



## CHEMICAL RESISTANCE GUIDE

This Chemical Resistance Guide is offered to assist in selecting pump materials that are most resistant to the chemicals that may be used with a FLOJET pump.

The information is based on FLOJET laboratory tests, field testing programs and general data from industry sources. It should be used only as a guide in the selection of pump materials. Suitability for the application should be determined by actual use and is the full responsibility of the customer. No warranty, expressed or implied, can be extended by FLOJET where failure is caused by chemical attack on pump materials. Temperature, aeration, concentration and other factors may change the effect of the specific fluid on the pump materials. Data shown is based on results at ambient temperatures, unless otherwise noted. Flojet recommends the use of our Soak Test kit number F100-168, available for free upon your request.

### RATING SYSTEM

**The "A" rating** indicates little effect on the physical properties of the material (Generally Satisfactory).

**The "B" rating** indicates minor to moderate effect (Generally Satisfactory But Should Be Qualified By Testing).

**The "C" rating** indicates a change in the physical properties in excess of acceptable tolerances could occur (Generally Not Satisfactory, Must Be Qualified By Testing).

**The "D" rating** indicates rapid physical deterioration, swelling of check valves, diaphragm or chemical attack on the pump housing material (Not Satisfactory).

**Where no rating is shown** data is not currently available, pump materials should be qualified by testing.

It is recommended that the pump be thoroughly flushed with water or other neutralizing agent after each use whenever possible.



