



Chemical Compatibility Chart

These pages show the general compatibility of certain corrosive materials with specific liquids and gases at ambient temperatures. Such variables as temperature, flow rates and pressures as well as other operating conditions must be taken into account when using the charts in determining the general corrosiveness of these materials. Because of variables that may exist, it is recommended that the charts be used as a guide only.

Key to Ratings

A-Excellent **B-Good** **C-Fair** **D-Not Recommended** **Blank-Insufficient Data**

Corrosive Agent	Metals										Rubber & Elastomers							Plastics										
	Aluminum	Bronze	Ductile Iron	Durimet Alloy 20 & Carpenter 20	Hastelloy C	Iron & Cast Steel	Monel	Nickel	Ni-Resist.	Tantalum	Titanium	Zirconium	304 S. S.	316 S. S.	Buna N-Hycar.	Butyl	Hypalon	Natural Rubber	Neoprene	Viton	CPVC-High Temp.	Kynar	Nordel	Nylon	Polyethylene	Polypropylene	PVC-Normal Impact	Teflon
Sulphur Trioxide, (Wet)																												
Sulphurous Acid	C	B	D	A	A	D	D	D							D	D	D	D	B	A	A	B	D	C	A		A	A
Synthesis Gas	B	B	D	A	A	B									D	D	C	B	A	A	A	A	D	A		A	A	A
Tall Oil	B	B	D	A	A	B									D	D	C	B	A	A	A	A	D	A		A	A	A
Tannic Acid	C	B	D	A	A	C	A	A	B						C	D	B	C	B	A	A	A	D	A		A	A	A
Tar	A	A	C	A	A	A	A	A	A						B	D	D	D	B	A	A		D	A	D	A	A	A
Tartaric Acid	B	B	D	A	A	D	A	A	B	A	A				D	D	A	A	B	A	A		A	D	A	A	A	A
Tetraethyl Lead	B	B	C	A	A	C	A	A	B	A					D	D	C	B	A	A	A		D	A	C	C	D	A
Toluene or Toluol	A	A	C	A	A	A	A	A	A						D	D	D	C	A	D	A	D	A	A	C	C	D	A
Toluene Kersene	A	A	B	A	A	B									D	D	D	C	A	D	A	D	A	C	A		A	A
Tomato Juice	A	C	C			C			C						A	A	A	A	A	A	A	A		A	A	A	A	A
Transformer Oil	A	B	B			B			A						A	D	B	B	A					A	B	A	A	A
Tributyl Phosphate	A	A	D	A	A	A			A						D	D	D	D	D	D	D	C	D	A		D	D	A
Trichloroethylene	A	B	D	A	A	B	A	A	B						D	D	D	B	B	A			D	A	D	D	D	A
Triethanolamine						B									C	A	A	A	A	A	A	A		A	D	D	B	A
Trisodium Phosphate						D									A	A	A	A	A	A	A	A		A	A	A	A	A
Tung Oil	B	B	D	A	A	B	A	A	B						A	A	A	A	A	A	A	A		A	A	A	A	A
Turpentine	B	B	D	A	A	B	A	A	B						D	D	B	B	A	B	A	B	A	B	B	B	A	A
Urea	B	B	C	A	A	C			C						A	A	A	A	A	A	A	A		A	A	A	A	A
Urine															A	A	A	A	A	A	A	A		A	A	A	A	A
Varnish	A	A	C			C	A	A	B						A	D	B	A					A					A
Vegetable Oil, Edible	A	B	B			B	A	A	B						A	D	D	D					A	A				A
Vegetable Oil, Non-edible	A	B	B			B	A	A	B						A	D	D	D					A	A				A
Vinegar	C	B	D	A	A	D	A	A	C						A	A	A	A	A	C			A		A	A	A	A
Vinyl Acetate															D	B	D	D	D	D	D	A					D	
Water, Acid Mine	D	C	D	A	A	D	D		C						A	C	A	A	A	A	A	A		A	A	A	A	A
Water, Demineralized															A	A	A	A	A	A	A	A		A	A	A	A	A
Water, Distilled (Aerated)	A	A	D	A	A	D	A	A	C						A	A	A	A	A	A	A	A		A	A	A	A	A
Water, Fresh	A	A	C	A	A	C	A	A	B						A	A	A	A	A	A	A	A		A	A	A	A	A
