

The Chemical Guides in this section are offered as a general indication of the compatibility of the various materials used in ALFAGOMMA® hose with the chemicals and fluids listed. The basis for the ratings in this guide include actual service experience, the advice of various polymer suppliers, and the considered opinion of our rubber chemists. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle. Some of the variables that come into play in the resistance of a compound to chemical attack are:

1. Temperature of the Material Transmitted:

Higher temperatures increase the effect of chemicals on rubber compounds. The increase varies with the polymer and the chemical. A compound quite suitable at room temperature might fail very quickly at higher temperatures.

2. Service Conditions:

A rubber compound usually swells when exposed to a chemical. With a given percent of swell, the hose tube may function satisfactorily if the hose is in a static condition, but fail quickly if the hose is subject to flexing.

3. The Grade or Blend of the Rubber Compound:

Basic rubber polymers are sometimes mixed or blended together to enhance a particular property for a specific service. The reaction to a particular chemical blend of polymers may, therefore, be somewhat different from the reaction to the single ones. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle.

KEY TO GENERAL CHEMICAL RESISTANCE CHART

Note: All data based on 20°C (68°F) unless otherwise noted.

Blank = No Data F = Fair X = Unsatisfactory
 E = Excellent C = Conditional
 G = Good I = Insufficient Data

GENERAL CHEMICAL RESISTANCE OF ALFAGOMMA® HOSE COMPOUNDS

Common Name	ASTM Designation D1418-93	Composition	General Properties
Natural	NR	Isoprene Rubber (Natural)	Excellent physical properties, including abrasion resistance. Not oil resistant.
SBR	SBR	Styrene-Butadiene Rubber	Good physical properties, including abrasion resistance. Not oil resistant.
EPM or EPDM	EPDM	Ethylene-propylene-diene-terpolymer	Good general purpose polymer. Excellent heat, ozone and weather resistance. Not oil resistant.
Neoprene	CR	Chloroprene	Excellent weathering resistance. Flame retarding. Good oil resistance. Good physical properties.
BUNA-N or Nitrile	NBR	Nitrile-Butadiene	Excellent oil resistance. Good physical properties.
Hypalon®	CSM	Chloro-sulfonated polyethylene	Excellent ozone, weathering and acid resistance. Good abrasion and heat resistance. Can be compounded for good oil resistance.
Cross Linked Polyethylene	XLPE	Cross Linked Polyethylene	Excellent resistance to most solvents, oils and chemicals. Do not confuse with chemical properties of standard polyethylene.
Butyl	IIR	Isobutene-isoprene	Very good weathering resistance, low permeability to air. Good physical properties. Poor resistance to petroleum-based fluids.
UHMWPE	UHMWPE	Ultra-High Molecular Weight Polyethylene	Excellent resistance to a majority of existing chemicals. Meets FDA requirements for foods and beverages.

Chemical Resistance Chart

Key to General Chemical Resistance Chart [all data based on 20°C (68°F) unless noted]:

E – Excellent; G – Good; F – Fair; C – Conditional; I – Insufficient Data; X – Not Recommended; Blank – No Data

COMPOUND										COMPOUND									
Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE
ACETALDEHYDE	E	F	C	G	X		X	E	G	AMYLAMINE	E		F			G	G		E
ACETIC ACID, GLACIAL	G	X	X	G	C	X	X	E	E	ANETHOLE	X		X			X	X	G	F
ACETIC ACID, 10%	E	F	F	E	X	F	F	E	G	ANILINE	E	X	X	C	X	X	X	E	E
ACETIC ACID, 50%	E	X	X	E	X	G	X	E	E	ANILINE DYES	G	G	G	G	X	G	G	E	G
ACETIC ANHYDRIDE	E	G	G	E	X	F	X	E	G	ANILINE OIL	G	X	X	G	X	X	X		G
ACETIC OXIDE	E		G			F	G	E	G	ANIMAL FATS	G	C	X	C	E	X	X	E	E
ACETONE	E	X	F	E	X	C	C	E	E	ANTIMONY PENTACHLORIDE	X		X			X	X	E	E
ACETONE CYANOHYDRIN	E		F			F	F	E	G	AQUA REGIA	X	X	C	C	X	X	X	G	G
ACETONITRILE										ARGON	G	X	X	E	C	X	X		
ACETOPHENONE	E	X	X	E	X	X	X			ARSENIC ACID	E	E	E	E	E	E	E	E	E
ACETYL ACETONE	G	X	X	E	X	X	X	E	G	ASPHALT	X	X	X	X	X	X	X	X	X
ACETYL CHLORIDE	X	X	X	X	X	X	X	G	G	ASTM FUEL A	X	E	G	X	E	X	X		
ACETYL OXIDE	E		G			F	G	E	G	ASTM FUEL B	X	X	X	X	E	X	X		
ACETYLENE	E	G	E	E	E	E	E	F	E	ASTM FUEL C	X	X	X	X	G	X	X		
ACETYLENE DI-+TERA CHLORIDE	X		X			X	X	G	G	ASTM OIL No. 1	X	E	G	X	E	X	X	E	E
ACROLEIN	E		G			G	F	E	G	ASTM OIL No. 2	X	G	X	X	E	X	X	E	E
ACRYLENITRILE	X	X	C	X	X	X	X	C	G	ASTM OIL No. 3	X	X	X	X	E	X	X	E	E
ACRYLIC ACID									G	ASTM OIL No. 4	X	X	X	X	G	X	X		
ADIPIC ACID	E	G	E	G	G		G			AUTOMATIC TRANSMISSION FLUID	X	G	C	X	E	X	X		
AIR, +300°F		X	X	X	X	X	X			BANANA OIL	C			C	X		X		
ALK-TRI	X		X		X	X		E	I	BARIUM CHLORIDE	E	E	E	E	E	E	E	E	E
ALLYL ALCOHOL	E		E			E	E	E	E	BARIUM HYDROXIDE	E	E	E	E	E	E	E	E	E
ALLYL BROMIDE	X		X			X	X	G	G	BARIUM SULFIDE	E	E	E	E	E	E	E	E	E
ALLYL CHLORIDE	F	X	X	X		X	X	G	G	BEER	E	G	E	G	C	E	E		
ALUM	E	E	E	E	E	E	E	E	E	BEET SUGAR LIQUORS	E	G	E	E	E	E	E		
ALUMINIUM ACETATE	G	G		E	F	X	X	E	E	BENZAL CHLORIDE	G							E	E
ALUMINIUM CHLORIDE	E	E	E	E	E	E	E	E	E	BENZALDEHYDE	E	X	X	E	X	X	X	E	E
ALUMINIUM FLUORIDE	E	E	E	E	E	G	E	E		BENZENE	X	X	X	X	X	X	X	E	G
ALUMINIUM FORMATE	G		X			X	X	E	E	BENZENE CARBOXYLIC ACID									
ALUMINIUM HYDROXIDE		E	G		G	E			E	BENZINE	X	G	X	X	E	X	X	E	E
ALUMINIUM NITRATE	E	E	E	E	E	E	E	E		BENZOIC ACID	X	X	X	X	X	X	X	E	E
ALUMINIUM SULFATE	E	E	E	E	E	E	E	E	E	BENZOL				X	X				G
ALUMUS-NH3-CR-K	E	E	E	E	E	E	E			BENZOTRICHLORIDE								G	F
AMINES-MIXED	G	G	X	G	X	G	G			BENZYL ACETATE	G		X			X	X	E	E
AMINO BENZENE									G	BENZYL ALCOHOL	X	C	F	X	X	X	X	E	E
AMINODIMETHILBENZENE										BENZYL CHLORIDE	G	X	C	G	X	C	C	E	E
AMINOETHANO									E	BENZYL ETHER									
AMINOXYLENE										BIS (2-CLOROETHYL) ETHER									
AMMONIUM CARBONATE	E	E		E	X	E	E			BLACK SULFATE LIQUOR	E	G	G	E	G	G	G		E
AMMONIUM CHLORIDE	E	E	E	E	E	E	E	E	E	BLEACH	G	X	F	G	X	X	X	G	F
AMMONIUM HYDROXIDE	E	E	G	E	X	X	X	E	E	BORAX SOLUTION	E	E	E	E	C	G	G	E	
AMMONIUM NITRATE	E	E	E	E	E		E	E	E	BORIC ACID		E	E	E	E	E	E	E	
AMMONIUM PHOSPHATE, DIBASIC	E	E	E	E	E	E	E	E	E	BRAKE FLUID (HD-557)12 Days	G	G	G	E	C		E		
AMMONIUM SULPHATE	E	E	E	E	E	E	E	E	E	BRINE	E	E	E	E	F	E	E	E	E
AMMONIUM SULPHITE	E		E			E	E	E	E	BROMACIL				E					
AMMONIUM THIOSULFATE	E		E			E	E	E	E	BROMOBENZENE	X	X	X	X	X	X	X	C	G
AMYL ACETATE	E	X	X	X	X	X	X	E	E	BROMOCHLOROMETANE	G	X	X	G	X	X	X	G	F
AMYL ACETONE	G		X			X	X	E		BROMOETHANE									
AMYL ALCOHOL	E	G	E	E	X	E	E	E	E	BROMOTOLUENE	X		X			X	X	F	X
AMYL BROMIDE										BUGDIOXANE								E	
AMYL CHLORIDE	X	X	X	X		X	X	G	E	BUNKER OIL	X	X	X	X	E	X	E	E	G
AMYL ETHER										BUTADIENE	X	X	C	X	X	X	X	E	