# Customer Tools

	PLASTICS			ELASTOMERS			ALLOYS			PLASTICS			ELASTOMERS			ALLOYS												
	POLYPROPYLENE	NYLON	POLYETHYLENE	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE		EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	NYLON	POLYETHYLENE	POLYETHYLENE		ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY		
Acetaldehyde	A	A	D			C	D	A	B		A	A																
Acetamide	A	A	A			B	A	B	A		A																	
Acetate Solvents (crude)	D	A	A			D	D	C	V		A																	
Acetate Solvents (pure)	D	A	B			D	D	C	B		A																	
Acetic Acid, Glacial	A	D	A			D	C	B	B		A																	
Acetic Acid, 10%	A	C	A			C	B		B		A																	
Acetic Acid, 20%	A	B	A			C	B	B	B		A																	
Acetic Acid, 50%	A	D	A			C	A		B		A																	
Acetic Acid, 80%	B	D	A			C	C	B	A		A																	
Acetic Acid, pure	A	D	A			D	C	V	V	A	A	A																
Acetic Anhydride	C	A	C			D	D	C	C		A	A																
Acetone	A	A	C	A		D	D	B	A		A																	
Acetophenone	C					D	C		A		B																	
Acetyl Chloride	D	D	D			A	D	C	D		B																	
Acetylene	A	A	A			A	B	B	A		A																	
Acetylene Tetrabromide	A		A			A	D				A																	
Acetylsalicylic Acid	A	A									A																	
Acrylonitrile	A	A	A			D	D	D	D	A	B																	
Adipic Acid						A																						
Aero Lubriplate						A	A	B																				
Aero Safe 2300						D	D	C																				
Alcohol - Amyl	A	A	B			C	B	D	A																			
Alcohol - Benzyl	A	D	D			A	D		B		A	A																
Alcohol - Butyl	A	A	A			A	A	B	B		A	A																
Alcohol - Diacetone	A	A	B			C	D	D	A		A	A																
Alcohol - Ethyl	A	A	B			B	C	B	A		A	A																
Alcohol - Hexyl		A	A			B	A	B			A	A																
Alcohol - Isobutyl	A	A	A			A	B	A	A		A	A																
Alcohol - Isopropyl	A	B	A			A	B	A	A		A	A																
Alcohol - Methyl	A	A	A			C	A	A	A		A	A																
Alcohol - Octyl	A	A	A			B	B	B	A		A	A																
Alcohol - Propyl	A	B	A			A	A	A	A		A	A																
Aluminum Chloride, 20%	A	C	B			A	A	B	A		C	A																
Aluminum Chloride	A	D	B			A	A	B	A		C	B																
Aluminum Citrate																												
Aluminum Fluoride	A	A	A			C	A	B	A		C																	
Aluminum Formate						D	D																					
Aluminum Hydroxide	A	A	A			B	A		A		A																	
Aluminum Nitrate	A	A	B			B	A																					
Aluminum Oxychloride	A					D																						
Aluminum Phosphate						A	A																					
Aluminum Potassium Sulfate 10%	A	D	A			A	A	A	A		B	C																
Aluminum Potassium Sulfate	A	D	A			A	A	A	A		A																	
Aluminum Sulfate	A	A	A			A	A	A	A		B	B																
Amines	B	D				D	D	B	B																			
Ammonia, 10%	A	A	C			C	D			A																		
Ammonia, anhydrous	A	A	A			D	C	D	A		A	B																
Ammonia, liquid	A	B				D	C		A		A																	
Ammonia Nitrate	A	D				D	C		A		A																	
Ammonium Acetate						A	A		A																			
Ammonium Alum									B																			
Ammonium Bichromate									A		A																	
Ammonium Bifluoride	A	A	B			A	C	A			B	B																
Ammonium Bisulfide	A																											
Ammonium Carbonate	A	A	B			A	C	A			B	B																
Ammonium Casenite											A																	
Ammonium Chloride	A	C	A			A	B		A		C	B																
Ammonium Dichromate									A																			
Ammonium Fluoride									B																			
Ammonium Fluoride, 10%	A					A	A																					
Ammonium Fluoride, 25%	A																											
Ammonium Hydroxide	A	A	A	C		B	C	A	A		A	B																
Ammonium Metaphosphate	A		A			A	A		A		A																	
Ammonium Nitrate	A	B	A			A	A		A		A	D																
Ammonium Oxalate		B					A				A																	
Ammonium Persulfate	A	C	A			B	C		B		A	D																
Ammonium Phosphate, Dibasic	A	C	A			A	A	A	A		C																	
Ammonium Phosphate, Monobasic	A	B	A			A	A	A	A		C																	
Ammonium Phosphate, Tribasic	A	B	A			A	A	A	A		B																	
Ammonium Sulfate	A	A	A			A	A	A	A		B	B																
Ammonium Thiosulfate			A				A				A																	
Amyl Acetate	C	A	A			D	D	D	A		A	A																
Amyl Alcohol	B	A	B			B	B	D	A		A																	
Amyl Chloride	D	C	D			B	D	D			A																	
Aniline	C	C	B	B		D	D	D	B	A	B	B																
Anti-Freeze	D	D		A		A	A				A	A																
Aqua Regia	B	D	C			B	D	D			D	D																
Arochlor	D	A	B			A	C	B	B		B	A																
Aromatic Hydrocarbons	D		D			A	C	D	D		B																	
Arsenic Acid	A		B			A	A	A	A		B	B																
Asphalt	B	A	C			A	B	D	D		A																	
Barium Carbonate	A	A	B			A	A		A		B	B																
Barium Chloride	A	A	A			A	A	A	A		B	A																
Barium Cyanide	D		B			A	C		A		B																	
Barium Hydroxide	B	A	B			A	B	A	A		B	B																
Barium Nitrate	A	A	B			A	A		A		B	B																
Barium Sulfate	A	A	A			A	A	A	A		A	C																
Barium Sulfide	B	A	A			A	A	A	A		A																	
Beer	A	A	A	A		A	A	A	A		A	A																
Beer Sugar Liquid	B	A				A	A	A	A		A																	
Benzaldehyde	C	C	D			D																						