Water, Potable	A	A	C	A	A	D	A	A	A						A	A	A	A	A	A	A	A		A	A	A	A	A
Water, Salt	B	B	D	A	A	D	A	A	B						A	A	A	A	A	A	A	A		A	A	A	A	A
Water, Sewage															A	A	A	A	A	A	A	A		A	A	A	A	A
Wax Emulsions	A	A	B			A									A	A	A	A	A	A	A	A		A	A	A	A	A
Waxes	A	A	A			A									A	A	A	A	A	A	A	A		A	A	A	A	A
Whiskey	D	A	D	A	A	D	A	A	D						A	A	A	A	A	A	A	A		A	C	A	A	A
White Liquor															A	A	A	B	A	A	A	A		A			A	A
Wines	D	A	D	A	A	D	A	A	D						A	A	A	A	A	A	A	A		A	A	A	A	A
Xylene or Xylol	A	A	C	A	A	B									A	C	D	D	C	A	D	B	D	A	D	D	D	A
Zinc Chloride	D	D	D	B	B	D	B	C	B	A	A	A	D	D	A	A	A	A	A	A	A	A		A	A	A	A	A
Zinc Hydrosulfide	D	C	B			A									A	A								A	A	A	A	A
Zinc Nitrate															A	A	A	A	A	A	A	A		A	A	A	A	A
Zinc Sulfate	D	B	D	A	A	D	B	A	B	A	A				A	A	A	A	A	A	A	A		A	A	A	A	A

Corrosive Agent	Metals										Rubber & Elastomers							Plastics											
	Aluminum	Bronze	Ductile Iron	Durimet Alloy 20 & Carpenter 20	Hastelloy C	Iron & Cast Steel	Monel	Nickel	Ni-Resist.	Tantalum	Titanium	Zirconium	304 S. S.	316 S. S.	Buna N-Hycar.	Butyl	Hypalon	Natural Rubber	Neoprene	Viton	CPVC-High Temp.	Kynar	Nordel	Nylon	Polyethylene	Polypropylene	PVC-Normal Impact	Teflon	
Acetaldehyde	B	D	D	A		C	C	A	B						D	A	A	D	C	D	D		A	A	A	A	D	A	
Acetate Solvents—Crude	A	A	B			C	A	A	B						D	A	D	D	D	D	D			D				A	
Acetate Solvents—Pure	A	A	B			C	A	A	B						D	A	D	D	D	D	D			D				A	
Acetic Acid—10%	B	C	D	A	A	C	C	C	A	A	A	B	A	D	A	A	A	C	C	D	B	B	A	D	C	A	A	A	
Acetic Acid—80%	B	C	D	A	A	C	C	C	A	A	A	B	A	D	A	A	A	C	C	D	B	B	A	D	C	A	A	A	
Acetic Acid—Aerated	B	D	D			D			D	A	A	A	A	B		A				D				D	A		A	A	
Acetic Acid—Air Free	B	B	D			D			D	A	A	A	A	B		A				D				D	A		A	A	
Acetic Acid, Crude	B	C	D	A	A	C	C	C	A	A	A	B	A	D	A	A	A	C	C	D	B	B	A	D	C	A	A	A	
Acetic Acid, Glacial	B	C	D	A	A	D	C	C	D	A	A	B	A	C	B	A	D	D	D	D	B	B	D	B	B	B	B	A	
Acetic Acid, Pure	B	C	D	A	A	C	C	C	A	A	A	B	A	D	B	A	D	C	D	D	B	B	D	C	A		A	A	
Acetic Anhydride	B	C	D	A	A	D	C	A	D	A	A	B	A	C	A	A	D	D	D	D	D	C		D	A	D	C	D	A
Acetone	A	A	B	A	A	A	A	A	A	A	A	A	A	D	A	A	A	C	D	D	D	D	A	A	D	C	D	A	
Acetophenone						D								D	D		A	C	D	D	B		C			B			
Acetyl Chloride						A								D	D		B	D	D	B		B							
Acetylene	A	B	B	A		A			A					A	A	B	A	D	B	A			A	A		A	A	A	
Acrylonitrile	B	A	C			A	A	A	A					A	A	D	C		C	C	D		B		D			A	
Air	A	A	C			A	A	A	A					A	A	A	B	A	A	B	A	A	A	A	A	A	A	A	A
Alcohol—Allyl	B	B	C			B	A	A	B					A	A	A	A	A	A	A	A	A		A	A	A	A	B	A
Alcohol—Amyl	B	B	C	A	A	B	A	A	B					A	A	A	A	A	A	A	A	A		A	A	A	A	B	A
Alcohol—Butyl	B	B	C	A	A	B	A	A	B					A	A	A	A	A	A	A	A	A		A	A	A	A	B	A
Alcohol—Ethyl	B	B	D	A	A	B	A	A	B					A	A	A	B	A	A	A	A	A		A	A	A	A	A	A
Alcohol—Methyl (Methanol)	B	B	D	A	A	B	A	A	B					A	A	A	B	A	A	A	A	A		A	A	A	A	A	A
Alcohol—Propyl	B	B	C	A	A	B	A	A	B					A	A	A	B	A	A	A	A	A		A	A	A	A	A	A
Allyl Chloride														D	D		D	D	B									D	