Chemical Resistance Chart

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COMPOUND

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Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE
BUTANE	E	E	G	X	E	X	X	E		CHLOROBENZENE	X	X	X	X	X	X	X	G	G
BUTANOIC ACID										CHLOROBUTANE	F		X			X	X	G	F
BUTANOL (BUTYL ALCOHOL)	E	E	E	G	E	E	E	E	E	CHLORODANE				E	E				
BUTANONE					X			E	G	CHLOROTHYL BENZENE	X		X			X	X	E	E
BUTOXYETHANOL										CHLOROFORM	X	X	X	X	X	X	X	G	G
BUTYL ACETATE	G	X	X	C	X	X	X	E	E	CHLOROPENTANE	X		X			X	X	E	E
BUTYL ACRYLATE	X	X	X	X	X	X		G	G	CHLOROSULFONIC ACID	X	C	X	X	X	X	X	G	X
BUTYL ALCOHOL	E	E	E	E	E	E	E	E	E	CHLOROTOLUENE	X	X	X	X	X	X	X	G	G
BUTYL ALDEHYDE	E					F		E	E	CHLOROXY	G	G	G	G	G	X	X		
BUTYL BENZYL PHTHALATE	E	X	X	E	C	X	X	E	E	CHROME PLATING SOLUTIONS	X	X	X	G	X	X	X		
BUTYL CARBITOL	E	C	C	E	X	X	X	C	E	CHROMIC ACID	F	X	G	C	X	X	X	G	G
BUTYL CELLUSOLVE	E	X	X	G	C	X	X	E	E	CHROMIUM TRIOXIDE									
BUTYL CHLORIDE	F		X			X	X	G	G	CINNAMENE									
BUTYL ETHER	C	X	X	C	C	X	X	E	E	CIS-9-OCTADECENOIC ACID	G		X			X	X	E	
BUTYL ETHER ACETALDEHYDE	E		X			X	X	E	E	CITRIC ACID	E	E	E	E	E	E	E	E	E
BUTYL ETHYL ETHER	G		X			X	X	E	E	COAL OIL	X		X	X	X	X	X	E	E
BUTYL OLEATE	G	X	X	G	X	X	X			COAL TAR	X	G	X	X	E	X	X	E	E
BUTYL PHTHALATE	E		X			X	X	E	E	COAL TAR NAPHTHA	X		X			X	X	E	E
BUTYL STEARATE	X	X	X	X	G	X	X	E	E	COCONUT OIL	G	G	X	C	E	X	X	E	
BUTYLENE	X	C	X	X	G	X	X		F	COKE OVEN GAS	X	X	X	X	X	X	X	E	
BUTYRALDEHYDE	E	X	X	G	X	X	X	E	E	COOLANOL (MONSANTO)			E	G	X	E	X	X	
BUTYRIC ACID	F	X	X	G	X	F	X	E	E	COPPER CHLORIDE	E	C	E	E	C	F	E	E	E
BUTYRIC ANHYDRIDE	F		G			F	X	E	E	COPPER CYANIDE	E	E	E	E	E	E	E	E	
CADIUM ACETATE	G		X			X	X	E	E	COPPER HYDRATE	E		G			F	G	E	E
CALCIUM ALUMINATE	E		E			E	E	E	E	COPPER HYDROXIDE	E		G			F	G	E	E
CALCIUM BICHROMATE	E		F					G	F	COPPER SULFATE	E	E	E	E	E	F	E	E	E
CALCIUM BISULFIDE		C		X	E					CORN OIL	E	C	X	C	E	X	X	E	
CALCIUM CHLORIDE	E	E	E	E	E	E	E	E	E	COTTONSEED OIL	C	C	X	C	C	X	X	C	G
CALCIUM HYDROXIDE	E	E	G	E	E	E	G	E	E	CREOSOTE	X	C	X	X	C	X	X	E	E
CALCIUM HYPOCHLORITE	G	X	F	E	X	X	X	C	G	CRESOLS	X	X	X	X	X	X	X	E	E
CALCIUM NITRATE	E	E	E	E	E	E	E	E	E	CRESYLIC ACID	X	X	X	X	X	X	X	E	E
CALCIUM SULFIDE	E	E	E	E	G	E	E	E	E	CROTONALDEHYDE	E		X			X	X	E	E
CALCIUM ACETATE	G	G	X	E	G	X	X	E	E	CRUDE OIL	X	X	X	X	G	X	X	E	E
CAPRYLIC ACID	F		G			F	X	E	E	CUMENE	X	X	X	X	X	X	X	E	E
CARBAMIDE										CUPRIC CARBONATE	E		E			F	E	E	E
CARBITOL	F	G	X	G	G	X	X	E	E	CUPRIC HYDROXIDE									
CARBOLIC ACID PHENOL	E	X	X	G	X	X	X	E	E	CUPRIC NITRATE	E		E			F	E	E	E
CARBON DIOXIDE	E	C	E	C	X	E	E	E	E	CUPRIC SULFATE	E		E			F	E	E	E
CARBON DISULFIDE	X	X	X	X	X	X	X	C	F	CUTTING OIL	X	G	G	X	E	X	X		
CARBON MONOXIDE	E	C	E	C	E	E	G	E		CYCLOHEXANE	X	X	X	X	G	X	X	G	E
CARBON TETRACHLORIDE	X	X	X	X	X	X	X	G	G	CYCLOHEXANOL	X	G	X	X	C	X	X	E	E
CARBON ACID	E	X	E	G	X	E	E	E	E	CYCLOHEXANONE	X	X	X	X	X	X	X	E	E
CASTROL OIL	E	E	E	G	E	F	G	E		CYCLOPENTANE	X		X			X	X	E	E
CAUSTIC SODA (SEE SODIUM HYDROXIDE)									E	CYCLOPENTANOL	X		X			X	X	E	E
CELLOSOLVE ACETATE	E	X	X	G	X	X	X	E	E	CYCLOPENTANONE	X		X			X	X	E	E
CELLUGUARD	E	E	E	G	E	E	E			CYCLOPENTYL ALCOHOL									
CETYLIC ACID										D-FURALDEHYDE									
CHINA WOOD OIL (TUNG OIL)	C	G	X	X	E	X	X			DDT IN KEROSENE	X	F	X	X	E	X	X	E	E
CHLORINATED SOLVENTS	X	X	X	X	X	X	X	G	G	DECAHYDRONAPHTHALENE									
CHLORO-2-PROPANONE										DECAHYDROXYNAPHTHALENE									
CHLOROACETIC ACID	F	X	X	X	X	X	X	E	E	DECALIN	X	X	X	X	X	X	X	E	X
CHLOROACETONE	G	X	X	E	X	X	X	E	E	DECYL ALCOHOL	E		E			E	E	E	E