# Customer Tools

	PLASTICS		ELASTOMERS				ALLOYS		PLASTICS		ELASTOMERS				ALLOYS								
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY	
Butyl Acrylate Pure	D				D			A				A	A	B		A	A	A	A			C	B
Butyl Acrylate Saturated	D				D	C		D				A	A	A		A	A	A	A			A	B
Butyl Amine	D				D	C	B	D			B					A	B					D	B
Butylbenzine					A	D						A	D	B	A	A						B	C
Butyl Benzorte					A	D		A				A	C	B	A	A	A	A				B	B
Butyric Acid	C	B	C		C	D		B			B	B				A	A						
Calcium Bisulfate								A			A						D	D	D			A	B
Calcium Bisulfide	A	A			A	A		C			B					A	D	D				A	B
Calcium Bisulfite	B	A	A		A	A	A	D			A	B											
Calcium Carbonate	A	A	B		A	A	A	A			B	B											
Calcium Chlorate					A	C		A															
Calcium Chloride	A	A	B		A	A	A	A			B	B											
Calcium Hydroxide	A	A	B		A	B	A	A			B	A											
Calcium Hyprochloride	A	C	B		A	B	B	B			C	B											
Calcium Sulfate	A	D	B		A	A	A	A			B	B											
Calgon	A	A		B	A	A		A			A												
Cane Juice	C	A			A	A	A	A			A												
Carbolic Acid	B	D	B		A	C	D	B			B												
Carbon Bisulfide	C	A	D		A	C		D			B												
Carbon Dioxide (wet or dry)	A	A	B		A	C	B	B			A	A											
Carbon Monoxide	A	A	A		A	A	A	A			A	A											
Carbon Tetrachloride	D	C	D		B	C	D	D			B	B											
Carbonated Water	B	A	A		A	A					A												
Carbonic Acid	A	A	A		A	B	A	A			B	A											
Casein					A	A		A															
Castor Oil	A		C		A	A	A	B															
Catsup	A	A			A	A			C		A												
Caustic Lime					B	A		A															
Caustic Potash	A				D	A		A			B												
Caustic Soda	A				B	C		A			A												
Chloral Hydrate	A	D			A	C																	
Chloracetic Acid	C	D	C		D	C		B			C	A											
Chloric Acid		D			D						C												
Chloric Acid, 20%	D																						
Chlorinated Glue					A	C		B			A												
Chlorine Dioxide	C				D																		
Chlorine Dry	C	D	B		C	D	D	B			B	B											
Chlorine Gas Dry	D				B	C		D															
Chlorine Gas Wet	D				C	C		D															
Chlorine Liquid	C	D	C		A	C					D	A											
Chlorine Water	C		A		A	C		B			C	B											
Chlorobenzene (Mono)	C	B	C		A	D	D	D			B	B											
Chloroform	C	D	C		A	D	D	D			A	A											
Chlorosulfonic Acid	D	D	D		D	D	D	D			D	A											
Chlorox Bleach	D	A	B		A	B		B			A												
Chocolate Syrup	A	A			A	A					A												
Chresylic Acid, 50%			D		A	D																	
Chrome Alum			A		A	A	A																
Chromic Acid, 05%	C	D	B		A	D	C	A			A	A											
Chromic Acid, 10%	B	D	A		B	D	C	B			B	A											
