

Chemical Guide

The Chemical Guides in this section are offered as a general indication of the compatibility of the various materials used in Parker/Dayco 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 a 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, a hose tube may function satisfactorily if the hose is in a static condition, but may 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. As an example, the NBR used as the tube material for Parker/Dayco aircraft refueling hose may vary slightly in its makeup from the NBR used in the tube of Thoro-Flo Multi-Purpose hose. The reaction to a particular chemical may, therefore, be somewhat different.

When in doubt, a sample of the compound should always be tested with the particular chemical it is going to handle.

General Chemical Resistance of Parker Hose Compounds

See the following pages for specific applications.

Common Name	ASTM Designation D1418-64	Composition	General Properties	Hose Element
Buna-N or Nitrile	NBR	Nitrile-Butadiene	Excellent oil resistance. Good physical properties.	Tube/Cover
Cross Linked Polyethylene	XPE	Cross Linked Polyethylene	Excellent resistance to most solvents, oils and Tube Polyethylene chemicals. Do not confuse with chemical properties of standard polyethylene.	Tube
EPT or EPDM	EPDM	Ethylene-propylene-dieneterpolymer	Good general purpose polymer. Excellent heat ozone, and and weather resistance. Not oil resistant.	Tube/Cover
Flouorocarbon resin (Teflon)	TFE	Polytetra-flouroethylene	Excellent chemical and solvent resistance, inert to most materials. Smooth anti-adhesive surface – easily cleaned.	Tube
GRS or SBR	SBR	Styrene-Butadiene	Good physical properties, including abrasion resistance. Not oil resistant. Poor weathering and ozone resistance.	Tube/Cover
Hypalon	CSM	Chloro-sulfonated polyethylene	Excellent ozone, weathering and acid resistance. Good abrasion Good abrasion and heat resistance. Can be compounded for good oil resistance.	Tube/Cover
Natural	NR	Isoprene Rubber (Natural)	Excellent physical properties, including abrasion resistance. Not oil resistant.	Tube
Neoprene	CR	Chloroprene	Excellent weathering resistance. Flame retarding. Good oil resistance. Good physical properties.	Tube/Cover
Chlorinated polyethylene	CM	Chloropolyethylene	Good long term resistance to UV and weathering. Good oil and and chemical resistance. Excellent flame resistance. Good low temperature impact resistance.	Tube
Viton	FKM	Fluorocarbon rubber	Excellent high temperature resistance, particularly in air or oil. Very good chemical resistance.	Tube/Cover
Epichlorohydrin	ECO	Ethylene oxide Chloromethyl	Excellent oil and ozone resistance. Fair flame resistance and low permeability to gases. Good low temperature properties.	Tube/Cover
Butyl	IIR	Isobutene-isoprene	Very good weathering resistance, low permeability to air. Good physical properties. Poor resistance to petroleum based fluids.	Tube/Cover
Ultra-High Molecular Weight Polyethylene	UHMW	Ultra-High Molecular Weight Polyethylene	Excellent chemical resistance.	Tube

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WARNING The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide **ONLY**, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc. that may be encountered in actual use. All critical applications should be tested. Contact Parker for recommendation and assistance. **Note:** All data based on 70°F unless otherwise noted.

KEY:

- E = Excellent
- G = Good
- C = Conditional
- Blank = No Data
- X = Not Satisfactory

Trade Name	Description	ASTM Codes	Parker Codes	Trade Name	Description	ASTM Codes	Parker Codes
Butyl	Isobutylene-Isoprene	IIR	BU	Nylon	Nylon Polymer	—	NL
CPE	Chlorinated Polyethylene	CM	CP	SBR	Styrene-Butadiene	SBR	SB
EPDM	Ethylene Propylene-Diene	EPDM	EP	Santoprene	Ethylene-Propylene-Diene	EPDM	SP
Hypalon	Chlorosulfonyl Polyethylene	CSM	CS	Teflon	Fluorocarbon Resin	TFE	TF
Hytrell	Thermoplastic Polyester	—	HY	UHMW	Ultra-High Molecular Weight Polyethylene	—	UHMW
Natural	Natural Rubber	NR	NR	Urethane	Urethane	AU	AU
Neoprene	Polychloropren	CR	CR	Viton	Floroelastomer	FKM	VI
Nitrile	Acrylonitrile	NBR	NI	XLPE	Cross-Linked Polyethylene	XPE	XP

Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrell	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
1 UNDECANOL	E			E		E	X	E	E	X		E			G	E
1,4-DIOXANE	G		G	X		X	X	X	E	X		E		X	X	E
1-AMINO-2-PROPANOL	E			C		G	X	G				E			X	X
1-AMINOBUTANE	X		C	C		X	X	C		X		E		X	X	X
1-AMINOPENTANE	G		X	G		G	X	C				E			X	X
1-BROMO-2 METHYL PROPANE	X			X		X	X	X				E			G	
1-BROMO-3 METHYL BUTANE	X		X	X		X	X	X				E			G	
1-BROMOBUTANE	X			X		X	X	X				E			G	
1-CHLORO-2-METHYL PROPANE	X			X		X	X	X				E			G	
1-CHLORO-3-METHYL BUTANE	C		X	X		X	X	X	E			E			E	
1-DECANOL	C			E		C	X	E				E			G	E
1-HENDACONAL		E														
2 (2AMINOETHYLAMINO) ETHANOL	E			G		G		G								
2 (2ETHOXYETHOXY) ETHANOL	E		G	G		C	C	G	E	G		E		X	G	
2 (2ETHOXYETHOXY) ETHYL ACETATE	G		X	G		X	X	C		X		E		X	G	
2,4-DI-SEC-PENTYLPHENOL		E														
2-AMINOETHANOL	E		G	G		G	G	G				E		C	X	
2-CHLORO-1-HYDROXY-BENZENE		C														
2-CHLOROPHENOL	G	G	X	C	X	X	X	X	X	X	X	E		X	E	G
2-CHLOROPROPANE	X		X	X		X	X	X	X	X		E		X	E	E
2-ETHOXYETHANOL	G		G	C		C	C	G		X		E		X	C	
2-ETHOXYETHYL ACETATE	G	X	G	X	X	X	X	X	G	X		E		X	X	
2-ETHYL (BUTYRALDEHYDE)	G			X		X		X				E		X	X	
2-ETHYL-1-HEXANOL	E		E	E		E	E	E		E		E		X	E	E
2-ETHYLHEXANOIC ACID	C			G		C		C				E				
2-ETHYLHEXYL ACETATE	E			E		X		X				E			X	
2-OCTANONE	G			X		X		X				E			X	
3-BROMOPROPENE	X			X		X	X	X				E			X	G
3-CHLORO-2-METHYL PROPANE		G														
3-CHLOROPROPENE	C		X	X		X	X	G		E		E			G	
4-HYDROXY-4-METHYL-2-PENTANONE	E		E	C	C	C	C	X	G	C		E		X	X	
ACETALDEHYDE	E		E	C	G	C	X	X	E	X	E	E	G	X	X	E
ACETIC ACID, GLACIAL	G	E	G	C	E	X	X	G	X	C	G	E	E	X	X	E
ACETIC ACID-10%	E	E	E	E	X	B	B	X	E	F	B	E	E	X	E	E
ACETIC ACID-50%	E	E	E	E	C	X	C	C	C	X		G	E	X	G	G
ACETIC ANHYDRIDE	G	E	G	E	C	C	G	X	X	X	G	E	G	X	X	E
ACETIC OXIDE	G		B	E		X					B	E		G	X	E
ACETONE	E	G	E	X	C	C	X	X	E	C		E	E	X	X	E
ACETONE CYANOHYDRIN	E			C		C	B	X			E	E	G	X	X	E
ACETONITRILE	E		E	G		B	E	C			E	E				