Chemical Resistance Chart

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COMPOUND										COMPOUND									
Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE
DECYL ALDEHYDE	E		X			X	X	E	E	DIETHYLAMINE	E	C	C	G	C	G	G	C	E
DECYL BUTYL PHTHALATE	E		X			X	X	E	E	DIETHYLENE GLYCOL	E	E	E	E	E	E	E	C	E
DECIL CARBINOL										DIETHYLENE OXIDE									
DETERGENT, WATER SOLUTION	E	G	G	E	E	G	G			DIETHYLENTRIAMINE	E		F			G	G		E
DEVELOPING FLUID (PHOTO)	G	E	E	G	E	E	G			DIETHYLTRIAMINE	E		F			G	G		E
DEXTRON	X	G	X	X	E	X	X			DIHYDROXY SUCCINIC ACID									
DI (2ETHYLHEXYL) ADIPATE										DIHYDROXYDIETHYL ETHER	E		E			E	E		E
DI (2ETHYLHEXYL) PHTHALATE										DIISOBUTYL KETONE	G	X	X	G	X	X	X	E	E
DI-ISO-BUTYLENE	X	X	X	X	G	X	X	E		DIISODECYL PHTHALATE	E		X			X	X	E	E
DI-ISO-DECYL PHTHALATE										DIISOOCTYL ADIPATE	E		X			X	X	E	E
DI-ISO-PROPANOLAMINE	E									DIISOOCTYL PHTHALATE	E		X			X	X	E	E
DI-ISO-PROPYL ETHER	F		X			X	X	E		DIMETHYL CARBINOL									E
DI-ISO-PROPYL KETONE	G	X	X	E	X	X	X	E		DIMETHYL KETONE									E
DI-P-MENTHA-1,8-DIENE										DIMETHYL PHTHALATE	G	X	X	G	X	X	X	E	E
DIACETONE ALCOHOL	E	X	X	X	X	X	X	C	E	DIMETHYL SULFATE									E
DIACETYLMETHANE										DIMETHYL SULFIDE									G
DIALLYLPHTHALATE										DIMETHYL-3-PENTANONE									
DIAMMONIUM PHOSPHATE										DIMETHYL-4-HEPTANONE									
DIAMYL NAPHTHALENE	E		X			X	X	E		DIMETHYLAMINE									E E
DIAMYLAMINE	E		G			F	G		E	DIMETHYLANILINE	C	C	X	G	C		C		
DIAMYLENE	X		X			X	X	E	E	DIMETHYLBENZENE									E
DIAMYLPHENOL	X		X			X	X	E	E	DIMETHYLBUTANE									
DIBENZYL ETHER	E	X	X	X	X	X	X	E	E	DICTYL ADIPATE									E
DIBROMOBENZENE	X		X			X	X	E	G	DICTYL PHTHALATE	E	X	X	C	C	X	X	E	E
DIBROMOMETHANE										DIOXALANE	C	X	X	G	X	X	X	E	E
DIBUTYL ETHER	G	X	X	C	X	X	X	E	E	DIOXANE	G	X	X	G	X	X	X		E
DIBUTYL PHTHALATE	C	X	X	C	X	X	X	E	E	DIPENTENE	X	X	X	X	G	X	X		
DIBUTYL SEBACATE	E	X	X	G	X	X	X	E	E	DIPENTYLAMINE									
DIBUTYLAMINE	X	X	X	X	X	X	X		E	DIPROPYLAMINEOLAMINE	E		G			G	G		E
DICALCIUM PHOSPHATE	E		E			E	E	E	E	DIPROPYLENE GLYCOL	E		E			E	E		E
DICHLORO ETHYLENE									F	DISODIUM PHOSPHATE	E		E			E	E	E	E
DICHLOROACETIC ACID	F		X			G	X	E	E	DIVINYL BENZENE	X		X			X	X	E	E
DICHLOROBENZENE	X	X	X	X	X	X	X	G	G	DOWELL INHIBITOR									
DICHLOROBUTANE	X	X	X	X	G	X	X	E	E	DOWFAX 2A1 SOLVENT									
DICHLORODIFLUOROMETHANE	X	X				X	X		I	DOWFAX 2A1 TA									
DICHLOROETHANE	X	X				X	X	E	E	DOWFAX 6A1 SOLVENT									
DICHLOROETHYL ETHER	X	X				X	X	E	E	DOWFAX 6A1 TA									
DICHLOROHEXANE	X	X				X	X	E	E	DOWTHERM, A AND E	X	X	X	X	X	X	X	E	E
DICHLOROMETHANE	X	X				X	X	E	E	DRY CLEANING FLUIDS	X	X	X	X	C		X		
DICHLOROPENTANE	X	X				X	X	E	E	DUCGKIRIOEBAANE	X								
DICHLOROPROPANE	X		X			X	X	E	E	DURD AW-16,31				X	E				
DICHLOROPROPENE								E		DURO FR-HD				X	E				
DICHLOROTOLUENE										ETHANOIC ACID									
DIESEL OIL	X	C	C	X	E	X	X	C	E	ETHANOL(GRAIN ALCOHOL)	E	E	E	E	C	E	E	E	E
DIETHANOL AMINE	E		F			G	G		E	ETHANOLAMINE	E	G	C	E	G	G	G	C	E
DIETHYLBENZINE	X	X	X	X	X	X	X	E	E	ETHERS	X	X	X	C	X	X	X		
DIETHYL ETHER	X	C	X	X	X	X	X	E		ETHYL ACETATE	G	X	X	C	X	X	X	E	E
DIETHYL KETONE	G		X			F	X	E	E	ETHYL ACETOACETATE	G	X	X	G	X	X	X	E	E
DIETHYL OXALATE	E		X			E	E	E	E	ETHYL ACETONE									
DIETHYL PHTHALATE	E	X	X	G		X	X	E	E	ETHYL ACRYLATE	G	X	X	G	X	X	X	G	E
DIETHYL SEBACATE	E	X	X	C	X	X	X		E	ETHYL ALCOHOL	E	E	E	E	C	E	E	E	E
DIETHYL SULFATE									E	ETHYL ALDEHYDE	E					F		E	E

