



Both internal and external chemical environments need to be considered when evaluating this chemical resistance table. Chemical resistance of the selected plastic must be verified with the chemical(s) being used. Compatibility not only varies by material and chemical, but also by other variables such as: stress level, concentration and temperature.

One should also pay close attention to cleaning agents that are used to wipe down dust and dirt from piping systems. Some common cleaners may attack the piping material causing premature failure.

HOW TO USE THE CHEMICAL RESISTANCE TABLE

Example:
Alcohol, Isopropyl

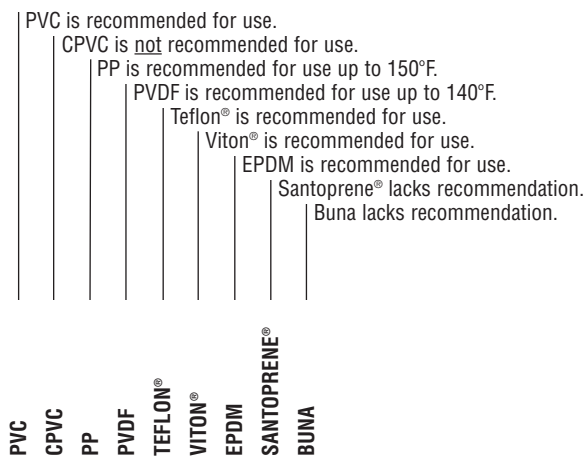
Table Key

R:
Recommended up to maximum temperature of material.

NR:
Not recommended.

Temperature (°F) listed:
Maximum temperature at which material is recommended.

Blank spaces:
Indicate lack of specific recommendations.



Alcohol, Isopropyl	R	NR	150	140	R	R	R		
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Chemical Resistance Table Trademarks: Teflon® is a registered trademark of DuPont. Only DuPont makes Teflon. Viton® is a registered trademark of DuPont Dow Elastomers. Santoprene® is a trademark of Monsanto Company, exclusively licensed to Advanced Elastomer Systems, L.P.



	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
1-Butylene				70						Aluminum Chloride	R	R	R	R	R	R	R	R	R
1-Octanol		NR								Aluminum Fluoride	73	R		R		R	R		R
AA-Dichlorotoluene		NR	150							Aluminum Hydroxide	R	R		R		R			
Acetaldehyde	NR	NR	120	NR		NR	NR		NR	Aluminum Nitrate	R	R	R	R		R	R		R
Acetamide		NR	73	75		NR	R		R	Aluminum Oxychloride	R	R		R		NR			
Acetic Acid, 10%	R	R		230	R	NR	R	R		Aluminum Potassium	R	R	150	R		R	R		
Acetic Acid, 20%	R	NR	R	230	R	NR	R	R		Aluminum Sulfate	R	R	R	R	R	R	R	R	R
Acetic Acid, 50%	73	NR		230	R	NR	R	R		Amines		NR							
Acetic Acid, 80%	73	NR	120	230	R	NR	R	R		Ammonia		NR	73		NR				
Acetic Acid, Glacial	NR	NR		150		NR	R		NR	Ammonia Water, 10%	73	NR	R	225	R	NR	R		NR
Acetic Anhydride	NR	NR		73		NR	R		R	Ammonia, Gas	NR	150	R	R	NR	R	R		
Acetone	NR	NR	73	NR	350	NR	70		NR	Ammonia, Liquid	NR	NR		NR	R	NR	R	R	
Acetonitrile	NR	NR		125						Ammonium Acetate	R	R	73	175	R	73	140	R	
Acetophenone	NR	NR	120	NR		NR	R		NR	Ammonium Alum	R	R		R					
Acetyl Bromide		NR		125						Ammonium Benzoate		R							
Acetyl Chloride	NR	NR		150		NR	NR		NR	Ammonium Bifluoride	R	R		150					
Acetyl Nitrile	NR	NR		150		NR	NR			Ammonium Bisulfide	R	R		R					
Acetylacetone		NR		NR						Ammonium Bromide		R		250					
Acetylene	R	NR		250		R	R			Ammonium Carbonate	R	R	R	R	R	R	R	R	NR
Acrylic Acid	NR	NR								Ammonium Chloride	R	R	R	R	R	R	R	R	NR
Acrylonitrile	NR	NR		73	R	NR	NR	R	NR	Ammonium Citrate		R							
Adipic Acid	R	R		150						Ammonium Dichromate		R		250					
Air	73	73	R	R	R	R	R			Ammonium Fluoride		R		R					
Alcohol, Allyl	NR	NR		125	R	NR	73		160	Ammonium Fluoride, 10%	R	R		R	R	R			
Alcohol, Amyl	NR	NR	R	R	R	150	R		NR	Ammonium Fluoride, 25%	73	R		R			140		
Alcohol, Benzyl	NR	NR	150	R		140	NR		NR	Ammonium Hydroxide	R	NR				73	NR		NR
Alcohol, Butyl, Primary	R	NR		R		R	R			Ammonium Hydroxide, 10%	R	NR	R	225	R	NR	R		NR
Alcohol, Butyl, Secondary	73	NR		R		R	R			Ammonium Metaphosphate	R	R		R		R	R		
Alcohol, Diacetone	NR	NR	120	70	R	NR	70		NR	Ammonium Nitrate	R	R	R	R	R	R	R	R	R
Alcohol, Ethyl	R	NR	180	R	R	NR	R		R	Ammonium Persulfate	R	73	150	75		R	NR		R
Alcohol, Hexyl	R	NR	R		R	R	R	R		Ammonium Phosphate	R	73		R	R	R	R	R	
Alcohol, Isopropyl	R	NR	150	140	R	R	R			Ammonium Sulfamate		R							
Alcohol, Methyl	R	NR	R	R	R	NR	R	R	R	Ammonium Sulfate	R	R	R	R	R	R	R	R	R
Alcohol, Propargyl	R	NR								Ammonium Sulfide	R	R		125		NR	R		
Alcohol, Propyl	R	NR	R	150	R	R	R		R	Ammonium Tartrate		R							
Alcohols		NR								Ammonium Thiocyanate	R	R		R		R			
Allyl Alcohol	NR	NR		125	R	NR	73		160	Amyl Acetate	NR	NR	NR	150	R	NR	R	R	NR
Allyl Chloride	NR	NR		230		73				Amyl Alcohol	NR	NR	R	R	R	R	R	R	NR
Alum	R	R		R	R	R	R	R		Amyl Chloride	NR	NR		R		R	NR		
Aluminum Acetate		R		R			R		NR	Aniline	NR	NR	R	73	R	R	140	R	NR
Aluminum Ammonium	R	R	150	R		R	R			Aniline Chlorohydrate	NR	NR		75		185			
Aluminum Bromide		R		R						Aniline Hydrochloride	NR	NR		75		185			