Chromic Acid, 20%	C	D	A		B	C	C	B															
Chromic Acid, 30%	C	D	A		A	D	C	B			B												
Chromic Acid, 50%	C	D	C		A	D	C	B			B	D											
Chromium Alum	A				A			A															
Cider	A		B		A	A					A												
Citric Acid	A	A	A		A	A	A	A			A	A											
Citric Oils	A				A	A		B			A												
Cobalt Chloride					A	A	B	A															
Coconut Oil	A		A		A	A	A	A			A												
Coffee	A	A			A	A	A	A			A												
Copper Chloride												A	A	B		A	A	A	A			C	B
Copper Cyanide												A	A	A		A	A	A	A			A	B
Copper Fluoborate															A	B						D	B
Copper Nitrate												A	D	B		A	A					B	C
Copper Culfate												A	C	B		A	A	A	A			B	B
Cream												A	A			A	A						A
Cresols												D	D	C		A	D	D	D			A	B
Cresylic Acid												D	D	B		A	D	D	D			A	B
Cyanic Acid															A	C							
Cyclohexane												C	A	B		A	B	D	D	D		A	B
Detergents												B	A	A	B	A	A	A	A			A	B
Diacetone Alcohol												A				D	D	D	A				
Diazo Salts												A		A									
Dibutyl Amine																C	C	C	D				
Dibutyl Ether																C	C	D	C				
Dibutyl Phthalate												B	A			B	D	B	A				B
Dibutyl Sebaccate																C		B	B				
Dichlorethane												A	C	C		C							B
Dichloromethane																B	D		D				
Diesel Fuel												B		C		A	A	A	D	D		A	B
Diethylamine												B	A	D		C	C	B	B			B	
Diethyl Ether															B	A	C	D	D	C	A		B
Diethyl Oxide																D	B		D				
Diethylene Glycol												A	A	B		A	A	D	A			A	
Diglycolic Acid												A				A			A				
Diisobutyl Ketone																D			D				
Diisobutylene																A		D	D				
Diisooctyl Phthalate																B			B				
Diisopropyl Ketone																D		D	B				
Dimethyl Amine												A				D	B		C				
Dimethyl Benzene																A	D		D				
Dimethyl Ether																B	B		B				
Dimethyl Formamide												A	A		A	C	B	B	B	A			
Dimethyl Ketone																D	D		A				
Dimethyl Phthalate																B	C		B				
Dimethylamine												A				D			D				
Diocetyl Phthalate												D		D		A	D	C	B				
Dioxane												B	A			D	D	D	B				
Diphenyl Oxide												D		D		A	D	C	D			B	
Dyes														A		A							A
Epsom Salts												A	A	A		A	A	A	A			B	A
Ethane												C	D	D		A	A	D	D			A	A
Ethanolamine												B	A			D	B	B	B			A	B
Ether												D	A	C		C	D	D	C			B	B
Ethyl Acetate												B	A	B	A	D	D	B	B			B	A
Ethyl Chloride												C	A	B		A	A	D	A				