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Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE
ETHYL ALUMINIUM DICHLORIDE	X		X			X	X	G	F	FURFURYL ALCOHOL	F	X	X	G	X	X	X	E	E
ETHYL BENZENE	X	X	X	X	X	X	X	E	E	GALLIC ACID	G	X	C	G	C	E	C	C	E
ETHYL BROMIDE	X	X	X	X	G	X				GALLOTANNIC ACID									
ETHYL BUTYL ACETATE	G		X			X	X	E	E	GAS, COAL									
ETHYL BUTYL ALCOHOL	E		E			E	E	E	E	GAS, HIGH OCTANE		X		X	G				
ETHYL CELLULOSE	G	G	G	G	G	G	G	E		GASOLINE	X	X	X	X	E	X	X	E	G
ETHYL CHLORIDE	F	X	X	X	X	X	X	G	G	GLACIAL ACRYLIC ACID									E
ETHYL DICHLORIDE	X		X			X	X	G	G	GLUCONIC ACID	F		G			X	X	E	E
ETHYL DIISOBUTYLTHIO-CABARMATE						E	E			GLUCOSE	E	G	E	G	G	E	E	E	G
ETHYL ETHER	C	X	X	X	C	X	X	E	E	GLYCERINE	E	E	E	E	E	E	E	C	E
ETHYL FORMATE	G	G	X	G	X	X	X	E	E	GLYCEROL	E	E	E	E	E	E	E		
ETHYL IODIDE	X		X			X	X	G	F	GLYCOGENIC ACID									
ETHYL OXALATE	X	X	X	X	X	X	X	E	E	GLYCOLS	E	E	E	E	E	E	E	E	G
ETHYL PHTHALATE									E	GLYCONIC ACID									
ETHYL SILICATE	E	E	G	E	E	F	F	E	E	GLYCLYL ALCOHOL									
ETHYL-N-BUTYL KETONE	G		X			X	X	E	E	GREASE	X	X	X	X	E	X	X	G	E
ETHYL-1-BUTANOL	E		E			E	E	E	E	GREEN SULPHATE LIQUOR	E	G	E	E	G	E	E	E	E
ETHYLAMINE	G		F			F	F		E	HALON 1211		E			E				
ETHYLENE CHLOROXYDRIN	G	C	G	C	X	G	G	E	G	HELIUM	E	E	E	E	E	E	E		
ETHYLENE DIAMINE	E	E	F	E	E	G	G	E	E	HEPTALDEHYDE									
ETHYLENE DIBROMIDE	X	X	X	C	X	X	X	G	F	HEPTANAL	E		X			X	X	E	E
ETHYLENE DICHLORIDE	X	X	X	X	X	X	X	G	G	HEPTANE	X	G	X	X	E	X	X	G	E
ETHYLENE G. MONOETHYL E ACETATE								E		HEPTANE CARBOXYLIC ACID									E
ETHYLENE G. MONOBUTYL ETHER								E		HEPTANOIC ACID									
ETHYLENE G. MONOETHYL ETHER								E		HEPTANONE									
ETHYLENE G. MONOHEXIL ETHER								E		HEXADECANOIC ACID									
ETHYLENE GLYCOL	E	E	E	E	E	E	E	C	E	HEXALDEHYDE	G	E	C	E	X	X	X	E	E
ETHYLENE OXIDE	C	X	X	C	X	X	X		E	HEXANE	X	C	X	X	C	X	X	G	G
FATTY ACIDS	X	C	X	X	C	X	X	E	G	HEXANOL	E		E			E	E	E	E
FERRIC BROMIDE	E		E			E	E	E	E	HEXENE	X	G	G	X	G	X	X	E	G
FERRIC CHLORIDE	E	G	E	E	E	E	E	E	E	HEXYL ALCOHOL	C	G	C	C	E	E	E	E	E
FERRIC NITRATE	E	E	E	E	E	E	E	E	E	HEXYL METHYL KETONE	G		X			X	X	E	E
FERRIC SULFATE	E	E	E	E	E	E	E	E	E	HEXYLAMINE	E		F			G	G		E
FERROUS ACETATE	G		X			X	X	E	E	HEXYLENE GLYCOL	E		E			E	E		E
FERROUS CHLORIDE	E	E	E	E	E	E	E	E	E	HISTOWAX									
FERROUS SULFATE	E	E	E	E	G	E	E	E	E	HYDRAULIC & MOTOR OIL	X	C	G	X	E	X	X	E	
FLUOBORIC ACID	E	C	E	E	C	E	G	C	G	HYDRAZINE	E	G	E	X	X	X			
FLUORINE	C	X		X	X	X	X	X	X	HYDROBROMIC ACID	E	X	E	E	X	E	X	C	G
FLUOSILICIC ACID	E	C	E	E	C	E	C	C	G	HYDROCHLORIC ACID	F	X	X	X	X	E	X	E	E
FORMALDEHYDE	E	C	C	G	X	G	C	E	E	HYDROCIANIC ACID	E	E	C	C	C	X			
FORMALIN	E		E			G	G	E	E	HYDROFLUORIC ACID	E	X	E	X	X	X	X	C	E
FORMIC ACID	E	C	F	E	X	G	G	C	E	HYDROFLUOSILICIC ACID	E	C	E	E		X			G
FREON SO2		E		E						HYDROGEN CHLORIDE ANHYDROUS									
FREON 113		E	E	C	E	C	G			HYDROGEN DIOXIDE (10%)	F					X	X		G
FREON 12	X	G	X	X	G	X	X	C	E	HYDROGEN GAS	E	E	G	E	E	G	G	E	E
FREON 22	F	X	X		X	X	X	C	E	HYDROGEN PEROXIDE OVER 10%	X	X	X	X	X	X	X	C	F
FUEL A (ASTM)	X	G	X	X	E	X	X	G	G	HYDROGEN PEROXIDE 10%	F	F	F	F	X	X	X	C	G
FUEL B (ASTM)	X	F	X	X	E	X	X	G	G	HYDROGEN SULFIDE (WET)	E	C	X	E	X	X	X	E	G
FUEL OIL	X	G	C	X	E	X	X	C	E	HYDROXY BENZENE									
FURAN	X	X	X	C	X	X	X			HYDROXYISOBUTYRONIRILE									
FURFURAL	E	X	X	C	X	X	X	E	E	HYDROXYTOLUENE									
FURFURAN		X	X	C	X	X	X			HYVAR VXL				E					