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	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
Annomia		N								Brine, Basic				R					
Anthraquinone	R					R				Brine, Chlorinated Acid				R					
Anthraquinone Sulfonic Acid	R					R				Bromic Acid	R	R		230			140		
Antimony Trichloride	R	R	R			R				Bromine, Liquid	NR	NR		150	R	NR			
Aqua Regia	NR	73		73		R	140			Bromine, Vapor, 25%	R			150	R	NR			NR
Aromatic Hydrocarbons	NR	NR								Bromine, Water	R	R		230	R	NR			
Arsenic Acid	R	R		R	R	R	R	R		Bromobenzene	NR	NR		150	R	NR			NR
Arsenic Trioxide, Powder	73									Bromotoluene	NR	NR	NR						
Aryl Sulfonic Acid	R					R				Butadiene	R			230	R	NR			
Asphalt	NR	NR		250						Butane	R			230	R	NR			R
Barium Carbonate	R	R		R			R			Butanol	R	NR	R	R	R	NR	R		NR
Barium Chloride	R	R		R		R	R			Butyl Acetate	NR	NR		73	NR	140			
Barium Hydroxide	R	R		R		R	R			Butyl Acrylate				200					
Barium Nitrate	73	R		R		R	R			Butyl Alcohol	R	NR	R	R	R	NR			NR
Barium Sulfate	R	R		R		R	R			Butyl Bromide		NR		200					
Barium Sulfide	R	R		R		R	R			Butyl Carbitol		NR			NR	R			NR
Beer	R	R	R			R	R	R		Butyl Cellosolve	73	NR			NR	140			NR
Beet Sugar Liquors	R	R	R	200		R	R			Butyl Chloride		NR		125					
Bexyl Alcohol		N								Butyl Ether		NR		R					
Bexyl Chloride		N								Butyl Mercaptan				R					
Benzaldehyde	NR	NR	73	73		NR	R	NR		Butyl Phenol	73	73		230					
Benzalkonium Chloride	73	NR								Butyl Phthalate	NR	NR	R			73			
Benzene	NR	NR	NR	170	R	NR	NR	NR		Butyl Stearate	73	NR		100	R	NR			
Benzene Sulfonic Acid	NR	NR	R	73		R	NR	NR		Butylamine		NR		R					
Benzene, Benzol	NR	NR	NR	170	R	NR	NR	NR		Butylene	73	73		R	R	NR	NR		
Benzoic Acid	R	73	73	125	R	R	NR	R	NR	Butylphenol				70					
Benzoyl Chloride				225						Butynediol	73								
Benzoyl Peroxide				170						Butyraldehyde		NR		R	NR	NR			NR
Benzyl Alcohol	NR	NR	150	170		R	NR	NR		Butyric Acid, < 1%	73	R	R	230	73	140			
Benzyl Chloride		NR		250		R	NR	NR		Butyric Acid, > 1%		NR							
Benzyl Ether		NR		R						Cadmium Acetate		R							
Benzylamine		NR		100						Cadmium Chloride		R							
Bismuth Carbonate	R	R								Cadmium Cyanide	R	R							
Black Liquor	R	R		75		R	NR			Cadmium Sulfate		R							
Bleach, 12% Active CL2	R	R	120	R		R	140			Calcium Bromide		R		R					
Bleach, 5.5% Active CL2	R	R	120	R		R	140			Calcium Acetate		R		150					
Bleaching Agents				175						Calcium Bisulfide	R	R		225					
Borax	R	R	R	R	R	R	R	R	NR	Calcium Bisulfite	R	R	R	R		R	NR		
Boric Acid	R	R	R	R	R	R	R	R	R	Calcium Bisulfite Bleach Liquor	73								
Boron Trifluoride				R						Calcium Carbonate	R	R	R	R		R	R		R
Breeder Pellets, Fish Deriv.	R	R								Calcium Chlorate	R	R		R		R			
Brine, Acid	73	R	R	R		R	R			Calcium Chloride	R	R	R	R	R	R	R	R	R