Alum	B	C	C	A		D	C		C					A	B	A	A	A	A	A	A		A	A	A	A	A	B	
Alum, Ammonium	B	C	D	A		D	C		C					B	B	A	A		A	A	A		A	A	A	A	A	A	
Alum, Chrome	B	C	D	A		D	C		C					B	B	A	A		A	A	A		A	A	A	A	A	A	
Alum, Potassium	C	C	D	A		D	C		C					B	B	A	A		A	A	A		A	A	A	A	A	A	
Alumina						B	A		A					B	B	A													
Aluminum Chloride (Dry)	B	B	D	A		D	A		B	A	A	A	D	D	A	A	A	A	A	A	A		A	A	A	A	A	A	
Aluminum Fluoride						D			D	B	A		D	A	D		C	A		A	B		A	A	A	A	A	A	
Aluminum Hydroxide						D			D	B	A		D	A	D		C	A		A	B		A	A	A	A	A	A	
Aluminum Nitrate															A	A	A	A	A	A	A								
Aluminum Sulfate	B	C	D	B		D	C		C	A	A	B	B																

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Asphalt Liquid	C	A	B		B	B		B		A	A	A	C		D	D	B	C		A		A	D	D		A	A	
Barium Carbonate	B	B	D		A	B		B		A	A	A	A			A	A	A		A		A	A		A	A	A	
Barium Chloride	D	B	D	A	A	C	B	A	A	C	C	C	A	A	A	A	A	A		A		A	A		A	A	A	
Barium Hydroxide	D	B	C	A	A	C	B	A	A	C	B	B	A	A	A	A	A	A		A		A	A		A	A	A	
Barium Sulfate	D	C	C	A	A	C	B	A	A	C	B	B	A	A	A	A	A	A		A		A	A		A	A	A	
Barium Sulfide	D	C	C	A	A	C	B	A	A	C	B	B	A	A	A	A	A	A		A		A	A		A	A	A	
Beer	A	B	D	A	A	D	A	A		A	A	A	A			A	A	A		A		A	A		A	A	A	
Beet-Sugar Liquors	A	A	C	A	B	A	A	B		A	A	A	A			A	A	A		A		A			A	A	A	
Benzaldehyde	A	A	C	A	A	B	A	A		A	A	A	D			A	D	D		B	B	D		B	D	D	A	
Benzene (Benzol)	B	B	C	A	A	A	A	B		A	A	A	C	D		A	D	D		B	B	D		B	D	D	A	
Benzene Sulfonic Acid																												
Benzoic Acid	B	B	D	A	A	D	C	A	C							A	D			A							A	
Black Sulfate Liquor	D	C	C	A	C	C	C	B																			A	
Bleach (12.5% active C12)			D	A	A																						A	
Borax			D	A	A																						A	
Borax Liquors	C	A	C	A	C	A	A	B																			A	
Boric Acid	B	B	D	A	A	D	B	A	B	A	A	B	A														A	
Brine (Acid)			D			B																					B	
Brines	B	B	C		C		B				B	B	A														A	
Bromic Acid																											A	
Bromine, Gas (Dry)	C	A	D	D	A	D	C	B	A	A	C	D	D	D		D	D	D		A	D	D		D	D	D	A	
Bromine (Wet)	D	B	D	A	D	C	D	A	A	C	D	D	D	D		D	D	D		A	D	D		D	D	D	A	
Bunker Oils (Fuel)	A	B	B		B			A																			A	
Butadiene	A	C	C	A	B	B		A			B	A	D	D		A	D	C		A	C	A	D	A	D		A	
Butane	A	A	C	B	A	A	A	A																			A	
Buttermilk	A	D	D		D																						A	
Butyl Acetate			B	A																							A	
Butyl Alcohol																											A	
Butylene	A	A	B	A	A	A	A																				A	
Butyric Acid	A	C	D	A	A	D	D	A	A																		A	
Calcium Bisulfite	C	B	D	B																							A	
Calcium Carbonate	C	C	D		A	D	A	B																			A	
Calcium Chlorate				A	A	B																					A	
Calcium Chloride	C	B	C	B	A	C	B	A	A	A	C	B	A	A		A	A	A		A	A	A	A	A	A	A	A	
Calcium Hydroxide	C	A	C	A	C	A	A	A	A	A	A	B	B	A	A	A	A	A		A	A	A	A	A	A	A	A	
Calcium Hypochlorite	C	D	D	B		D	C	D	A	A	B	D	C	C	B	A	D	C	B	A	A	A	A	A	A	A	A	
Calcium Nitrate																											A	