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COMPOUND										COMPOUND										
Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	
IMINODI-2-PROPANOL										METHANOIC ACID										
IMINODIETHANOL										METHANOL (METHYL ALCOHOL)	E	E	E	E	E	E	E	E		E
IODINE	C	X	E	C	C	C	C	C	E	METHANOL (WOOD ALCOHOL)	E	E	E	E	E	E	E	E	E	E
IODINE PENTAFLUORIDE	X	X	X	X	X	X	X			METHOXY ETHANOL										
ODOFORM		X		X	E	X	X			METHOXYETHOXY ETHANOL										
ISO-BUTANAL									E	METHOXYPROPENYL BENZENE										
ISO-BUTYLAMINE									E	METHYL ACETATE	G	X	X	E	X	X	X	E	E	
ISO-BUTYLBROMIDE									G	METHYL ACETOACETATE	G	X	X	G	X	X	X	E	E	
ISO-BUTYLCARBINOL									E	METHYL ACETONE	G		X			F	X	E	E	
ISOCYANATES								E	E	METHYL ACETYLENE PROPADIENE		E		G	E		G			
ISOOCTANE	X	C	X	X	E	X	X	E	G	METHYL ALLYL ALCOHOL										
ISOPHOPYL ACETATE	G	X	X	X	X	X	X	E	E	METHYL ALLYL CHLORIDE	F		X			X	X	G	E	
ISOPHOPYL ALCOHOL	E	C	E	E	C	E	E	E	E	METHYL AMYL CARBINOL	E		E			E	E	E	E	
ISOPROPYL ETHER	X	X	C	X	C	X	X	E	E	METHYL BENZENE	X		X			X	X	E	E	
JET FUELS	X	G	X	X	E	X	X	E	E	METHYL BROMIDE	X	X	X	X	C	X	X	G		
JP-4 OIL	X	X	X	X	G	X	X			METHYL BUTANE										
KEROSENE	X	C	X	X	E	X	X	E	E	METHYL BUTYL ALCOHOL										E
KETONES	E	X	X	E	C	X	X			METHYL BUTYL KETONE	G	X	X	E	X	X	X		E	
LACQUER SOLVENTS	X	X	X	X	X	X	X	G		METHYL CARBITOL	F		X			X	X	E	E	
LACTIC ACID - COLD	E	E	G	X	X	G	G	C		METHYL CELLOSOLVE	E	C	X	G	C	X	X		E	
LACTIC ACID - HOT		X	C	X	X	X	X			METHYL CHLORIDE	C	X	X	X	X	X	X	G	E	
LARD	X	C	X	X	E	X	X	C		METHYL CYANIDE										
LAVENDER OIL	X	X	X	X	G	X	X	G		METHYL ETHYL KETONE	G	X	X	E	X	X	X	E	E	
LEAD ACETATE	G	G	X	E	G	E	X	E	E	METHYL HEXANOL	E		E			E	E	E	E	
LEAD NITRATE	E	E	X	E	E	E	E			METHYL METHACRYLATE	X	X	X	C	X	X	X	G	G	
LEAD SULFATE		E	E	E				E	E	METHYL NORMAL AMYL KETONE	G		X			X	X	E	E	
LIME		C		G	X					METHYL PROPYL ETHER	G		X			X	X	E	E	
LIME BLEACH	E	G	G	E	E	E	G			METHYL SALICYLATE	G	X	X	G	X	C	C			
LIME SULFUR	E	E	E	E	X	X	X	E		METHYL STYRENE										
LIMONENE										METHYL SULFIDE										
LINOLEIC ACID	X	X	X	X	G	X	X			METHYL TERTIARY METYL ETHER	G	X			X		X			
LINSEED OIL	C	C	C	X	E	X	X	C	E	METHYL 1-2, 4-PENTANEDIOL										
LIQUID PETROLEUM GAS (LPG)	X	G	X	X	E	X	X	E	X	METHYL-ISO-AMYL-KETONE										
LUBRICATING OIL	X	C	F	X	G	X	X	E	E	METHYL-L-PROPANOL										
LYE SOLUTIONS	E	G	E	E	G	G	G		G	METHYL-2-BUTANOL	E		E			E	E	E		
MEK	G	X	X	E	X	X	X	E	G	METHYL-2-BUTANONE	G		X			X	X	E		
MAGNESIUM ACETATE	G							E	E	METHYL-2-HEXANONE	G		X			X	X	E		
MAGNESIUM CHLORIDE	E	E	E	E	E	E	E	E	E	METHYL-2-PENTANOL										
MAGNESIUM HYDRATE	E		G			E	G	E	E	METHYL-2-PENTANONE										
MAGNESIUM HYDROXIDE	E	G	G	E	G	E	G	E	E	METHYL-2-PROPEN-L-OL										
MAGNESIUM SULFATE & SULPHITE	E	E	E	E	E	E	E	E	E	METHYL-3-PENTEN-1-ONE										
MALEIC ACID	X	X	X	X	X	X	X	G	E	METHYL-4-ISOPROPYL BENZENE										
MALEIC ANHYDRIDE	X	X	X	X	X	X	X			METHYLALLYL ACETATE	G		X			X	X	E		
MALIC ACID	X	C	G	X	C	C	C	C	G	METHYLAMYL ALCOHOL	E		E			E	E	E	E	
MANGANOUS SULFATE										METHYLCYCLOEXANE	X		X			X	X	G	E	
MAPP		E		G	E		G			METHYLENE BROMIDE										G
MERCURY	E	E	E	E	E	E	E	E		METHYLENE CHLORIDE	X	X	X	X	X	X	X	G	G	
MERCURY VAPORS	E	E	E	E	E	E	E			METHYLETHYL KETONE	G	X	X	E	X	X	X	E		
MESITYL OXIDE	G	X	X	G	X	X	X	E	E	METHYLEXYL KETONE	G		X			X	X	E		
METHALLYL ALCOHOL	E		E			E	E	E	E	METHYLISOBUTYL CARBINOL	E	G	C	E	G	G	G	C	E	
METHALLYL CHLORIDE										METHYLISOBUTYL KETONE	C	X	X	C	X	X	X	E	E	
METHANE CARBOXYLIC ACID		G		X						METHYLISOPROPYL KETONE	G	X	X	X	X	X	X	E	E	