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	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
Calcium Hydroxide	R	R	R	R		R	R		R	Chlorobenzyl Chloride	NR	NR		125		R			
Calcium Hypochlorite	R	R	150	200	R	R	R	R	NR	Chloroform	NR	NR	NR	230	R	NR	NR	NR	NR
Calcium Nitrate	R	R	R	R	R	R	R	R	R	Chlorohydrin				125					
Calcium Oxide	R	R		250			R			Chloropicrin	NR	NR		150					
Calcium Phosphate		R		R						Chlorosulfonic Acid	73	73	NR	NR		NR	NR		NR
Calcium Sulfate	R	R		R			R			Chlorotrimethylsilane				125					
Camphor Crystals	73									Chlorox Bleach Solution	73	R							
Cane Sugar Liquors	R	R	73	R		R	R			Chrome Alum	R	R		200	R	R	R	R	
Caprolactam		NR								Chromic Acid, 10%	R	R	150	150	R	R	NR		NR
Caprolactone		NR								Chromic Acid, 20%	R	R	150	150	R	R	NR		NR
Caprylic Acid		NR		NR						Chromic Acid, 40%	R	R	150	150	R	R	NR		NR
Carbitol		NR				NR	140			Chromic Acid, 50%	NR		R	150	R	R	NR		NR
Carbon Bisulfide	NR	NR	NR	73	R	R	NR		NR	Chromium Nitrate		R							
Carbon Dioxide, Dry	R	R	150	R		73	R			Chromium Potassium Sulfate			140						
Carbon Dioxide, Wet	R	R	150	R	R	73	R			Chromyle Chloride				140					
Carbon Disulfide	NR	NR	NR	73	R	R	NR		NR	Cider				R					
Carbon Monoxide	R	R		R	R	R	R	R	R	Citric Acid	R	R	R	230		R	R		R
Carbon Tetrachloride	NR	NR	NR	R		R	NR		NR	Citrus Oils		NR							
Carbonic Acid	R	R		R		R	R		NR	Cloracetic Acid	73	NR		NR		NR	NR		
Casein				250						Glycerine		R							
Castor Oil	R	NR		R		R	NR		R	Coal Gas				R					
Caustic Potash	R	R		R	R	NR		R		Coconut Oil	R	NR	73	250		R	NR		
Caustic Soda	R	R	R		R	NR		R		Coke Oven Gas	NR	R	73	230		R	NR		
Cellosolve	73	NR		R		NR	NR		NR	Copper Acetate		R	73	R					
Cellosolve Acetate	73	NR				NR	140			Copper Carbonate	R	R		R		R	R		
Chloracetic Acid	R	NR		NR		NR	73		NR	Copper Chloride	R	R		R		R	R		
Chloral Hydrate	R	R		75		NR				Copper Cyanide	R	R		R		R	R		
Chloramine	73									Copper Fluoride	R	R		R	R	R	R		
Chloric Acid	R	R								Copper Nitrate	R	R		R	R	R	R		
Chlorinated Phenol				150						Copper Salts	R	R							
Chlorinated Solvents	NR	NR				R	NR		NR	Copper Slufate	R	R	R	R	R	R	R		
Chlorinated Water Hypochlorite		R								Corn Oil		NR	73	R		R			R
Chlorine Dioxide		R		150		R	NR		NR	Corn Syrup	R	R	150	250		R			
Chlorine Gas, Dry	NR	NR		230	R	R	NR	NR	NR	Cottenseed Oil	R	NR	150	R		R	NR		
Chlorine Gas, Wet	NR	NR		230	R	R	NR	NR	NR	Creosote		NR				R	NR		NR
Chlorine, Liquid	NR	NR		230		R	NR			Cresol	NR	NR	73	150			NR		
Chlorine, Trace in air		R								Cresylic Acid, 50%	R			150		R	NR		NR
Chlorine, Water	R	R		230	R	R	73	NR		Crotonaldehyde	NR	NR		125					
Chloroacetic Acid	73	NR		NR		NR	NR			Crude Oil	73	NR		R		R	NR		NR
Chloroacetyl Chloride				125						Crude Oil, Sour	R	NR							
Chlorobenzene	NR	NR	73	150		R	NR			Cryolite				250					
Chlorobenzenesulfonic Acid				200						Cumene		NR		100					

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Cupric Fluoride	R	R		R			R			Dimethyl Hydrazine	NR	NR		NR					
Cupric Sulfate	R	R		R		R	R			Dimethyl Phthalate		NR		75		R	NR		NR
Cupric Sulfate, Saturated		R	73							Dimethyl Sulfate				75					
Cuprous Chloride	R	R		250	R	R				Dimethyl Sulfoxide		NR		NR					
Cyclanones, Type I		R								Dimethylacetamide	NR	NR							
Cyclohexane	NR	NR	NR	R	R	R	NR	NR	R	Dimethylamine	R	NR	120	75		NR			
Cyclohexanol	NR	NR	120	150	R	R	NR	NR		Dimethylaniline				75					
Cyclohexanone	NR	NR	NR	73	R	NR	73	NR		Dimethylformamide	NR	NR		NR		NR	NR		
Cyclohexyl Acetate		NR		200						Diocetyl Phthalate	NR	NR	NR	75		73	73		
DDT (Xylene Base)	NR									Dioxane 1, 4	NR	NR	73	NR		NR	NR		NR
Debutylamine				70						Dipropylene Glycol Methyl Ether		NR		75					
Decalin	NR	NR								Disodium Phosphate	R	R		200			R		
Decane				250						Distilled Water	R	R							
Dechloroethylene				225						Divinylbenzene	NR	NR		125					
Demethyl Acetamide				NR						D-Limonene		NR							
Detergent Solution, Heavy Duty	R	R				R	R			EDTA, Tetrasodium		R							
Detergents	R	NR	150			R	R			Epichlorohydrin	NR	NR							
Dextrin	R	R		230			NR			Epsom Salt		R		175			R		
Dextrose	R	R		230		R				Esters	NR	NR							
Diacetone Alcohol	NR	NR	120	70	R	NR	R		NR	Ethanethiol				75					
Diazo Salts	R	R								Ethanol, > 5%		NR	R			R	R		R
Dibutoxy Ethyl Phthalate	NR	NR								Ethanol, ≤ 5%	R	R	R			R	R		R
Dibutyl Phthalate	NR	NR	120			NR	R		NR	Ethanolamine	NR	NR	NR	NR	R	NR	73		
Dibutyl Sebacate	73	NR		NR			73			Ethers	NR	NR							
Dibutylamine	NR	70	R	NR	NR	NR				Ethyl Acetate	NR	NR	120	NR	R	NR	73		R
Dichloroacetic Acid		NR		125						Ethyl Acetoacetate	NR	NR		73		NR	NR		NR
Dichlorobenzene	NR	NR				R	NR			Ethyl Acrylate	NR	NR		73		NR	73		
Dichlorodimethylsilane				125						Ethyl Alcohol	R	NR	180	R	R	NR	R		R
Dichloroethylene	NR	NR	NR	225	R	R	NR		NR	Ethyl Benzene		NR	NR	125		R	NR		NR
Diesel Fuels	NR	NR		R	R	R	NR	NR		Ethyl Chloride	NR	NR	73	R	R	R	R		NR
Diethanolamine				NR						Ethyl Chloroacetate	NR	NR		75					
Diethyl Cellosolve		NR		R			NR			Ethyl Chloroformate		NR		125					
Diethyl Ether	NR	NR	NR	73	R	NR	NR		NR	Ethyl Cyanoacetate				75					
Diethyl Malonate		NR		NR						Ethyl Ether	NR	NR	NR	73	R	NR	NR		NR
Diethylamine	NR	NR		73		73	NR		NR	Ethyl Formate				75		R	NR		NR
Diethylenetriamine				125						Ethylene Bromide	NR	NR		R			NR		
Diglycolic Acid	R	R		75						Ethylene Chloride	NR	NR	73	R	R	NR	NR		NR
Diisobutyl Ketone		NR		200						Ethylene Chlorohydrin	NR	NR	73	73		R	73		
Diisobutylene				R						Ethylene Diamine	NR	NR	120	NR	R	NR	R		R
Diisopropyl Ketone		NR		70						Ethylene Dichloride	NR	NR	73	R		NR	NR		NR
Dill Oil		NR								Ethylene Glycol	R	NR	120	R	R	R	R		R
Dimethyl Formamide	NR	NR	120	NR	R	NR	NR	R	NR	Ethylene Oxide	NR	NR	NR	NR	R	NR	NR		R