Calcium Sulfate	B	C	C	A	C	B		B			B	B	A														A	
Caliche Liquor																											A	
Cane Sugar Liquors																											A	
Carbolic Acid (Phenol)	A	B	D	A	A	D	A	A	C	A	A	A	C	A	A	D	C	A	C				D	D	A	B	A	
Carbon Bisulfide	A	C	B		B						B	B		D													A	
Carbon Dioxide	B	A	C	A		A																					A	
Carbon Disulfide			D			C																					A	
Carbon Tetrachloride (Wet)	C	D	D	A	B	D	B	A	C	A	A	B	C	A	D	D	A	B	A	D	A	D	A	D	D	B	A	
Carbonic Acid	A	D	D	A	A	D	B	A	A	A	B	B	A	A	A	A	A	A		A	A	A	A	A	A	A	A	
Castor Oil	A	A	B	A	A	B	A	A																			A	
Caustic Potash				A	A																						A	
Cellosolve																											A	
Cina Wood Oil (Tung)	A	C	D	A	A	C		B																			A	
Chlorinated Solvents (Dry)	D	C	C		C	A	A	B																			A	
Chlorine Gas (Wet)	D	D	D		D		D																				A	
Chlorine Gas (Dry)	B	C	D	B	A	B	C		A	A	C	B	B	C	A	C	D	A		A			A	D	D	C	A	
Chlorine Liquid																											A	
Chlorine Water, Saturated																											A	
Chloroacetic Acid	C	C	D		D		D	A	A	B	D	D	D		A	B	D	D		A	A	A	A	A	A	A	A	
Chlorobenzene	B	B	C	A		B	A	B																			A	
Chloroform	D	B	C	A	B	B	B		A	A	A	D	D	C	D	D	C	D	A	D	A	D	A	D	D	D	A	
Chlorosulfonic Acid (Wet)	D	D	D	D	A	D	B	C																			A	
Chrome Alum	C	C	B		B		B	A																			A	
Chromic Acid—10%	C	D	D	A		D		D																			A	
Chromic Acid—50%																											A	
Citric Acid	C	B	D	A	A	D	B	A	B	A	A	B	A	B	A	A	B	A	A								A	
Coconut Oil	B	B	D	A		C		B																			A	

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Road Tar	A	A	A		A			A																			A
Roof Pitch	A	A	A		A			A																			A
RP-1 Fuel	A	A	A		A			A																			A
Rubber Latex Emulsion	A	A	B		B			B																			A
Rubber Solvent	A	A	A		A			A																			A
Salicylic Acid	C	C	D		D			B																			A
Salt	B	B	C	A	A	C	A	A	B																		A
Sea Water	C	C	D	B	A	D	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sewage			D	A																							A
Shellac	A	A	B		A			A																			A
Silicone Oil																											A
Silver Cyanide	D	D	D		D			D																			A
Silver Nitrate																											A
Soap Solutions	C	A	D	A	A	A	B	B																			A
Sodium Acetate	B	B	D	A	A	C	B	B																			A
Sodium Aluminate	C	B	D	A		C		B	A	A																	A
Sodium Bicarbonate	B	B	C		C	A	A	A																			A
Sodium Bisulfate	D	B	D	A		D	A	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Bisulfite																											A
Sodium Borate	B	B	C		C		B																				A
Sodium Bromide	B	B	D		C		B	A	B	A																	A
Sodium Carbonate	C	B	D	A	A	B	A	A	B	A	A																A
Sodium Chlorate	C	B	C		C		B	A	B	A	A																A
Sodium Chloride	B	B	D	A	A	C																					