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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrell	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
ACETOPHENONE	G		E	X		X	X	X		X	E	F	X	X	X	X
ACETYL ACETONE	E	G	E	X		X	X	X		X	E	E	E	X	X	E
ACETYL CHLORIDE	X	E	C		X		X	X	X	X	C	E	G	X	X	G
ACETYL OXIDE	E		G	X		C		X			C	E	E	X	X	E
ACETYLENE	E	G	E	C	G	G	E	E	E	C	E	E	E	G		E
ACETYLENE DICHLORIDE	C		C	X		X	X	X				E			G	
ACETYLENE TETRACHLORIDE	X		X	X		X	X	X				E			E	
ACROLEIN	E		E	G		G	C	C		C		E	X	X		E
ACRYLIC ACID		E														
ACRYLONITRILE	X	E	X	C		C			E	C		E	C	X		C
ADIPIC ACID			E			E	E	E			E	E		E	E	
AIR, +300F	G		G	G		X	G	G		X		E	X	C		
ALK-TRI	X			X		X		X				E			E	E
ALLYL ALCOHOL	E		E	E		E	E	E				E	E		G	G
ALLYL BROMIDE	X			X		X		X				E	E		G	E
ALLYL CHLORIDE		G		X		X		G		G		E	G		G	G
ALUM	E	E	E	E		E	E	E	G			E	E		E	E
ALUMINUM ACETATE (AQ)	G	E	E			E	G	G		X		E	E	X	X	E
ALUMINUM CHLORIDE (AQ)-40%	G	C				E	E	E	X			E	E		E	E
ALUMINUM FLUORIDE	E		E	E		E	E	E	G	E		E	E	C	E	E
ALUMINUM FORMATE	G			X		X		E		G		E	E		E	
ALUMINUM HYDROXIDE	E		E	G		E	E	E	G	G		E	E	G	C	E
ALUMINUM NITRATE (AQ)	E	E	E	E		E	E	E		E		E	E	C	E	E
ALUMINUM SULFATE (AQ)	E	E	E	E	G	E	E	E	E	E	E	E	E	G	E	E
ALUMS-NH3-CR-K	E		E	E		E	E	E	C	E		E	E	G	E	E
AMINES-MIXED	G		G	X	G	G		X		G				X	X	
AMINO XYLENE	G		C												C	
AMINO BENZENE		G							C			E				
AMINODIMETHYLBENZENE	G	C														
AMINOETHANE	G		E	C		C	X	X		C		E		X	X	
AMMONIUM CARBONATE (AQ)	E		E	G		E	E	G	G	E		E	E	E	E	E
AMMONIUM CHLORIDE (AQ)	E	G	E	G	E	E	E	G		E	E	E	E	E	E	E
AMMONIUM HYDROXIDE	E	E	E	E		E	E	E			E	E	E	X	E	E
AMMONIUM NITRATE (AQ)	E	G	E	E	G	E	E	E	G	E		E	E	E	E	E
AMMONIUM PHOSPHATE, DIBASIC	E	E	E	E		E	E	E	E	E		E	E	E	E	E
AMMONIUM SULPHATE (AQ)	E	E	E	E	G	E	E	E	G	G		E	E	E	E	E
AMMONIUM SULPHITE	E		E	E		E	E	E		E		E	E	E	E	E
AMMONIUM THIOSULPHATE	E		E	E		E	E	E		E		E	E	E	E	E
AMYL ACETATE	G		E	X	C	X	X	X	G	X	X	E	E	X	X	E
AMYL ACETONE	G			X		X		X				E	E			E
AMYL ALCOHOL	E	E	E	E	E	E	E	G	E	E	E	E	E	X	E	E
AMYL AMINE	G			C		C		C				E	E			
AMYL BROMIDE												E	E			
AMYL CHLORIDE	X	C	X	X		X	X		E	X		E	E	C	G	E
AMYL ETHER				C				C				E	E			G
ANETHOL	X	X		X		X			G			E	E			G
ANILINE	E	G		X	X	X	X	X	C	X		E	E	X	C	E
ANILINE DYES	G		G	G		G	C	X	X	G		E	E	X	C	E
ANILINE OIL	G	G	C	C								E	E	X	C	E
ANIMAL FATS	C		E	C	G		G	E	E	X	E	E	E	E		E
ANTIMONY CHLORIDES	E		E	G			X	G				E				E
AQUA REGIA	X		G	X		X	X	X		X		E	X	X	E	X
ARGON	G		E	X	E	X	X	E	E	X		E	E	E	E	E
ARSENIC ACID	E	E	E	E		G	E	E	E	E		E	E	C	E	E
ASPHALT	X		X	X	C	X	X	X	E	X	E	E	X	G	E	X
ASTM FUEL A	X	E	X	G	E	X	G	E	E	X	X	E	G	G	E	G
ASTM FUEL B	X	G	X	X		X	X	X	E	X	X	E	G	G	E	G
ASTM FUEL C	X	C	X	X		E	X	X	E	X	X	E	G	G	E	G
ASTM OIL NO. 2	X	E	X	X	E	X	G	E	E	X	X	E	E	E	E	E
ASTM OIL NO. 3	X		X	G	E	X	C	E	E	X	X	E	E	E	E	E
ASTM OIL NO. 4	X		X	X		X	X	G		X		E	E	X	E	E
ASTM OIL NO.1	X	E	X	G	E	X	E	E	E	X	X	E	E	E	E	E
AUTOMATIC TRANSMISSION FLUID	X		X	C	E	X	G	E	G	X	X	E	E	E	E	E
BANANA OIL			G	C				X		X		E	E	E	E	E
BARIUM CHLORIDE (AQ)	E	G	E	E	G	E	E	E	G	E		E	E	E	E	E
BARIUM HYDROXIDE (AQ)	E	G	E	E	G	E	E	E	G	E		E	E	E	E	E
BARIUM SULFIDE (AQ)	E		E	E		E	E	E		E		E	E	E	E	E
BEER	E		E	E		E	E	E				E	E	E	E	E
BEET SUGAR LIQUORS	E	G	E	E	G	E	G	E	E	E		E	E	X	E	E
BENZAL CHLORIDE	G											E	E			E