# Customer Tools

	PLASTICS		ELASTOMERS					ALLOYS			PLASTICS		ELASTOMERS					ALLOYS						
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE		316 STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM	SANTOPRENE	316 STAINLESS STEEL	HASTELLOY	
Nitric Acid (Concentrated)	D	D	C		A	D	D	D		A		A			A	A						A		
Nitrobenzene	B	B	C		B	D	D	D	A	A	C													
OILS																								
Aniline	A	A			C	D	D	B		A														
Anise		A								A														
Bay					A					A														
Bone	A				A	A				A														
Castor	A	A			A	A	A	B		A														
Cinnamon		A			A					A														
Citric		A			A					A														
Clove		A			A	A				A														
Coconut	A	A			A	A	A	C		A														
Cod Liver	A				A	A	B	A		A														
Corn	A	A	C		A	A	A	C		A														
Cotton Seed	A	A	B		A	A	A	C		A														
Creosote	C	D	C		A	B	D	D		B														
Diesel Fuel	A	A	C		A	A	D	D		A														
Fuel	C	A	C		A	B	C	D		A														
Ginger		A			A	A		A		A														
Hydraulic	D	A	C		A	A	C	D		A														
Lemon		A			A			D		A														
Linseed	A	A	C		A	A	A	C		A														
Mineral	B	A	B		A	A	C	D		A														
Olive	A	A	A		A	A	D	B		A														
Orange		A			A	A	D			A														
Palm		A			A	A				A														
Peanut	D	A			A	A	A	C		A														
Peppermint		A			A	D				A														
Pine	D	A			A	B	D	A		A														
Rape Seed	D				A	B	D	A		A														
Rosin	A	A	B		A	A				A														
Sesame Seed		A			A	A				A														
Silicone	A	A	A		A	A	C	A		A														
Soybean	A	A	A		A	D	A	C		A														
Sperm					A	A				A														
Tanning					A	A				A														
Oil, Turbine	B		C		A	B	D	D		A														
Oleic Acid	A	B	D	A	B	B	D	C		B	B													
Oleum	D	D	A		D	D	D			B														
Oxalic Acid	A	B	A		A	B	B	A		B	B													
Oxygen Gas	A				A	C	B	A																
Ozone	C		C		A	D	A	A																
Palmitic Acid	A	B			A	A	D	B																
Paraffin	A	A	B		B	A		D		A	A													
Pentane	D	A	D		A	A	D	D		C														
Perchloroethylene	C	C	D		A	D	D	D		A	B													
Petrolatum	C	D	B		A	A	C	C		A														
Phenols 10%	B	D	A	B	B	D	D	C		B														
Phenols 100%	A	D	B		D	D	D			A														
Phosgene Gas	C				D	D		A																
Phosgene Liquid	D				D	D		A																
Phosphoric Acid < 40%	A	D	B		A	C	D	B		A	A													
Phosphoric Acid > 40%	A	B	A		A	C	C	B		B	B													
Phosphoric Acid (crude)	B	B	C		A	C	C	B		C	A													
Phosphoric Acid (molter)	D									C														
Phosphoric Acid Anhydride	A																							
Phosphorus Trichloride	C	A			C	D		C		A	D													
Photographic Developer	A		B		A	A	A	B		A														
Phthalic Acid	D	B			A			A		B														
Phthalic Anhydride	D				A	C		A		B	A													
Plating Solutions - Antimony	A				A	A				A														A
Plating Solutions - Arsenic	A	A			A	A				A														A
Plating Solutions - Brass	A	A	B		A	A				A														A
Plating Solutions - Bronze	A	A			A	A		A		A									A					A
Plating Solutions - Cadmium	A	C			A	A																		A
Plating Solutions - Chrome	A	D			A			D																
Plating Solutions - Copper	A	C			A	A				A														A
Plating Solutions - Gold	A	A			A	A		A		A														A
Plating Solutions - Indium	A	D			A	A				A														A
Plating Solutions - Iron	A	D			A	A				A														A
Plating Solutions - Lead	A	D			A	A		A		A														A
Plating Solutions - Nickel	A	C			A	A				A														A
Plating Solutions - Silver	A	A			A	A		A		A									A					A
Plating Solutions - Tin	A	D			A	A				A														A
Plating Solutions - Zinc	A	D			A	A				A														A
Potash	A	A	B		A	A				A														A
Potassium Bicarbonate	A	A	A		A	A				A														B
Potassium Bromide	A	A	A		A	A		A		A														B
Potassium Carbonate	A	A	A		A	A				A														B
Potassium Chlorate	A		A		A					A														B
Potassium Chloride	A	B	A		A	A		A		A								A		A				B
Potassium Chromate	A	A	A		A	A		A		A														B
Potassium Cyanide Solutions	A	A	A		A	A		A		A														B
Potassium Dichromate	A	D	A		A	A		A		A														B
Potassium Ferrocyanide	A	B	A		A	A		A		A														B
Potassium Hydroxide	A	C	A		B	B		C		A														B
Potassium Iodide	A				A	A		A		A														A
Potassium Nitrate	A	B	B		B	A		A		A														B
Potassium Perborate	A		A		A	B	D	A		A														
Potassium Perchlorate	A		A		A			A		A														
Potassium Permanganate	A	D	A		B	A		A		A														B
Potassium Persulfate	A		A		A	A		A		A														
Potassium Sulfate	A	A	A		A	A		A		A														B
Potassium Sulfide	A	A	A		A	A		A		A														A
Potassium Thiosulfate					A	A				A														
Propane	B	A			A	A		D		D														A
Propanol					A	A		A		A														
Propargyl Alcohol	A		A																					
Propyl Acetate						D	D	D		B														
Propylene					A	D		D		D														
Propylene Dichloride	C		C		D																			