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COMPOUND

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Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE
METHYLLACTONITRILE										MOBILE HFA				X	E				
METHYLPHENOL										MOLTEN SULFUR	G		F			X	X	X	
METHYLPROPYL CARBINOL	E		G			G	G	E	E	MONO-CHLOROACETIC ACID	F		X			G	X	E	E
METHYLPROPYL KETONE	G		X			X	X	E	E	MONOBUTYL ETHER	F		X			X	X	E	
MIL-A-6091	E	E	E	E	G	E	E			MONOCHLOROBENZENE	X	X	X	X	X	X	X	G	G
MIL-C-4339	X	X	X	X	E	X	X			MONOCHLORODIFLUOROMETHANE	F		X			X	X	C	I
MIL-C-7024	X	X	X	X	E	X	X			MONOETHANOL AMINE	E	X	X	E	X	E	X	E	E
MIL-E-9500	E	E	E	E	E	E	E			MONOETHYL AMINE	G		F			F	F	C	E
MIL-F-16884	X	C	C	X	E	X	X			MORPHOLINE				X	X				
MIL-F-17111	X	G	X	X	E	X	X			MOTOR OIL, 40w									
MIL-F-25558 (RJ-1)		G		X	E					MTBE	G	X			X		X		F
MIL-G-10924	X	X	G	X	E	X	X			MURIATIC ACID	F	X	X	F	X	E	X	E	E
MIL-G-25013	X	G	G	X	E	X	X			N-BUTANAL									
MIL-G-25537		G		X	E					N-BUTYLAMINE	X	X	X	X	C	X	X		
MIL-G-3545	X	G	C	X	E	X	X			N-BUTYLBENZENE	X		X			X	X	E	
MIL-G-5572	X	X	X	X	E	X	X			N-BUTYLBROMIDE	X		X			X	X	G	
MIL-G-7711	X	X	X	X	E	X	X			N-BUTYLBUTYRATE	F		X			X	X	G	
MIL-H-05606 (HFA)		G		X	E					N-BUTYLCARBINOL									
MIL-H-13910	G	E	G	E	E	G	E			N-NONYL ALCOHOL									
MIL-H-19457	E	X	X	E	X	X	X			N-OCTANE	X	G	X	X	G	X	X	G	
MIL-H-22251	E	G	G	E	G		G			N-SERV (75% XYLENE)									C
MIL-H-27601		G		X	E					NA-K				X	X				
MIL-H-5606 (J43)		G		X	E					NAPHTHA	X	X		X	C	X	X	E	E
MIL-H-6083	X	E	G	X	E	X	X			NAPHTHALENE	F	X	X	X	X	X	X	E	E
MIL-H-8446 (MLO-8515)	X	E		X	G	X	X			NAPHTHENIC ACID		X	X	X	G	X	X		
MIL-J-5161	X	X	X	X	G	X	X			NATURAL GAS	X	E	F	X	E	X	X	C	
MIL-J-5624 (JP-3,JP-4,JP-5)	X	X	X	X	E	X	X			NEOHXANE	X		X			X	X	E	E
MIL-L-15016	X	G	G	X	E	X	X			NEON GAS	E	E	E	E	E	E	E		
MIL-L-17331	X	G	G	X	E	X	X			NEU-TRI	X		X			X	X	E	E
MIL-L-2104	X	G	C	X	E	X	X			NICKEL ACETATE	E	G	X	E	G	E	X	E	
MIL-L-21260	X	G	G	X	E	X	X			NICKEL CHLORIDE	E	G	E	E	E	E	E	E	E
MIL-L-23699	X	C	C	X	G	X	X			NICKEL NITRATE	E	E	E	E		E	E	E	E
MIL-L-25681		G		E	G					NICKEL SULFATE	E	E	E	E	E	E	E	E	E
MIL-L-3150	X	G	G	X	E	X	X			NIETYLENE						E			
MIL-L-4343	C	E	G	C	E	X	X			NITRIC ACID, CONC (16N)	C	X	G	X	X	X	X	G	
MIL-L-6082	X	G	G	X	E	X	X			NITRIC ACID, RED FUMING	G	X	X	X	X	X	X	X	X
MIL-L-6085	X	X	X	X	G	X	X			NUTRIC ACID,10%	G	X	X	C	X	X	X	C	E
MIL-L-7808	X	X	X	X	G	X	X			NITRIC ACID, 13N +5%									
MIL-L-7870	X	G	X	X	E	X	X			NITRIC ACID, 13N +5%									
MIL-L-9000	X	G	C	X	E	X	X			NITRIC ACID, 20%	G	X	X	G	X	X	X	E	E
MIL-L-9236	X	X	X	X	G	X	X			NITRIC ACID, 30%	F	X	X	C	X	X	X	E	G
MIL-P-27402		G		E	G					NITRIC ACID, 30% - 70%	F	X	F	F	X	X	X	G	F
MIL-R-25567 (RP-1)			X							NITRILOTRIETHANOL									
MIL-S-3136 TYPE 1 FUEL	X	G	C	X	E	X	X			NITROBENZENE	F	X	X	X	X	X	X	E	E
MIL-S-3136 TYPE 2 FUEL	X	X	X	X	G	X	X			NITROETHANE	G	C	G	G	X	G	G	E	
MIL-S-3136 TYPE 3 FUEL	X	X	X	X	G	X	X			NITROGEN	E	E	E	E	E	E	E	E	E
MIL-S-3136 TYPE 4 OIL, LOWSWELL	X	E	E	X	E	X	X			NITROMETHANE	G	C	C	G	X	G	C	E	
MIL-S-3136 TYPE 5 OIL, MEDSWELL	X	G	G	X	E	X	X			NITROUS OXIDE GAS									E
MIL-S-3136 TYPE 6 OIL, HI SWELL	X	X	X	X	E	X	X			NONANOIC ACID									
MIL-S-81087		E		E	E					NONANOL									
MINERAL OIL	X	C	F	X	E	X	X	E		NUTO H				X	E				
MINERAL SPIRITS	X	F	X	X	E	X	X	E	E	NYVAC LIGHT				E	X				

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OCTANOIC ACID										PHENYLBUTANE									
OCTANOL	E		G			G	G	E	E	PHENYLCHLORIDE	X		X			X	X	E	E
OCTYL ACETATE	G		X			X	X	E	E	PHENYLETHYLENE									
OCTYL ALCOHOL	E	G	E	C	G	E	E	E	E	PHENYLMETHANE									
OCTYL ALDEHYDE	E		X			X	X	E	E	PHENYLMETHANOL									
OCTYL AMINE	E		F			G	G	C	E	PHENYLMETHYL ACETATE									
OCTYL CARBINOL	E		E			E	E	E	E	PHOSPHATE ESTERS				E	X				
OCTYLENE GLYCOL	E		E			E	E	C	E	PHOSPHORIC ACID 10%	E	X	E	X	X	E	E	E	E
OIL-PETROLEUM	X	G	F	X	E	X	X	E	G	PHOSFORIC ACID 10%-85%	G	X	E	X	X	G	X	E	E
OLEIC ACID	G	X	X	X	C	X	X	E	E	PHOSPHORUS TRICHLORIDE	E	X	E	X	X	X	X		
OLEUM (FUMING SULFURIC ACID)	X	X	X	X	C	X	X	X	X	PIC ACID, H2O SOLUTION		C	G	X	X	G	G		
OLIVE OIL	E	E	F	E	E	X	X	C		PINE OIL	X	X	X	X	X	X	X	E	E
ORTHO-DICHLOROBENZENE	X	X	X	X	X	X	X	G	E	PINENE	X	F	X	X	G	X	X	E	E
ORTHO-DICHLOROBENZOL	X		X			X	X	G	E	POLY CHLORINATED BIPHENOL									
ORTHOXYLENE	X		X			X	X	E	G	POLYETHYLENE GLYCOL E-400	E		E			E	E		E
OXALIC ACID	E	X	X	E	X	X	X	C	E	POLYOL ESTER	X	X		X	G	X			
OXYDIETHANOL										POLYPROPYLENE GLYCOL	E		E			E	E		E
OZONE	G	C	G	E	X	X	X	C	E	POTASSIUM ACETATE	G	G	X	E	G	X	X	E	E
P-CYMENE	X	X	X	X	X	X	X	E		POTASSIUM BISULFATE	E		E			E	E	E	E
PAINT THINNER	X	X	X	X	X	X	X			POTASSIUM BISULFITE	E		E			E	E		E
PALMITIC ACID	E	C	C	C	E	X	X	C	E	POTASSIUM CARBONATE	E	E	E	E		E	E	E	E
PAPERMAKERS ALUM	E	E	E	E	E	E	E	E	E	POTASSIUM CHLORIDE	E	E	E	E	E	E	E	E	E
PARA-DICHLOROBENZENE	X	X	X	X	X	X	X	G		POTASSIUM CHROMATE	E		F					G	G
PARAFFIN WAX	X	G	X	X	E	X	X	X	E	POTASSIUM CYANIDE	E	E	E	E	E	E	E	E	
PARALDEHYDE	E					F		E	E	POTASSIUM DICHROMATE	E	E	F	E	E	G	G	G	G
PARAXYLENE	X		X			X	X	E	E	POTASSIUM HYDRATE	E		G			E	G	E	E
PCB										POTASSIUM HYDROXYDE	E	C	G	E	X	E	G	E	G
PELARGONIC ALCOHOL	E		X			X	X	E		POTASSIUM NITRATE	E	E	E	E	E	E	E	E	E
PENTACHLOROETHANE	X		X			X	X	E	E	POTASSIUM PERMANGANATE, 5%									
PENTADIONE										POTASSIUM SILICATE	E		E			E	E	E	E
PENTAMETHYLENE										POTASSIUM SULFATE	E	E	E	E	E	E	E	E	E
PENTANE	X	G	F	X	E	X	X	G	G	POTASSIUM SULFIDE									E
PENTANOL									E	POTASSIUM SULFITE	E	E	E	E		E	E	E	E
PENTANONE	G		X			X	X	E	E	PRESTONE ANTIFREEZE		E	E	E					
PENTASOL	E	E	E			E	E	E		PRODUCER GAS	X	G	G	X	E	X	E		
PENTYL ACETATE										PROPANE	X	C	G	X	E	X	X	E	
PENTYL ALCOHOL										PROPANEDIOL	E		E			E	E		E
PENTYL BROMIDE										PROPANETRIOL									
PENTYL CHLORIDE										PROPANOL	E		E			E	E	E	E
PENTYL ETHER										PROPANOLAMINE									E
PENTYLAMINE										PROPANONE									
PERCHLORIC ACID - 2N	G	C	G	C	X	X	X	E		PROPEN-L-OL									
PERCHLOROETHYLENE	X	X	X	X	X	X	X	G	G	PROPENEDIAMENE									
PERCHLOROMETHANE										PROPENETRILE									
PETROLEUM CRUDE	X	G	X	X	E	X	X	E	E	PROPENYL ALCOHOL									
PETROLEUM ETHER	X		X	X	G	X	X	E	E	PROPENYLANISOLE									
PETROLEUM OILS	X	G	X	X	X	X	X	E	E	PROPIONIC ACID				E	X				E
PHENBO										PRIOPIONITRILE		G		X	E				
PHENOL	E	X	X	X	X	X	X	E	E	PROPYL ACETATE	G	X	X	G	X	X	X	E	E
PHENOLSULFONIC ACID	F		X			X	X	G	F	PROPYL ALCOHOL	E	E	E	E	E	E	E	E	E
PHENYLAMINE									G	PROPYL ALDEHYDE	E					F		E	E
PHENYLBROMIDE										PROPYL BENZENE									E

