~	
Vinyl Chloride	A1	~	A2	A	~	~	~	~	~	A2	~	A2	A1	A2	NR	C	NR	~	~	~	
Water, Acid, Mine	B	A	A	A	C	A	A	A	~	A	~	A	A	A	A	A	C	B	A	~	
Water, Chlorinated	~	~	~	A	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	
Water, Deionized	A2	A	A2	A2	~	A	A	A	~	A2	~	A2	A1	A2	A1	A1	A	~	A1	~	
Water, Distilled	A	A	A	A	NR	~	A	A	A	A	~	A	A	A	A	A	A	C	A	~	
Water, Fresh	A	A	A	A	A	~	A	A	~	A	A	A	A	A	A	A	A	A	B	A	~
Water, Salt	B	A	A	A	NR	A	A	A	~	A	~	A	A	A	A	A	A	B	A	~	
Water, Tap	~	A	~	~	~	~	A	A	A	~	A	~	~	~	~	~	~	~	~	~	
Wax	~	~	~	~	~	A1	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Weed Killers	A	~	~	~	C	~	~	~	~	~	~	~	A	~	A	~	C	A	~	~	
Whey	A	~	~	~	~	~	~	~	~	A	~	~	A	A	A	~	~	~	~	~	
Whiskey & Wines	A	~	~	A	C	A	~	~	A	A	~	A	A	A	A	A	C	A	A	A	
White Liquor (Pulp Mill)	A	~	A	~	NR	~	~	~	~	A	~	A	A	A	A	~	A	A	~	~	
White Water (Paper Mill)	A	~	~	~	A	~	~	~	~	~	~	~	A	~	~	~	A	~	~	~	
Wines & Spirits	~	~	~	~	~	A1	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Xylene	B	A	A	A	A	A	A	A	A	A	~	A	NR	A	NR	NR	NR	NR	A	~	
Yeast	~	~	~	~	~	A1	~	~	A	~	~	~	~	~	~	~	~	~	~	~	
Zinc Chloride	B	A	B	A1	NR	NR	A	A	A	A	~	A	A	A	A	A	A	B	A	~	
Zinc Hydrosulfite	A	A	~	~	NR	~	A	A	~	A	~	~	~	A	A	A	A	~	~	~	
Zinc Sulfate	A	A	A2	A2	C	A	A	A	A	A	~	A	A	A	A	A	A	A	A	A	