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
BENZALDEHYDE	G		E	X	G	X	X	X	E	X	X	E	E	X	X	E
BENZENE	X	C	X	X	C	X	X	X	G	X	X	E	E	X	X	E
BENZENE CARBOXYLIC ACID	E			X				X				E	E			
BENZINE	X		X	X		X	C	X	G	X		E		C	E	E
BENZOIC ACID	X					X	E	X	E	X		E	E			E
BENZOL		C	X		C			X	G			E	G		G	
BENZOTRICHLORIDE												E	G			G
BENZYL ACETATE	E			G		X		X				E	E		X	E
BENZYL ALCOHOL	G		G	G	C	X	X	X	C	X	X	E	E		E	E
BENZYL CHLORIDE	X	X	X	X		X	X	X		X		E	E		E	E
BENZYL ETHER	G		C	X		X	X	X		X		E		G	X	
BIS (2-CLOROETHYL) ETHER	X			X		X	X	X		X		E				
BLACK SULFATE LIQUOR	G	C	G	G	G	G	G	G	C	G		E	E	X	E	
BLEACH (2-15%)	G		E	E	E	X	X	X	C	X		E	E	X	E	G
BORAX SOLUTION	E	G	E	E	E	G	E	G	G	G		E	E	E		E
BORIC ACID	E		E	E	E	E	E	E	G	E	E	E	E	E	E	E
BRAKE FLUID (HD-557) 12 DAYS	G	E	E	G			G	C	E	E		E	E		X	E
BRINE	E	G	E	E	G	E	G	E	G			E	E		E	E
BROMACIL			E													
BROMOBENZENE	X	X	X	X		X	X	X		X		E	C	X	E	C
BROMOCHLOROMETHANE	X	X	G	X		X	X	X				E			C	
BROMOETHANE	X		X	X		C	X	G		X		E		X	E	
BROMOTOLUENE	X	X		X		X				X		E			G	F
BUGDIOXANE																E
BUNKER OIL	X		X	X		X	X	E		X		E	E	G	E	E
BUTADIENE	X		X	X		X	X	X		X		E	E	X	G	E
BUTANE	X		X	X	E	X	C	E	E	X		E	E	X	E	E
BUTANOIC ACID			G	C								E	E		G	
BUTANOL (BUTYL ALCOHOL)	G	G	G	E	G	E	E	E	G	E	G	E	E	X	E	E
BUTANONE	E	G	E	X	E			X	G		X	G	E	X		E
BUTOXYETHANOL	E		E	X		X	X	C				E		E		
BUTYL ACETATE	X	C	X	X	C	X	X	X	G	X		X	E	X	X	E
BUTYL ACRYLATE	X		X	X		X	X	X				E	E			
BUTYL ALCOHOL	G	G	G	E	G	E	E	E	G	E	G	E	E		E	E
BUTYL ALDEHYDE	G		G	C			C				G	E	E	C	X	E
BUTYL BENZYL PHTHALATE	E			X		X				X		E	E		C	E
BUTYL CARBITOL	E		E	X		X	C	X		X		E	E		C	E
BUTYL CELLOSOLVE	E		G	X		X	X	C		X	E	E	E		X	E
BUTYL CHLORIDE	C		X	X		X						E	E	C	E	E
BUTYL ETHER	X		X	X		X	X	X		X		E	E		X	E
BUTYL ETHER ACETALDEHYDE	G			X		X			X			E	E		X	E
BUTYL ETHYL ETHER	X			X		X		G				E	E			E
BUTYL OLEATE	G		G	X		X	X	X		X		E	E		E	E
BUTYL PHTHALATE	G		E	X		X				X		E	E		C	E
BUTYL STEARATE	X		X	X		X	X	G		X		E	E	G	E	E
BUTYLENE	X		X	X	G	X	C	E	G	X		E		C	E	E
BUTYRALDEHYDE	G		C			X	X	X		X		E	E	X	X	E
BUTYRIC ACID	G		G	C		X	X	X		X		E	E		G	
BUTYRIC ANHYDRIDE	C			G		C		C				E	E			E
CADMIUM ACETATE	E			E		X						E	E			E
CALCIUM ACETATE	E			C		E	G	G		X		E	E	X	X	E
CALCIUM ALUMINATE	E			E		E		E				E	E		E	E
CALCIUM BICHROMATE	E			C								E	E		E	G
CALCIUM BISULFIDE			X		G		C	E	G	G		E	E	C	E	
CALCIUM CHLORIDE	E	G	E	E	E	E	E	E	E	E		E	E	E	E	E
CALCIUM HYDROXIDE	E	G	E	G	E	E	E	E	E	E		E	E	E	E	E
CALCIUM HYPOCHLORITE	E	G	E	E	C	X	C	X	X	X		E	C	X	E	E
CALCIUM NITRATE	E		E	E		E	E	E	E	E		E	E	X	E	E
CALCIUM SULFIDE	E	X	E	E		X	E	E	E	X		E	E	E	E	E
CAPRILIC ACID	C			G		C		C				E	E			E
CARBAMIDE	G			E		E	G	G				E	E			
CARBITOL	E		G	G		X	C	G	E	G	X	E	E	X	G	E
CARBOLIC ACID (PHENOL)	G	G	X	X		X	X	X	X	X	X	E	E	X	E	E
CARBON DIOXIDE	G		G	G		G	G	E	E	G		E	E	E	G	E
CARBON DISULFIDE	X		X	X		X	X	X		X		E	E	X	X	C
CARBON MONOXIDE	E	G	E	E	E	C	E	E	E	G	E	E	E	G	E	E
CARBON TETRACHLORIDE	X	C	X	X	X	X	X	C	X	X	X	E	E	X	E	E
CARBONIC ACID	E	X	E	X		E	G	E	E	G	X	E	E	E	G	E
CASTOR OIL	G	G	G	E	C	E	E	E	G	E	C	E	E	G	E	E
CAUSTIC SODA (SEE SODIUM HYDROXIDE)	E		E		C		E	E	G		E	E	E	G	E	E