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	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA	
Fatty Acids	R	R	120	R	R	R	NR	R		Glue	R	R		250						
Ferric Acetate	73	R								Glutamic Acid				200						
Ferric Chloride	R	R	R	R	R	R	R	R		Glycerine	R	R	R	R	R	R	R			70
Ferric Hydroxide	R	R	R	250						Glycerine Glycerol	R	R	R	R	R	R	R			71
Ferric Nitrate	R	R	R	R		R	R			Glycol	R	R			R	R	R	R		
Ferric Sulfate	R	R	R	R		R	R			Glycol Ethers				N						
Ferric Sulfide	R			250						Glycolic Acid	R	R	73	73	R	R	73	R		
Ferrous Chloride	R	R		R						Glycols Ether	R	NR		R		R	R			
Ferrous Hydroxide	73	R	R	250						Grape Sugar	R	R				R				
Ferrous Nitrate	73	R	140	R						Green Liquor	R	R								
Ferrous Sulfate	R	R	R	R		R				Halocarbon Oils				NR						
Fish Solubles	R	R								Heptane	R		NR	R		R	NR			R
Fluoboric Acid	R	73	73	R	R	R	R	160		Hercolyn	73									
Fluorine Gas	73	NR		73		NR				Hexachloro-1, 3-Butadiene					125					
Fluosilicic Acid, 25%	R	73	R	R	R	R	R	R		Hexamethylenediamine					NR					
Formaldehyde, 35%	R	NR	R	150	R	R	140	R	R	Hexamethylphosphotriamide					NR					
Formaldehyde, 37%	R	NR	R	125	R	R	140	R	R	Hexane	NR	R		R	R	R	NR			R
Formaldehyde, 50%	R	NR				R	140	R		Hexyl Alcohol	R	NR	R	R	NR	NR				NR
Formic Acid	73	NR	73	250	R	R		R		Hydrazine	NR	NR		200		NR				NR
Formic Acid, Anhydrous	NR	NR	R							Hydrazine Dihydrochloride					75					
Freon F-11	R					R	NR	NR		Hydrazine Hydrate					125					
Freon F-113	R					NR	NR	R		Hydrazine, Anhydrous, 97%	NR	NR								
Freon F-114	R					R	NR	R		Hydriodic Acid, Aqueous				R						
Freon F-12	R		73			R	NR	R		Hydrobromic Acid, 20%	R	R	120	R	R	NR	140	R	NR	
Freon F-21	NR					NR	NR	NR		Hydrobromic Acid, 50%	R	R	120	R	R	NR	140	R	NR	
Freon F-22	NR		73			NR	R	NR		Hydrochloric Acid, 10%	R	R	R	R	R	R	NR	NR		
Fructose	R	R		R		R				Hydrochloric Acid, 37%	R	R	R	R	R	R	NR	NR		
Fruit Juices, Pulp	R	R		200		R	NR	R		Hydrochlorous Acid	R	R		R		R	140			
Fuel Oil		NR		R		R	NR	R		Hydrocyanic Acid	R	R		R		R	R			NR
Fumaric Acid				170						Hydrocyanic Acid, 10%	R	73	73			R	R			NR
Furan				NR			NR	NR		Hydrofluoric Acid, 30%	73	73	120	230		NR	73			NR
Furfural	NR	NR	NR	75		NR	NR	NR		Hydrofluoric Acid, 40%	73	NR	150	230		NR	73			NR
Gallic Acid	R	73		73		R	NR	NR		Hydrofluoric Acid, 48%	73	NR			R	NR	73			NR
Gas, Cook Oven	NR									Hydrofluoric Acid, 50%	73	NR	73	230		NR	73			NR
Gas, Natural	R	R		R						Hydrofluoric Acid, 70%	NR	NR			R	NR				NR
Gasohol		NR	NR				NR			Hydrofluoric Acid, Dilute	73	73	R	R		NR	73			NR
Gasoline, Leaded	NR	NR	NR	R		R	NR			Hydrofluosilicic Acid, 20%	R	73	R	R		R				
Gasoline, Sour	NR	NR	NR	R		R	NR			Hydrofluosilicic Acid, 50%				140						
Gasoline, Unleaded	NR	NR	NR	R	R	R	NR	NR		Hydrogen	R	73		R	R	R	R	R	R	R
Gelatin	R	R	R	250		R	R	R		Hydrogen Chloride					R					
Gin	R	R		200						Hydrogen Cyanide	R	R		R						
Glucose	R	R	R	R	R	R	R	R	R	Hydrogen Fluoride	NR		73	200		NR				