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Oils, Vegetable				B	A	C	B	A	B			B	B	B	A	D	B	A	A	A	A				D	B	A	
Oleic Acid	B	B	D	A	A	C	B	A	B			B	B	B	A	D	B	A	A	A	A				D	B	A	
Oleum	B	B	D	B			D	D				B	C	D			D	D						D	D	D		
Olive Oil	A	B	B				B	B				A	A	B	A	A	D	B	A	A				D	D	D		
Oxalic Acid	C	B	D	B			A	C	D	A	B	A	B	B	A	A	C	C	A	A				C	B	A		
Oxygen	A	A	C	A			B	A				A	A	B	A	A	B	B	A	A				A	A	A		
Ozone, (Dry)	A	A	D				A	D				A	D	A	A	C	B	A	A				A	C	A	A		
Ozone, (Wet)	B	B	C				C	A	B			A	A	D	A		C	B	A				A	C	A	A		
Paints & Solvents	A	A	A				C	A	A			A	A	A	A	A	A	A	A				A	C	A	A		
Palm Oil	A	B	C				C		B			B	A	A	A	B	D	B	A				A					
Palmitic Acid	B	B	D	A			C	A	A	B		B	A	A	A	B	D	B	A				A	B	A			
Paraffin	A	A	B				B		A			A	A	D	A	D	B	B					A	A				
Paraformaldehyde	B	B	B				B		A			B	B	B									A	A				
Paraldehyde	B	B	B				B		A			B	B	D	A	C	D	D					A					
Pentane	A	A	B				B		A			B	A	A	D	A	A	A					A					
Parchlorethylene	A	C	C	A			B		B			B	A	C	D	A	D	D	A				A					
Perchloric Acid													D												B	B		
Petrolatum	B	B	C				C		B			A	A	A	A	D	A	A					A	B	B			
Petroleum Oils, Refined	A	B	B				A		A			A	A	A	A	D	B	A					A					
Petroleum Oils, Sour	A	C	D	B	A	B	B		A			A	B	A	A	D	B	A					A					
Phenol	A	B	D	A	A		D	A	A	C	A	A	B	A	B	A	C	C	A	B	A	A	D	D	A	B	A	
Phosphoric Acid	D	D	D				C	D	A	B	A	A	D										A	A	A	A		
Photographic Solutions												A	A	B									A	A	A	A		
Phthalic Acid	B	B	C				C		C			B	B										A					
Phthalic Anhydride	B	B	C				C	A	A	B		B	B					B					A					
Picric Acid	C	B	D	A	A		D	C		D		B	B	B			B	C	A	D	B			C	D	A		
Pine Oil	A	B	B				D		B			A	A	C									A					
Pineapple Juice	A	C	C				C		B			A	A										A					
Plating Solutions, Brass												A	A										C	A	A			
Plating Solutions, Cadmium												A	A										C	A	A			
Plating Solutions, Chrome												A	A										C	A	A			
Plating Solutions, Copper												A	A										C	A	A			
Plating Solutions, Gold												A	A										C	A	A			
Plating Solutions, Lead												A	A										C	A	A			
Plating Solutions, Nickel												A	A										C	A	A			
Plating Solutions, Rhodium												A	A										C	A	A			
Plating Solutions, Silver												A	A										C	A	A			
Plating Solutions, Tin												A	A										C	A	A			
Plating Solutions, Zinc												A	A										C	A	A			
Potassium Alum, Sulfate	B	C	C	A			D	C		C		B	A										A	A	A			
Potassium Bicarbonate												A	A										A	A	A			
Potassium Bichromate												A	A										A	A	A			
Potassium Bisulfite	C	C	D				D		D			C	B	A									A					
Potassium Bromide	C	C	D				D		D			C	B	A									A					
Potassium Carbonate	C	B	B				D		B			A	A	A									A	A	A			
Potassium Chlorate	C	B	B				B		B			B	B	A									A	A	A			
Potassium Chloride	B	B	B				B	A	A	B	A	A	C	C	A	A	A	A	A	A				A	A	A		