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CELLOSOLVE ACETATE	G		G	X		X	X	X	G	X		E	E	X	X	E
CELLUGUARD	E		E	X		E	E	E	G	E		E	E	E	E	
CETYLIC ACID	G	G	G	C	E	E	E	E	C	B	E	E		E	E	
CHINA WOOD OIL (TUNG OIL)	X	C	X	C	G	X	E	E	G	X		E		C	E	
CHLORDANE	X		X	C	C	X	C	G	G	X		E		C	E	
CHLORINATED SOLVENTS	X	X	X	X		X	X	X	X	X		E		X	E	G
CHLORO-2-PROPANONE	X		E	X		X	X	X	X	X		E		X	X	
CHLOROACETIC ACID	X		G	G	X	X	X	X	X	X	X	E	E	X	X	
CHLOROACETONE	G		E	X		X	C	X	X	X		E	E	X	X	
CHLORO BENZENE, MONO, DI, TRI	X		X	X	X	X	X	X	E	X	X	E	E	X	E	A
CHLOROBUTANE	C			X		X		X				E	G	C	E	G
CHLOROETHYLBENZENE	X	X	X	X		X		X		X		E	E	X	E	E
CHLOROFORM	X	X	X	X	X	X	X	X	X	X	X	E	E	E	G	E
CHLOROPENTANE	C			X		X		X		X		E	E	E	E	X
CHLOROSULFONIC ACID	X	X	X	X	X	X	X	X	X	X	X	E	E	X	X	X
CHLOROTOLUENE	X		X	X		X	X	X		X		E	G	X	E	G
CHLORO X	G		G	G		X	G	G		X		E	G	X	E	G
CHROME PLATING SOLUTIONS	X		X	X		X	X	X		X		E	E	X	E	
CHROMIC ACID	G	X	X	X	X	X	X	X	X	X	X	E	E	X	E	
CHROMIUM TRIOXIDE	G	X	X	X	X	X	X	X	X	X	X	E	E	X	E	
CINNAMENE	X		X	X	X	X	X	X		X		E		C	G	E
CIS-9-OCTADECENOIC ACID	X	X	C	G	E	X	C	E	E	X		E	E	E	E	E
CITRIC ACID	E	X	E	E	G	E	E	E	G	E	E	E	E	E	C	E
COAL OIL	X		X	C		X	G	E	E		X	E	E	C	E	E
COAL TAR	X		X	X	X	X	C	E	E	X	X	E	E	C	E	E
COAL TAR NAPHTHA	X		X	X		X		X		X		E	E	X	E	E
COCONUT OIL	G		G	C		X	C	X		X		E	E	C	E	E
COKE OVEN GAS	X		X	X		X	X	X	E	X		E		X	E	E
COOLANOL (MONSANTO)	X		X	G	X	X	G	E		X		E		X	E	E
COPPER CHLORIDE	E	X	E	G	E	G	G	E	C	E		E	E	G	E	E
COPPER CYANIDE	E		E	G		E	E	E	G	E		E	E	E	E	E
COPPER HYDRATE	E		G	G		C	C	G				E	E		C	E
COPPER HYDROXIDE	E		G	G		C	C	E		G		E	E		C	E
COPPER SULFATE	E	X	E	E	E	G	E	E	G	G		E	E	G	E	E