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	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
Hydrogen Gas			73							Lead Sulfate	R	R	150	250					
Hydrogen Peroxide, 30%	R	73		73	R	R	NR	R	NR	Lemon Oil			NR	NR	230				
Hydrogen Peroxide, 50%	R	73		73	R	R	NR		NR	Ligroine						R	NR		
Hydrogen Peroxide, 90%	R	NR		73	R	R	NR	NR	NR	Lime Sulfur	R	R	73			R	R		
Hydrogen Phosphied	R			150			73			Limonene			NR						
Hydrogen Sulfide, Aqueous	R	R		225	R	NR	140	R		Linoleic Acid	R	R		230		NR	NR		NR
Hydrogen Sulfide, Dry	R	R	150	R	R	NR	R			Linoleic Oil	R	R				73			
Hydroquinone	R	R		230		NR	NR		NR	Linseed Oil	R	NR	150	R	R	R	NR	NR	R
Hydroxylamine Sulfate	R	R					73			Linseed Oil, Blue	73	73							
Hypochlorine Acid	R									Liquors	R								
Hypochlorite	73									Lithium Bromide	R	R		225		R			
Hypochlorous Acid	R	R	73	70						Lithium Chloride	R	R		250					
Iodine	NR	NR		150		R	NR		NR	Lithium Sulfate	R	R							
Iodine Solution, 10%	NR	73	150	150		R	140			Lubricating Oil, ASTM #1	R		73	R		R	NR		
Iodine, Gas				150						Lubricating Oil, ASTM #2	R		73	R		R	NR		
Iodoform				200						Lubricating Oil, ASTM #3	R		73	R		R	NR		
Iron Salts		R								Lux Liquid	NR								
Isoamyl Ether		NR		250						Lye Solutions	R	R				NR	R		NR
Isobutyl Alcohol		NR		250		R	R		NR	Machine Oil	R	R					NR		
Isooctane	73	73	73	250	R	R	R	NR	R	Maganese Sulfate				250					
Isophorone				175						Magnesium Carbonate	R	R		R			R		
Isopropanol	R	NR	150	140		R	R		R	Magnesium Chloride	R	R	R	R	R	R	R		R
Isopropyl Alcohol	R	NR	150	140	R	R	R			Magnesium Citrate	R	R		250			R		
Isopropyl Benzene				100						Magnesium Fluoride			R						
Isopropyl Chloride				100		R	NR		NR	Magnesium Hydroxide	R	R	R	R		R	R		
Isopropyl Ether	NR	NR		125	R	NR	NR	NR	NR	Magnesium Nitrate	R	R	R	R			R		
Jet Fuel JP-4	R	73		200		R	NR		R	Magnesium Oxide			R						
Jet Fuel JP-5	R	73		200		R	NR		R	Magnesium Salts, Inorganic			R						
Kerosene	R	NR	73	R		R	NR		R	Magnesium Sulfate	R	R	R	R	R	R	R		R
Ketones	NR	NR								Maleic Acid	R		R	230	R	R	NR		NR
Kraft Liquor	R	R								Maleic Anhydride				75					
Lactic Acid, 25%	R	R	150	125		R	73			Malic Acid	R	R	150	250					
Lactic Acid, 80%	73	73	150	125		R	73			Manganese Chloride	R								
Lanolin				250						Manganese Salts	73	73							
Lard Oil	R	R	73	R		R	NR		R	Manganese Sulfate	R	R	150						
Lauric Acid	R	R		230						M-Bromotoluene			NR	150					
Lauryl Chloride	R	NR		230						Mercural Ointment, Blue, 5%	73								
Lauryl Mercaptan				200						Mercuric Acid			R						
Lauryl Sulfate				250						Mercuric Chloride	R	R	R	230		R	R		R
Lead Acetate	R	R	R	R	R	NR	R	R		Mercuric Cyanide	R	R		230			R		
Lead Chloride	R	R	73	250			R			Mercuric Sulfate	R	R		230		R	R		
Lead Nitrate	R	R	R	250		R	R			Mercurous Nitrate	R	R		230					

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	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
Mercury	R	R	150	R	R	R	R	R	R	Muriatic Acid	R	73							
Methacrylic Acid		NR	125							Naphtha	R	73	R		R	NR			R
Methalamine	NR		NR							Naphthalene	NR	NR	150	R	R	NR	NR	NR	NR
Methane	R		230		R	NR		R		Natural Gas	R	73			R	NR			R
Methanesulfonic Acid			200							N-Hexane		73							
Methanol, > 10%		NR	R				R	NR		Nickel Acetate	R	R	250		NR	R			
Methanol, ≤ 10%		R	R				R	NR		Nickel Chloride	R	R	R	R		R	R		
Methoxyethyl Oleate										Nickel Nitrate	R	R	R		R	R			
Methyl Acetate		NR	100		NR	NR		NR		Nickel Salt	R	R			R	R	R	R	
Methyl Alcohol	R	NR	R	R	R	NR	R	R	R	Nickel Sulfate	R	R	R	R	R	R	R	R	R
Methyl Amine	NR	NR	NR	NR	R	70				Nicotine	R	R	73						
Methyl Bromide	NR	NR	R	R	R	NR	NR	NR		Nicotinic Acid	R	R	230						
Methyl Cellosolve	NR	NR	R		NR	NR		NR		Nitric Acid, 10%		R	120						NR
Methyl Chloride	NR	NR	R	R	R	NR	NR	NR		Nitric Acid, 100%	NR	NR	NR						NR
Methyl Chloroacetate		NR	75							Nitric Acid, 25-35%		73							NR
Methyl Chloroform	NR	NR	150	R		NR		NR		Nitric Acid, 40%	73	73	100	125					NR
Methyl Chloromethyl Ether		NR	75							Nitric Acid, 50%	73	73	NR	125					NR
Methyl Ethyl Ketone	NR	NR	NR	NR	R	NR	R	NR	NR	Nitric Acid, 70%	73	73	NR		R	R	NR	NR	NR
Methyl Formate		NR								Nitric Acid, Fuming	NR	NR	NR						NR
Methyl Isobutyl Ketone	NR	NR	NR	NR		NR	NR		NR	Nitrobenzene	NR	NR	73	R	NR	R	R	R	NR
Methyl Methacrylate		NR	125		NR	NR		NR		Nitroethane			70		NR	NR			NR
Methyl Salicylate			150							Nitrogen			R						
Methyl Sulfate	73	73	R							Nitrogen Dioxide			170						
Methyl Sulfuric Acid	R	R	73							Nitroglycerine	NR	NR	125						
Methylamine	NR	NR	NR	NR	R	70				Nitroglycol	NR								
Methylene Bromide	NR	NR	175		NR	NR				Nitromethane			120		NR	NR			NR
Methylene Chloride	NR	NR	NR	R	NR	NR	NR	NR		Nitrotoluene			175						
Methylene Chlorobromide	NR	NR								Nitrous Acid, 10%	73	73	230						
Methylene Iodine	NR	NR	NR							Nitrous Oxide	73	73	NR		73				
Methylisobutyl Carbinol		NR								Octane			R						
Methylsulfuric Acid			125							Octanol, 1		NR							
Methyltrichlorosilane			150							Oil and Fats	R								
Milk	R		170	230	R	R	R	R	R	Oils, Edible		NR							
Mineral Oil	R		120	R	R	R	NR	NR	R	Oils, Sour Crude	R	NR							
Mitrobenzene		N								Oils, Vegetable	R	NR			R	NR			
Mixed Acids	R									Oleic Acid	R	R	NR	250		R	NR		R
Molasses	R	R	73	150	R	R	R	R		Oleum	NR	NR	R	NR	R	NR	NR	NR	NR
Monochloroacetic Acid, 50%			73							Olive Oil	R	NR	250						
Monochlorobenzene Tech. Pure			73							Oxalic Acid, 20%	R	R	125	R	R	R	R	R	NR
Monoethanolamine	NR	NR	NR	NR	R	R	73			Oxalic Acid, 50%	R	73	150	73	R	R	R	R	NR
Morpholine			75							Oxalic Acid, Saturated	R		73		R	R			
Motor Oil	R	NR	73		R	R	NR	NR		Oxygen	R	R	R	R	R	R	NR		NR