Potassium Cyanide	D	D	C	A			B		A			A	B	A									A	A	A			
Potassium Dichromate	A	D	C				C		A	A		B	A	A									A	A	A			
Potassium Diphosphate	B	B	A				A		A			A	A										A					
Potassium Ferricyanide	B	D	C				C		C	A	A	B	B	A									A	A	A			
Potassium Ferrocyanide	B	D	C				C		C	A	A	A	B	A									A	A	A			
Potassium Fluoride												A	A										A	A	A			
Potassium Hydroxide	A		C	A	A		A	A				A	A	B	A	A	A	A	A	A			A	A	A			
Potassium Iodide	D	D	C				C		B	A	A	B	B										A	B				
Potassium Nitrate	B	B	C	A	A		B	B		B		A	B	A	A	A	A	A	A	A			A	A	A			
Potassium Permanganate	B	B	B				B		B			A	B	D	A	D	B	A	A	A			A	A	A			
Potassium Sulfate	A	B	C	A			B	B	A	B	A	A	B	A									A	A	A			
Producer Gas	B	B	B				B		A			B	B	A									A	A	A			
Propane (Gas)	A	A	C	A			B	A	A			A	A	A									A	A	A			
Propyl Alcohol	A	A	B				B		A			A	A	A	A	B	A	A	A	A			C		A	A		
Propylene Glycol	A	B	B				B		A			B	B	A									C	C		A		
Pyrogallic Acid	B	B	B				B		A			A	B										B			B		
Quench Oil	A	B	B				B		A			A	A										A					
Resins and Rosins	A	A	D	A	A		C		B			A	A										C	D				

Corrosive Agent	Metals										Rubber & Elastomers					Plastics												
	Aluminum	Bronze	Ductile Iron	Durimet Alloy 20 & Carpenter 20	Hastelloy C	Iron & Cast Steel	Monel	Nickel	NI-Resist.	Tantalum	Titanium	Zirconium	304 S. S.	316 S. S.	Buna N-Hycar.	Butyl	Hypalon	Natural Rubber	Neoprene	Viton	CPVC-High Temp.	Kynar	Nordel	Nylon	Polyethylene	Polypropylene	PVC-Normal Impact	Teflon
Coffee Extracts (Hot)	A	B	D	A			C		C			A	A	D	A		B											A
Coke Oven Gas	A	C	B				B		B			A	A	A			D											A
Copper Chloride	D	D	D				D		D			C	C	A	A		A											A
Copper Cyanide												A	A	A	A		A											A
Copper Nitrate	D	D	D				D		D			A	B	A	A		A											A
Copper Sulfate	D	D	D				D		D			A	B	A	A		A											A
Corn Oil	B	B	C				C		C			A	B	A	A		A											A
Cottonseed Oil	B	B	C				C		C			A	B	A	A		A											A
Creosote Oil	A	B	B	A			B		B			A	B	D	A		D						D	D				A
Creosol												A	C	A	A		D											A
Cresylic Acid	C	C	D	A			C		A			A	B	C	A		C											A
Crude Oil—Sour	A	C	C	A			C		A			A	B	C	A		C											A
Crude Oil—Sweet	A	B	B	A			B		A			A	A	A		A												A
Cyclohexane	A	A	C				A		A			A	A	C	D		A											A
Cyclohexanone																												A
Detergent Solution (Heavy-Duty)																												A
Detergents																												A
Diacetone																												A
Diacetone Alcohol	A	A	A				A		A			A	A	B	A		B											A
Diamylamine	B		C	A									A	A		B												A
Dibutyl Phthalate																												A
Diesel Fuels	A	A	B	A			A		A			A	A	A		A												

Corrosive Agent	Metals										Rubber & Elastomers						Plastics												