# Customer Tools

	PLASTICS		ELASTOMERS				ALLOYS			PLASTICS		ELASTOMERS				ALLOYS						
	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON	BUNA	SILICONE	EPDM		SANTOPRENE	316 STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	NYLON	POLYETHYLENE	ACETAL COPOLYMER	VITON		BUNA	SILICONE	EPDM	SANTOPRENE
Sodium Acetate	A	B	B		D	B	D	A		B		C	A	C		D	D	B	D		A	B
Sodium Aluminate	A	A	A		A	A		A		A	B	C	A	C	A	A	D	D	B		A	A
Sodium Bicarbonate	A	A	A		A	B	D	A		B	B	A	A	A		A		D			A	A
Sodium Bisulfate	A	A	A		A	B		A		B	B	C	C			A	D	D			A	
Sodium Bisulfide	A	A	A		A	A	A	A		B		C	C	C		A	C	D	D	D	B	B
Sodium Borate	A	A	A		A	A	A	A		B		A	A			A	A				A	A
Sodium Carbonate	A	B	B	A	A	A	A	A		A	B	A	A	B		B	D	C	A		A	
Sodium Chlorate	A	D	B		A	A		A		B		D	A			A	A	A			A	
Sodium Chloride	A	A	A	B	A	A	A	A	A	B	A	B	A	C		A	A	D	D	C	A	B
Sodium Chromate		D			A	A				B		D										
Sodium Cyanide	A	A	A		A	A	A	A		A		A	A	C		A	B	D	D		A	A
Sodium Hydroxide 20%	A	A	A	A	B	B	B	B	A	A	A	A	A	A		A	C				C	
Sodium Hydroxide 50%	A	A	A	B	B	B	B	B	A	A	B	A	A			A	D	C				
Sodium Hydroxide 80%	A		B	C	B	B		B		B		A	B	A		A	A	B	A		A	A
Sodium Hypochlorite < 20%	B	D	A	D	A	B	B	B		C		B	D	B		A	B	B	B	D		
Sodium Hypochlorite 100%	B	D	B		A	B	B	B	D			B	D	B		A	B	B	B	D		
Sodium Hyposulfate									A	A		A	A									
Sodium Metaphosphate	A	A	A		A	A		A		A		A	A	A		A	A	A			A	
Sodium Metasilicate	A				A	A		A		A	A	A	A			A	A	B	A	A	A	A
Sodium Nitrate	A	A	A		A	B	D	A		B	B	A	A	A		A	A	B	A	A	A	A
Sodium Perborate	A	B	A		A	B	B	A		B	B	A	A	A		A	A	B	A		A	A
Sodium Peroxide	B	A	A		A	B	D	A		A	C	B	A	A		A	A	A	A		A	
Sodium Phosphate Alkaline	A	A			A	A		A		B		A	A	C		A	A	A			A	
Sodium Phosphate Neutral	A	A			A	A		A		B		A	A	C		A	A	A			A	
Sodium Polyphosphate	A	A	A		A	A	D	A		B		A	A	A		A	A	A			A	A
Sodium Silicate	A	A	A		A	A		A		A	C	A	A	A		A	A	A				
Sodium Sulfate	A	A	A		A	A	A	A		B	B	A	A	A		A	A	B	A		B	
Sodium Sulfide	A	A	A		A	A	A	A		B	B	A	A	A		A	A	D	A	A	C	B
Sodium Sulfite	A	D	B		A	A	A	A		B	D	A	C	A		A	A	D	A	A	C	B
Sodium Tetraborate		A	A		A	A				A		A	A			A	A	A			A	
Sodium Thiocyanate			A		A		A	D				A	C	A		A	A	A			A	
Sodium Thiosulfate	A	B	A	A	A	B		A		A		A	B	B		A	A	A			A	
Sorghum		A			A	A				A		A				A	A	A			A	
Soy Sauce		A			A	A				A		A				A	A	A			A	
Soybean Oil			A		A			A		A		A				A	A	A			A	
Stannic Chloride	A	B	A		A	A	B	A		D	B	A	B	A		A	A	D	A	A	C	B
Stannic Fluoborate					A	A				A		A				A	A	A			A	
Stannous Chloride	A	C	B		A	A	B	B		A	B	A	C	A		A	A	C	A		A	
Starch	A	A	B		A	C		A		A		A				A	A	A			A	
Stearic Acid	A	A	B		A	B	B	C		A	C	A	A	A		A	A	D	A	A	C	B