Chemical Resistance Chart

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COMPOUND

COMPOUND

Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	
PROPYL CHLORIDE	F		X			X	X	G	G	SODIUM SULFIDE	E	E	E	E	E	E	E	E	E	
PROPYL ETHER										SODIUM SULFITE	E	E	E	E	E	E	E	E	E	
PROPYL NITRATE	G	X	X	G	X	X	X			SODIUM THIOSULFATE	E	E	E	E	G	E	E	E	E	
PROPYLENE	X	X	X	X	X	X	X			SOYBEAN OIL	E	G	G	C	E	X	X	E	G	
PROPYLENE DIAMINE	E		F			G	G		E	STANNIC CHLORIDE	E	X	E	E	E	E	E	E	E	
PROPYLENE GLYCOL	E		E			E	E		E	STANNIC SULFIDE	E		E			E	E	E	E	
PYDRAUL, 'E' SERIES		X	X	E	X	X	X	E		STANNOUS CHLORIDE	E	E	E	E	E	E	E	E	E	
PYDRAULIC 'C'		X		X	X					STANNOUS SULFIDE	E		E			E	E	E	E	
QUINTOLUBRIC 822 SERIES	X	X		X	G	X				STEAM, BELOW 350 DEG F	G	X	X	E	X	X	X	X		
RED OIL	X	G	G	X	E	X	X			STEARIC ACID	G	G	X	G	G	X	X	E	E	
REFRIGERANT 11		X		X	G					STODDARD SOLVENT	X	G	X	X	E	X	X	E	E	
REFRIGERANT 12		G		X	E					STYRENE	X	X	X	X	X	X	X	G	G	
REFRIGERANT 22		G		X	X					SULFAMIC ACID	E	G	G	E	G	G	G	C	F	
RESORCINOL					X					SULFUR	F	X	F	F	X	X	X	X		
SAE No. 10 OIL		C	X		G					SULFUR CHLORIDE	X	C	G	X	C	X	X	E		
SAL AMMONIAC	E	E	E	E	E	E	E			SULFUR DIOXIDE	G	X	G	G	X	C	C	C	G	
SEA WATER	E	G	E	E	E	E	E	E	E	SULFUR TRIOXIDE, DRY	G	X	X	G	X	G	G	G		
SEWAGE	F	E	E	F	E	F	F	E	E	SULFURIC ACID 60% (200F)									G	
SILICATE ESTERS	X	E	E	X	G	X	X			SULFURIC ACID, CONC.	X	X	E	X	X	X	X	E	X	
SILICATE OF SODA	E		E			E	E	E	E	SULFURIC ACID, FUMING	X	X	X	X	X	X	X	X	X	
SILICONE GREASE	E	E	E	E	E	E	E			SULFURIC ACID, 25%	E	X	X	E	X	G	X	E	E	
SILICONE OIL	E	E	E	E	E	E	E			SULFURIC ACID, 25%-50%	E	X	X	E	X	G	X	E	G	
SILVER NITRATE	E	E	E	E	G	E	E	E		SULFURIC ACID, 50%-96%	X	X	G	X	X	X	X	E	G	
SKYDROL 500 TYPE 2		X	X	E	X					SULFUROUS ACID, 10%	E	X	E	G	X	E	G	E	E	
SKYDROL 500B	G	X	X	E						SULFUROUS ACID, 10%-85%	E	X	E	G	X	E	X	E	E	
SKYDROL 500C	G	X	X							SUTAN									E	
SKYDROL 7000 TYPE 2		X		E	X					T-BUTYL AMINE			X	G						
SOAP SOLUTIONS	E	G	E	E	E	G	E	E	E	TALL OIL	X	G	X	X	E	X	X	C	E	
SODA ASH	E	E	E	E	E	E	E	E	E	TALLOW	X	G	X	X	E	X	X	C	E	
SODA LIME	E		G			E	G	E	E	TANNIC ACID	E	G	E	E	E	E	F	C	E	
SODA NITER	E		E			E	E	E	E	TAR	X	G	X	X	X	X	X	X	X	
SODIUM ACETATE	G	G	X	E	G	X	X	E	E	TAR BITUMINOUS	X	C	X	X	G	X	X			
SODIUM ALUMINATE	E		E			E	E	E	E	TARTARIC ACID	E	G	E	G	E	C	X	C	E	
SODIUM BICARBONATE	E	E	E	E	E	E	E			TELONE 2									E	
SODIUM BISULFATE	F	E	E	E	E	F	F	E	E	TERTIARY BUTYL ALCOHOL	E	G	E	G	G	E	E	E	E	
SODIUM BISULFITE	E	E	E	E	E	E	E	C	E	TERPINOL	C	X	X	C	G	X	X	G		
SODIUM BORATE	E	E	E	E	E	E	E			TERTIARY BUTYL AMINE			X	G						
SODIUM CARBONATE	E	E	E	E	E	E	E	E	E	TERTIARY BUTYL MERCAPTAN	X	X	X	X	X	X	X			
SODIUM CHLORIDE	E	E	E	E	E	E	E	E	E	TEST ENTRY	G	E						X		
SODIUM CYANIDE	E	E	E	E	E	E	E	E		TEST ENTRY 1										
SODIUM DICHROMATE	E	C	F	E	C	C	C	G	E	TETRACHLOROENZENE	X		X			X	X	G	G	
SODIUM HYDRATE	E		G			E	G	E	E	TETRACHLOROETHANE	X		X			X	X	E	G	
SODIUM HYDROCHLORITE	G	X	F	G	X	X	X	G	E	TETRACHLOROETHYLENE	X	X	X	X	X	X	X	E	E	
SODIUM HYDROXIDE (CAUSTIC SODA)	E	G	G	E	X	E	G	E	E	TETRACHLOROMETHANE	X		X			X	X	E	E	
SODIUM HYPOCHLORITE	G	X	F	G	G	X	X	G	G	TETRACHLORONAPHTHALENE	X		X			X	X	G	G	
SODIUM METAPHOSPHATE	E	G	G	E	E	E	E	E		TETRAETHYLENE GLYCOL	E		E			E	E		E	
SODIUM NITRATE	E	G	E	E	G	E	E	E	E	TETRAETHYLORTHOSSILICATE										
SODIUM PERBORATE	E	G	G	E	G	G	G	E		TETRAHYDROFURAN	X	X	X	X	X	X	X	C	G	
SODIUM PEROXIDE	E	G	G	E	G	G	G	E		THF									C	I
SODIUM PHOSPHATE	E	G	E	E	E	E	E	E		TIN CHLORIDE	E		E			E	E	E	E	
SODIUM SILICATE	E	E	E	E	E	E	E	E	E	TITANIUM TETRACHLORIDE	X	X	X	X	G	X	X		G	
SODIUM SULFATE	E	E	E	E	E	E	E	E	E	TOLUENE	E	X	X	X	X	X	X	G	E	