	Aluminum	Bronze	Ductile Iron	Durimet Alloy 20 & Carpenter 20	Hastelloy C	Iron & Cast Steel	Monel	Nickel	Ni-Resist.	Tantalum	Titanium	Zirconium	304 S. S.	316 S. S.	Buna N-Hycar.	Butyl	Hypalon	Natural Rubber	Neoprene	Viton	CPVC-High Temp.	Kynar	Nordel	Nylon	Polyethylene	Polypropylene	PVC-Normal Impact	Teflon	
Freon F-12			C	A		A						A	A	B	D		D	C	A	B		B			C	A			
Freon F-22			C	A		A						A	A	D	C		D			D		C	D			C	D		
Fructose			A											A												A			
Fruit Juices	B	B	D	A	A	D		C				A	A	A	A	A	A		A	A				A	A		A	A	
Fuel Oil	A	B	C	A	A	B		A				A	A	A	C		A	D	A	A		A	D	B	A	C	D	A	A
Furfural	A	A	C	A	A	B		A				A	A	A	C		A	D	A	D		C	B	B	A	D	D	A	A
Gallic Acid	A	C	D	A	A	D		A				A	A	B	B		A	A	B	B		B	B		C		A	A	
Gas, Manufactured	B	B	B			B		B				B	B	A		A	D	A	A		A						A	A	
Gas, Natural	B	B	B			B		B				A	A	A		A	D	A	A		A				B	A	A	A	
Gas Odorants	A	A	B			B		B				A	B	A		A	A	A		A				A	A	A	A	A	
Gasoline, Leaded	A	A	C	A	A	A		B				A	A	A		C	D	A	A		A	C	A	D	D	A	A	A	
Gasoline, Refined	A	A	C	A	A	A		B				A	A	A		C	D	A	A		A	C	A	D	D	A	A	A	
Gasoline, Sour	A	B	B			B		B				A	A	A			D	A	A		A	C	A	D	D	A	A	A	
Gasoline, Unleaded	A	A	B			A		B				A	A	A		D	A	A				C	A	D	D	A	A	A	
Gelatin	A	A	D	A		D		C				A	A	A		A	A	A				B	A	D	D	A	A	A	
Glucose	A	A	B	A		B		B				A	A	A		A	A	A				A	A	A	A	A	A	A	
Glue	A	B	A	A		A		A				B	B	A		A	A	A				A	C	A	A	A	A	A	
Glycerine (Glycerol)	A	B	C	A	A	B		A				A	A	A		A	A	A				A	C	A	A	A	A	A	
Glycols	A	B	B			B		A				B	B	A		A	A	A				A	C	B			A	A	
Grease	A	B	A			A		A				A	A	A	D	D	D	B	A			A	D	C	B		A	A	
Green Liquor								A				A	A	A		A	A	A						A					
Heptane	A	A	C	A		B		A				A	A	A	D	A	A	A				A	D	A	B	A	A	A	
Hexane	A	B	C	A		B		A				A	A	A	D	A	D	A				A	D	A	B	B	A	A	
Hexonal, Tertiary	A	A	A			A		A				A	A	A		A	A	A					C				A	A	
Hydraulic Oil (Petro)	A	B	C	A		A		A				A	A	A		A	D	B	A				A				A	A	
Hydrobromic Acid	D	D	D	D	A	D		D				D	D	D	C	A		A				A	A	A	A	A	A	A	
Hydrochloric Acid	D	D	D	D	B	D		C				A	D	D	D	C		A				A	C	D	A	B	A	A	
Hydrocyanic Acid	A	D	D	A	A	C		B				A	B	D			B					A	D	A	C	A	A	A	
Hydrofluoric Acid—48%	D	D	D	C	A	D		C				D	D	D	D	A		A	D	D		D	A	B	D	A	C	C	
Hydrofluoric Acid—100%												D	D	D	D	D		D	D			B	D		A				
Hydrofluosilicic Acid	D	A	D	C	A	D		C				D	C	C	C	A		B				A	D	A			A	A	
Hydrogen	A	B	C	A		B		B				A	A	A		A	B	A	A			A	A	A	B	A	A	A	
Hydrogen Cyanide	A	D	C	A	A	C		A				A	A	A		B						A						A	
Hydrogen Fluoride	D	D	D	C	A	D		A				D	D	D	A		D	D	D			D	D	D	C	D			
Hydrogen Peroxide (Dilute)	A	B	D	A		D		A				A	B	B	D		A	A				A	D	A	A	A		A	
Hydrogen Sulfide (Dry)	B	C	C	B	A	B		B				B	B	D			D	A	D			A	A	A	A	A	A	A	
Hydrogen Sulfide (Wet)	C	D	D	A		C		B				B	B	D			D	A	D			A	A	A	A	A	A	A	
Hypo Sodium Thiosulfate	B	C	C			D		C				A	A	A			A					A						A	
Hypochlorites, Sodium	C	D	D			D		D				C	C	D			C							A				A	
Illuminating Gas	A	A	A			A		A				A	A	A			A											A	
Ink	C	C	D	A		D		D				A	A	B			A	D	B	A				A	C			A	