CORN OIL	G		X	G	E	X	C	E	G	X	E	E	E	E	E	E
COTTONSEED OIL	C	G	C	G	E	X	C	G	E	X		E	E	E	E	E
CREOSOTE	X		X	X		X	X	X	X	X		E	E	E	E	E
CRESOLS	X		X	X	X	X	X	X	X	X	X	E	E	X	E	E
CRESYLIC ACID	X		X	X		X	X	X	X	X		E	E	X	E	E
CROTONALDEHYDE	E		E	X		X	X	X		C		E	E	X	X	E
CRUDE OIL			X				X	G	E	X		E	E	G	E	E
CUMENE	X		X	X		X	X	X		X		E	E	X	E	E
CUPRIC CARBONATE	E			E		C	E	E				E	E		E	E
CUPRIC HYDROXIDE	E			E		C		E				E	E		C	E
CUPRIC NITRATE	E		E	E		G	E	E				E	E	E	E	E
CUPRIC SULFATE	E		E	E		G	E	E		E		E	E	X	E	E
CUTTING OIL	X		X	G		X	G	E		X		E	E	E	E	E
CYCLOHEXANE	X		X	X	E	X	X	G	G	X	X	E	E	E	E	G
CYCLOHEXANOL	X		X	B		X	G	X	G	X	X	E	E	E	E	E
CYCLOHEXANONE	X		C	X		X	X	X	G	X	X	E	E	X	X	E
CYCLOPENTANE	X		X	X		X	E	G				E	E		E	E
CYCLOPENTANOL	X			X		X		G		X		E	E		G	E
CYCLOPENTANONE	X			X		X		X		X		E	E		X	E
CYCLOPENTYL ALCOHOL	X			X		X		G		X		E	E		X	E
DDT IN DEIONIZED KEROSENE	X		X	X		X	C	E	E	X		E	E	G	E	E
DECAHYDRONAPHTHALENE	X		X	X		X	X	X	G	X	X	E		X	E	
DECAHYDROXYNAPHTHALENE		C														
DECALIN	X		X	X		X	X	X	G	X	X	E	X	X	E	E
DECYL ALCOHOL	X			E		X	X	E				E	E	E	G	E
DECYL ALDEHYDE	C			X		X		X				E	E	E	X	E
DECYL BUTYL PHTHALATE	E			X		X		X				E	E		C	E
DECYL CARBINOL	E			E		E		E				E	E	E	G	E
"DETERGENT, WATER SOLUTION"	E		E		G	E	G	E		G		E	E	E	E	E
DEVELOPING FLUID (PHOTO)	G		G	E	X	E	E	E		G		E	E	E	E	E
DEXTRON	X		X	X		X	E	E		X		E	E	G	E	E
DI(2ETHYLHEXYL) ADIPATE	E		G	X		X	X	X		X		E	E	X	C	
DI(2ETHYLHEXYL) PHTHALATE	G		E	X		X	X	X	E	X		E	E	X	G	
DIACETONE ALCOHOL	E		E	X		X	X	X		X		E	E	X	X	
DIACETYLMETHANE	E		E	X		X	X	X		X		E	E	X	X	
DIALLYLPHTHALATE	G											E	E	X	X	C