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	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
Ozone	R	R		225		R	R		NR	Picric Acid	NR	NR		73		R	140		
Ozonized Water		R								Pine Oil		NR				R	NR		NR
Palm Oil		NR		200						Plating Solutions, Brass	R	R	R	200		R	R		
Palmitic Acid, 10%	R	73	R	230		R	73			Plating Solutions, Cadmium	R	R	R	200		R	R		
Palmitic Acid, 70%	73			230		R	73			Plating Solutions, Chrome	73	R	R	200		R	R		
Paraffin	R			250		R				Plating Solutions, Copper	R	R	R	200		R	R		
Paraffin Oil				250						Plating Solutions, Gold	R	R	R			R	R		
Patassium Bicarbonate		R								Plating Solutions, Iron				200					
P-Dibromobenzene		NR		200						Plating Solutions, Lead	R	R	R	200		R	R		
Peanut Oil	R	NR		250		R	NR		R	Plating Solutions, Nickle	R	R	R	200		R	R		
Peracetic Acid, 40%	73	NR								Plating Solutions, Rhodium	R	R		200		R			
Perchloric Acid, 10%	R	73	73	150	R	R	NR	NR		Plating Solutions, Silver	R	R	R	200		R	R		
Perchloric Acid, 70%	73		73	73		R				Plating Solutions, Speculum				200					
Perchloroethylene		NR		R						Plating Solutions, Tin	R	R	R	200		R	R		
Perchloromethyl Mercaptan				125						Plating Solutions, Zinc	R	R	R	200		R	R		
Perphosphate	73	R	170							Polyethylene Glycol		NR		200					
Petrolatum	R	NR		R						Polyvinyl Acetate				R					
Petroleum		NR		250						Polyvinyl Alcohol				R					
Petroleum Liquifier	R									Potash	R	R	R	R	R	140	R		
Petroluem Oils, Refined	R	NR				R	NR		R	Potash, Aqueous	R	R			R	R		R	
Petroluem Oils, Sour	R	NR				NR				Potassim Ferrocyanide		R							
Phenol	NR	73	150	R	R	NR	NR			Potassium				NR					
Phenyl Ether		NR		125						Potassium Acetate		R		R					
Phenylhydrazine	NR	NR		73		R	NR		NR	Potassium Alum	R	R		R			R		
Phenylhydrazine Hydrochloride	NR	NR		125						Potassium Aluminum Chloride				R					
Phosgene				175						Potassium Aluminum Sulfate	R	R		R			R		
Phosgene, Gas	73					NR	140			Potassium Amyl Xanthate	73								
Phosgene, Liquid	NR	NR			R	NR	73			Potassium Bicarbonate	R	R	170	200		R			
Phosphoric Acid, 10%	R	R	R	R	R	R	140	R	NR	Potassium Bichromate	R	R		230	R	R	R		180
Phosphoric Acid, 25%	R	R	R	R	R	R	140	R	NR	Potassium Bisulfate	R	R		230		R			
Phosphoric Acid, 50%	R	R	R	230	R	R	140	R	NR	Potassium Borate	R	R		R	R	R	R	R	
Phosphoric Acid, 70%	R	R	R	230	R	R	140	NR	NR	Potassium Bromate	R	R	R	R		R	R		
Phosphoric Acid, 85%	R	R		230		R	140		NR	Potassium Bromide	R	R	R	R	R	R	R	R	
Phosphoric Anhydride				73						Potassium Carbonate	R	R	R	R	R	140	R		
Phosphorus Oxychloride				NR						Potassium Chlorate	R	R		200	R	R	140	R	
Phosphorus Pentachloride				200						Potassium Chloride	R	R	R	R	R	R	R	R	
Phosphorus Pentoxide	73	R	73	200		R	R			Potassium Chromate	R	R		R	R	R	73	R	
Phosphorus Trichloride	NR	NR		230	R	R	R	R	NR	Potassium Cyanate	R	R							
Phosphorus, Red	R			75						Potassium Cyanide	R	R		R	R	R	R	R	
Phosphorus, Yellow	73									Potassium Dichromate	R	R		230	R	R	R		180
Photographic Sloutions	R	R	150		R	R				Potassium Ethyl Xanthate	73						R		
Phthalic Acid				200						Potassium Ferricyanide	R	R		R		140			