Iodine, In Alcohol	D	D	D	B		D		D				C	C	D			A	D	D	B				A	D			D	
Iodine Solution	D	D	D	D	A	D		D				D	D	D			A	D	D	B				A	D			C	A
Iodoform	C	C	C			B		C				A	A	A			D	A				A		A	D			A	
Iso-Octane	A	A	B	A	A	A		A				A	A	A	D	A	D	A	D				D	A				A	
Isopropyl Acetate												C	B	A	D	D	D	D										A	
Isopropyl Alcohol	B	B	C	A	A	B		B				B	A	A	A	A	A	B					C	A				A	
Isopropyl Ether	A	A	C	A	A	A		B				A	A	A	D	A	C	D					D					A	
Jet Fuel	A	A	A			A		A				A	A	A	D	A	D	B	A	B			D	A				A	A
Kerosene	A	A	B	A	A	B		A				A	A	A	D	A	D	B	A	A			A	D	A			A	A
Ketchup	D	D	D			D		D				A	A					D	D					A				A	
Ketones	A	A	A			A		A				A	A	D			A	B	D	D			B		A			A	A
Kraft Liquor														A														A	A
Lacquers (and Solvents)	A	A	C	A	A	C		A				A	A	D			A	D	D				D	A				A	A
Lactic Acid—Concentrate	C	D	D	A		D		A				A	A	A			A	A	A			B	A	D			A	A	
Lactic Acid—Dilute	A	D	D	A	A	D		B				A	A	B	A			A	A			B	A	D			A	A	
Lard Oil	A	A	C	A	A	C		B				A	B	B	D		D	B				A	A					A	A
Lead Acetate	D	C	D			D		C				B	A	B			A	D	B	D		A	A				A	A	
Lemon Oil			D	A	A			A				A	A	C		D									D				
Linoleic Acid	A	B	B			B		B				A	A	A				C										A	A
Linseed Oil	A	B	C	A	A	B		A				B	A	B	A		A	D	B	A			A	B	A			A	A
Liquified Petroleum Gas	A	A	B			B		A				A	A	A			D											A	A
Lubricating Oils	A	B	A	A	A	A		A				A	A	A	D	A	D	B	A	A			A	D	A	C	A	A	A
Lubricating Oils (Syn.)	D							A				A	A	A			D	D	A	A			A	D				A	
Lye								A				A																	

Corrosive Agent	Metals										Rubber & Elastomers						Plastics												
	Aluminum	Bronze	Ductile Iron	Durimet Alloy 20 & Carpenter 20	Hastelloy C	Iron & Cast Steel	Monel	Nickel	Ni-Resist.	Tantalum	Titanium	Zirconium	304 S. S.	316 S. S.	Buna N-Hycar.	Butyl	Hypalon	Natural Rubber	Neoprene	Viton	CPVC-High Temp.	Kynar	Nordel	Nylon	Polyethylene	Polypropylene	PVC-Normal Impact	Teflon	
Magnesium Bisulfate	B	B	B			B		B				A	A				A	A										A	A
Magnesium Carbonate	D	B	D	A	A	C		B				A	A				A	A										A	A
Magnesium Chloride	D	B	D	A	A	C		B				A	A				A	A										A	A
Magnesium Hydroxide	D	B	C	A		B		A				A	A				A	A										A	A
Magnesium Nitrate	D	B	C	A		B		A				A	A				A	A										A	A
Magnesium Sulfate	B	B	C	A		B		A				A	A				A	A										A	A
Maleic Acid	B	B	B			B		B				A	A				A	A										A	A
Malic Acid	B	B	D			D		C				B	A				A	A										A	A
Malt Beverages	A	B	D	A	A	D		B				A	A				A	A										A	A
Manganese Salts	D	D	D			D		D				A	A				B	C										A	A
Mayonnaise	D	D	D			D		D				A	A				D											A	A
Mercuric Chloride	D	D	D	C	A	D		B				A	A				B	B										A	A
Mercuric Cyanide	D	D	D	A	A	D		B				A	A				B	B										A	A
Mercuric Nitrate	C	D	A	A		A		A				A	A				A	A										A	A
Mercury	C	D	D	A	A	A		A				A	A				A	A										A	A
Mercury Salts	D	D	D			D		D				A	A				A	A										A	A
Methane	A	A	B																										