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COMPOUND										COMPOUND									
Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE	Chemical or Material Conveyed	IIR	CR	CSM	EPDM	NBR	NR	SBR	XLPE	UHMWPE
TOLUIDINE									F	WHITE OIL	X	E	X	X	E	X	X	X	E
TOLUOL									E	WHITE PINE OIL	X	X	X	X	G	X	X		
TRANSFORMER OIL	X	G	C	X	E	X	X		F	WINES	E	E	E	E	E	E	E	X	
TRANSMISSION 'A' OIL	X	G	X	X	E	X	X	F	G	WOOD ALCOHOL	E	E	E	E	E	E	E	E	E
Tri(2-HYDROXYETHYL) AMINE									E	WOOD OIL	X	G	C	X	E	X	X	E	
TRIBUTYL PHOSPHATE	E	X	X	G	X	X	X	E	E	XENON	E	E	E	E	E	E	E		
TRIBUTYLAMINE	E	G	F			G	G		E	XYLENE, XYLON	X	X	X	X	X	X	X	G	G
TRICHLOROACETIC ACID	G	X	X	G	G	C	G	E		XYLIDINE	X	C	X	G	C	C	C	G	G
TRICHLOROBENZENE	X		X			X	X	G	G	ZEOLITES	E	E	E	E	E	E	E		
TRICHLOROETHANE	X	X	X	X	X	X	X	G	E	ZINC ACETATE	E	E	E	E	E	E	X		
TRICHLOROETHYLENE	X	X	X	X	X	X	X	G	F	ZINC CARBONATE	E		E			E	E	E	E
TRICHLOROMETHANE										ZINC CHLORIDE	E	E	E	E	E	E	E	E	E
TRICHLOROTOLUENE										ZINC CHROMATE	E		F					G	E
TRICRESYL PHOSPHATE	E	X	X	X	X	X	X	E	E	ZINC SULFATE	E	E	E	E	E	E	E	E	E
TRITHANOLAMINE	E	G	G	G	C	E	X	E	E	O-AMINOTOLUENE									
TRIETHYLAMINE	E		F			G	G		E	1 UNDECANOL	E		E			E	E	E	G
TRIETHYLENE GLYCOL	E		E			E	E		E	1-AMINO-2-PROPANOL									
TRIHYDROXYBENZOIC ACID										1-AMINOBUTANE									
TRIMETHYL PENTANES (MIXED)										1-AMINOPENTANE									
TRIMETHYL PENTENE										1-BROMO-2-METHYL PROPANE									
TRIMETHYLAMINE								E		1-BROMO-3-METHYL BUTANE									
TRISODIUM PHOSPHATE	E	E	E	E	E	E	E	E	E	1-BROMOBUTANE									
TRITOYL PHOSPHATE										1-CHLORO-2-METHYL PROPANE									
TUNG OIL		G								1-CHLORO-3-METHYL BUTANE									
TUNGOIL (CHINA OIL)	C	G	C	X	E	X	X	E		1-DECANOL	E		E			E	E	E	E
TURPENTINE	X	X	X	X	X	X	X	G	E	1-HENDACANOL									
UDMH		G	E	E	G	E	E			1,4-DIOXANE	G	X	X	E		X	X	E	
UNDECYL ALCOHOL										2 (2AMINOETHYLAMINO) ETHANOL									
UREA	E	E						E	E	2 (2ETHOXYETHOXY) ETHANOL									
URETHANE FORMULATIONS					E					2 (2ETHOXYETHOXY) ETHYL ACETATE									
URIC ACID										2-AMINOETHANOL	E		G			G	G		
VARNISH	X	X	X	X	G	X	X			2-CHLORO-1-HYDROXY-BENZENE									
VEGETABLE OILS	E	C	X	C	E	X	X	E		2-CHLOROPHENOL	X	X	X	X	X	X	X	G	E
VERSILUBE F44					E					2-CHLOROPROPANE		X	X	X		X	X	E	E
VERSILUBE F55				X	E					2-ETHOXYETHANOL									
VINEGAR	E	F	F	E	X	E	F	X		2-ETHOXYETHYL ACETATE									
VINEGAR ACID										2-ETHYL (BUTYRALDEHYDE)	E		X			X	X	E	E
VINYL ACETATE	G		X			X	X	E	E	2-ETHYL-1-HEXANOL	E	E	E	E	E	E	E	E	E
VINYL BENZENE	X		X			X	X	G	E	2-ETHYLHEXANOIC ACID									E
VINYL CHLORIDE	X	X	X	X	X	X	X	E	E	2-ETHYLHEXYL ACETATE									E
VINYL CYANIDE										2-OCTANONE									
VINYL ETHER	G		X			X	X	E	E	2,4-DI-SEC—PENTYLPHENOL									
VINYL STYRENE										3-BROMOPROPENE									
VINYL TOLUENE	X		X			X	X	E	E	3-CHLORO-2-METHYL PROPANE									
VINYL TRICHLORIDE	X		X			X	X	E	E	3-CHLOROPROPENE									
VITAL, 4300, 5310				X	X					3-COAL OIL									E
VM & NAPHTHA	X	F	X	X	E	X	X	X	E	4-HYDROXY-4-METHYL-2-PENTANONE									
WATER	E	G	E	E	E	E	F	E	E										
WATER, BOILING		E		E															
WATER, SODA																			
WEMCO C	X	G	X	X	E	X	X												
WHISKEY	E	E	E	E	E	E	E	X											