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	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
Potassium Ferrocyanide	R	R		R		R	R			Sea Water	R	R	73	R	R	185	R		180
Potassium Fluoride	R	R		R		R				Sec-Amyl Alcohol		NR		125					
Potassium Hydroxide, 25%	R	R	150	180		NR	R			Selenic Acid	R			150					
Potassium Hydroxide, 50%	R	R		NR		NR	R			Silicic Acid	R	R			R	R	140	R	
Potassium Hypochlorite	R	R		200						Silicon Tetrachloride				125					
Potassium Iodide		R	73	250	R	180	140	R	100	Silicone Oil	73	R	150	250	R	R	140	R	R
Potassium Nitrate	R	R		R	R	R	R	R	R	Silver Chloride		R							
Potassium Perborate	R	R	170	R						Silver Cyanide	R	R		R			R		
Potassium Perchlorate		R		200						Silver Nitrate	R	R	R	R	R	R	R	R	NR
Potassium Perchlorate, Sat'd	R	R					140			Silver Sulfate	R	R		230		R	R		
Potassium Permanganate, 10%	R	R	150	250			R			Soap Solutions	R	R	73		R	R	R	R	
Potassium Permanganate, 25%		R	150	R			R			Sodium				NR					
Potassium Persulfate	R	73		125						Sodium Acetate	R	R	R	R		NR	R		
Potassium Persulfate, Sat'd	R						R			Sodium Alum	R	R		R			R		
Potassium Phosphate		R								Sodium Aluminate		R							
Potassium Sulfate	R	R	R	R	R	R	R	R	R	Sodium Amalgam				NR					
Potassium Sulfide		R		R						Sodium Arsenate									
Potassium Sulfite		R								Sodium Benzoate	R	R	170	R		R	R		
Potassium Tripolyphosphate		R								Sodium Bicarbonate	R	185	180	R	R	R	R	R	R
Propane	R			R	R	R	NR	NR	R	Sodium Bichromate	R	140	140	200	R	200	140		
Propanol, > 0.5%		NR				R	R		R	Sodium Bisulfate	R	R	R	R		R	R		
Propanol, ≤ 0.5%		R				R	R		R	Sodium Bisulfite	R	R	R	R	R	R	R	R	
Propionic Acid, > 2%		NR								Sodium Borate	R	R	73			R	R		
Propionic Acid, ≤ 2%		R								Sodium Bromate		R		200					
Propyl Acetate		NR		100		NR	NR		NR	Sodium Bromide	R	R	R	R			R		
Propyl Alcohol	R	NR	R	150	R	R	R		R	Sodium Carbonate	R	R	R	R		R	R		R
Propylamine		NR		NR						Sodium Chlorate	73	R	R	250		R	140		
Propylene Dichloride	NR	NR		200						Sodium Chloride	R	R	R	R		R	R		R
Propylene Glycol, > 25%		NR		150						Sodium Chlorite	NR	R		250	R	R	R	R	
Propylene Glycol, ≤ 25%		R		150						Sodium Chromate		R		200					
Propylene Oxide	NR	NR		NR		NR	NR		NR	Sodium Cyanide	73	R	R	R		R	R		
Pyridine	NR	NR	73	NR		NR	NR			Sodium Dichromate	R	140	140	200	R	200	140		
Pyrogallol				120					70	Sodium Dithionite				100					
Quaternary Ammonium Salts		R								Sodium Ferricyanide	R	R	140	R					
Rayon Coagulating Bath	R	NR								Sodium Ferrocyanide	R	R		R					
Refinery Crudes	R	NR								Sodium Fluoride	R	R	185	R					
Rhodan Salts	R	R								Sodium Fluosilicate		R		200					
Rochelle Salts	R									Sodium Formate		R							
Salicylaldehyde				125						Sodium Hydrogen Phosphate		R		250					
Salicylaldehyde	NR			73						Sodium Hydroxide, 10%	R	R	R	230	R	73	R	R	R
Salicylic Acid	R	73		200	R	185	210		NR	Sodium Hydroxide, 15%	R	R	R	230	R	73	R	R	R
										Sodium Hydroxide, 25%	R	R	R	230	R	73	R	R	R