Stoddard Solvent	C	A	C		A	A	D	D		A		A				A	A	D	A		A	
Styrene		A			C	D	D	D		A		A				A	A	D	A		A	
Sugar (liquids)	A	A			A	A	A	A		A	B	A	C	A		A	A	D	A	A	C	B
Sulfate Liquors	A	B	A		A	A		A		B	B	A	B	A		A	A	A			A	
Sulfur	D	A	B		A	C		C				A				A	A	B			A	
Sulfur Chloride	C	A	C		A	D	C	D		D	A	A	C	A		A	A	D	A	A	C	B
Sulfur Dioxide Dry	A	B	A		A	D	B	A		A	B	A	D	A		A	A	D	A	A	B	
Sulfur Dioxide Wet	A	C	B		A	D	B	A		A	D	A	C	A		A	A	D	A	A	C	B
Sulfur Trioxide	D	A	C		A	D	B	C		A		A				A	A	D	A	A	C	B
Sulfuric Acid (to 10%)	A	C	A	C	A	D	D	B		B	C	A	D	A		A	A	D	A	A	C	B
Sulfuric Acid (10-75%)	A	D	A	D	A	D	D	B		D	C	A	D	A		A	A	D	A	A	C	B
Sulfuric Acid (75-95%)	C	D	B	D	A	D	D	A		D	C	A	D	A		A	A	D	A	A	C	B
Sulfuric Acid (95-100%)	C	D	B	D	A	D	D	D	A	D	A	A	D	A		A	A	D	A	A	C	B
Sulfurous Acid	A	D	B		A	B	D	B		C	C	A	D	B		A	A	D	A	A	C	B
Syrup	A				A	A				A		A				A	A	A			A	
Tallow	A	A	C		A	A				A		A				A	A	A			A	
Tannic Acid	A	C	B		A	A	B	A		A	B	A	C	B		A	A	B	A		A	B
Tanning Liquors	A	A	A		A	A		B		A	B	A	C	B		A	A	B	A		A	B
Tartaric Acid	A	B	A		A	A	A	B		C	B	A	C	B		A	A	A			A	
Tetrachlorethane	C	C			A	D	D			A		A				A	A	B			A	
Tetrahydrofuran												C	A	C		D	D	B	D		A	B
Toluene, Tuluol												C	A	C	A	A	D	D	B		A	A
Tomato Juice												A	A	A		A		D			A	A
Trichloroethane												C	C			A	D	D			A	
Trichloroethylene												C	C	C		A	C	D	D	D	B	B
Trichloropropane																A	A				A	A
Tricresylphosphate												A	A	B		B	D	C	A		A	
Triethylamine												D	A			A	A	A			A	
Turpentine												B	A	C		A	A	D	D	C	A	B
Urine												A	A	A		A	A	A			A	
Varnish												A	C	C		A	B	D	D		A	A
Vegetable Juice												A				A	C				C	
Vinegar												A	C	B		A	B	A	A		A	B
Vinyl Acetate																D	D	B				
Vinyl Chloride														A		A	D	C				A
Water Acid Mine												A	B	A		A	A	B	A		A	A
Water Deionized												A		A		A	A	A			A	B
Water Distilled												A	A	A	B	A	A	A			A	A
Water, Fresh												A	A	A		A	A	B	A	A	A	A
Water, Salt												A	A	A		A	A		A	A	A	A
Weed Killers												A				A	B				A	
Whey																A	A	A			A	
Whiskey & Wines												A	A			A	A	A			A	
Xylene												C	A	C		B	D	D	D	C	A	B
Xylol												D				A	C	D	D			
Yeast												A		A		A	A					
Zeolite																A	A	B				
Zinc Acetate												A				C	B	A			B	
Zinc Chloride												A	C	A		A	A	D	A	A	C	B
Zinc Hydrosulphite												A				A	A	A			A	
Zinc Sulfate												A	C	B		A	A	A	A		A	B
Zirlite												A		B		C	B	A				

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