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Sodium Hydroxide, 30%	R	R	R	230	R	73	R	R	R	Sulfite Liquor	R	R				R			
Sodium Hydroxide, 50%	R	R	R	150	R	73	140	R	R	Sulfur	R		NR	230	R	NR	R	R	
Sodium Hydroxide, 70%	R	R	R	NR	R	73		R	R	Sulfur Chloride	R	73		73		R	NR		NR
Sodium Hypobromite		R								Sulfur Dichloride				75					
Sodium Hypochlorite*	73	185	120	200	R	140	70	NR		Sulfur Dioxide, Dry	R		73	230	R	R	R	R	NR
Sodium Hypochlorite, 20%*	73	R	120	R	R	R	140	R	NR	Sulfur Dioxide, Wet	73		73	150	R	R	R	R	NR
Sodium Iodide		R		R						Sulfur Trioxide	R	R		NR		R	NR		NR
Sodium Metaphosphate	R	R	73	R		R	R			Sulfur Trioxide, Gas	R			NR		R			
Sodium Nitrate	R	R	R	R	R	73	R	R		Sulfuric Acid Pickling	R								NR
Sodium Nitrite	R	R		R			R			Sulfuric Acid, 10%	R	R		230	R	R	R	R	NR
Sodium Palmitate				250						Sulfuric Acid, 100%	NR	NR				R	NR		NR
Sodium Palmitate Sol., 5%	R	R	R	R	R					Sulfuric Acid, 20%	R	R			R	R	R	R	NR
Sodium Perborate	R	R	73			R	R			Sulfuric Acid, 3%	R	R			R	R	R	R	NR
Sodium Perchlorate	R	R		250						Sulfuric Acid, 30%	R	R	R	230		R	140		NR
Sodium Peroxide	R			200		R	R			Sulfuric Acid, 33%	R	R			R	R	R	R	NR
Sodium Phosphate, Acid	73	73	180	R	R	185	170		140	Sulfuric Acid, 50%	R	R	150	230		R	140		NR
Sodium Phosphate, Alkaline	R	R	R	R		R	R			Sulfuric Acid, 60%	R	R		230		R	140		NR
Sodium Phosphate, Neutral	R	R	R	R		R	R			Sulfuric Acid, 70%	R	R		150	R	R	140	R	NR
Sodium Silicate	R	R	R	R		R	R			Sulfuric Acid, 80%	R	R		150		R	NR		NR
Sodium Sulfate	R	R	150		R	R	R	R		Sulfuric Acid, 85%	R	170			R	R	NR	R	NR
Sodium Sulfide	R	R	150	R		R	R			Sulfuric Acid, 90%	73	73		150		R	NR		NR
Sodium Sulfite	R	R	R	R		R	R			Sulfuric Acid, 93.5%	NR	73							NR
Sodium Thiocyanate				250						Sulfuric Acid, 94%	NR	73		150		R	NR		NR
Sodium Thiosulfate	R	R	150	R		R	R			Sulfuric Acid, 95%	NR	73		150	R	R	NR	NR	NR
Sodium Tripolyphosphate		R								Sulfuric Acid, 96%	NR	73		73		R	NR		NR
Sour Crude Oil	R	NR			NR					Sulfuric Acid, 98%	NR	73		73		R	NR		NR
Soybean Oil	73	NR		250		R	NR		R	Sulfuric Acid, Fuming				NR					NR
Stannic Chloride	R	R		R		R	R			Sulfuric/Nitric (50/50)	NR								
Stannous Chloride	R	R		R		R	R			Sulfurous Acid	R	R		230		R	R		NR
Stannous Sulfate		R								Sulfuryl Chloride				NR					
Starch	R	R		200		R	R			Sulfuryl Fluoride				75					
Stearic Acid	R		73	R		R	NR		R	Tall Oil	R	R		230					
Stilbene		NR		175						Tallow				R					
Stoddard's Solvent	NR	NR		R		R	NR		R	Tannic Acid	R	R		230	R	R	140	R	R
Strontium Chloride		R								Tanning Liquors	R	R				R			
Styrene		NR		180						Tar	NR	NR		250		R	NR		
Succinic Acid	R		150	230						Tartaric Acid	R			230		R	NR		R
Sugar		R				R				Terpenes		NR							
Sugar Syrup				R			R			Tetra Sodium Pyrophosphate	R								
Sulfamic Acid	NR	R	R							Tetraethyl Lead	73			R		R	NR		NR
Sulfate Liquor	R	R	73							Tetrahydrodurane	NR	NR		NR			NR		
Sulfated Detergents	R	R								Tetrahydrofuran	NR	NR		NR		NR	NR		NR

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 *For factory-customized, vented ball considerations, see the Valves Problems and Solutions section on page 75.



CHEMICAL RESISTANCE TABLE

	PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA		PVC	CPVC	PP	PVDF	TEFLON®	VITON®	EPDM	SANTOPRENE®	BUNA
Tetralin	NR	NR				R	NR	NR		Vinyl Acetate	NR	NR	NR	230				73	
Tetramethylammonium										Vinyl Chloride				200					
Tetramethylurea				NR						Vinylidene Chloride				200					
Tetrasodiumpyrophosphate	R	R								Water	R	R		R		R	R		
Texanol		NR								Water, Acid Mine	R	R		230		R			
Thioglycol				75						Water, Deionized	R	R	R						
Thioglycolic Acid				175						Water, Demineralized	R	R		R	R	R	R	R	
Thionyl Chloride	NR	NR		NR						Water, Distilled	R	R	R	R		R	R		
Thiophosphoryl Chloride				NR						Water, Potable	R	R	R			R	R		
Thread Cutting Oils	73			200		NR				Water, Salt	R	R	R	R	R	R	R	R	
Tirpineol	73					NR				Water, Sea	R	R	73	R	R	185	R		180
Titanium Tetrachloride	73			150		R	NR			Water, Sewage	R	R	R	250		R			
Toluene	NR	NR	150	200	R	NR		NR		Water, Swimming Pool			R						
Toluene, Toluol	NR	NR	150	200	175	NR	NR	NR		WD-40			NR						
Toluene-Kerosene, (25/75)	NR	NR								Whiskey	R	R	150	200		R	R		R
Toluenesulfonyl Chloride				125						White Liquor	R	R		230		R			
Tomato Juice	R	R	R	150		R				Wine	R	R	150	200		R	140		
Toxaphene-Xylene, (90/10)	NR	NR								Xylene	NR	NR	NR	150	R	R	NR	NR	NR
Transformer Oil	R	R	120			R	NR			Xylol	NR	NR	NR	150	R	NR	NR	NR	
Transformer Oil DTE/30	R	R					NR			Zinc Acetate	R	R		250					
Tributyl Phosphate	NR	NR		73		NR	73			Zinc Bromide	R	R		250					
Trichloroacetic Acid	R		150	73		NR	73			Zinc Carbonate			R						
Trichloroethane	NR	NR								Zinc Chloride	R	R	R	R	R	R	R	R	
Trichloroethylene	NR	NR	NR	R	R	R	NR	NR		Zinc Nitrate	R	R		R		R	R		
Tricresyl Phosphate				NR						Zinc Phosphate			R						
Triethanolamine	73			73		NR	73		NR	Zinc Sulfate	R	R	R	R	R	R	R	R	
Triethyl Phosphate				NR															
Triethylamine	R			73		R													
Trifluoroacetic Acid				125															
Trilones	NR																		
Trimethylamine	73			150															
Trimethylpropane	73																		
Trisodium Phosphate	R	R	185	R		R													
Turpentine	R	NR	NR	R		R	NR		R										
Urea	R	R	R	230	R	R	R	R											
Urine	R	R	R		R	R	R	R											
Varnish				250		R	NR		NR										
Varsol				250															
Vaseline	NR	NR	150		R		NR		140										
Vegetable Oil	73	NR	73	R															
Vinegar	R	R	140	225	R	NR	R	R	NR										
Vinegar, White		R		230		R	R												

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