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
DIAMMONIUM PHOSPHATE	E	E	E	E		E	E	E		E		E			E	E
DIAMYL NAPHTHALENE	E			X		X		X				E			E	E
DIAMYL PHENOL	X			X		X		X		X		E			E	E
DIAMYLAMINE	E		E	C		G		C		X		E		X	X	E
DIAMYLENE	X			X		X	X	C	G			E			E	E
DIBENZYL ETHER	G		C	X		X	X	X		X		E	E	G	X	E
DIBROMOBENZENE	X			X		X		X				E	G		E	E
DIBROMOMETHANE	X		C	X		X	X	X				E			G	E
DIBUTYL ETHER	X		X	X		X	X	X		X		E		X	X	E
DIBUTYL PHTHALATE	C		E	X	G	X	X	X	E	X		E		X	C	E
DIBUTYL SEBACATE	G		G	X	G	X	X	X		X		E	E	X	E	E
DIBUTYLAMINE	X		X	X		X	X	X		X		E	E	X	X	E
DICALCIUM PHOSPHATE	E			E		E		E				E			E	E
DICHLORO DIFLUORO METHANE	X	C	C	E	E	X		C	G	E	X	E		E	G	
DICHLORO ETHYLENE	C		X	X	X	X	X	C	C		X	E		C	G	
DICHLOROACETIC ACID	C			X		G						E	E	C	X	E
DICHLOROBUTANE	X		C	X		X	X	G		X		E	E	X	E	G
DICHLOROETHANE	X	X	X	X	X	X	X	X	C	X	X	E		X	G	E
DICHLOROETHYL ETHER	C			X		X		X		X		E			E	E
DICHLOROHEXANE	X			X		X		X				E	E		E	E
DICHLOROMETHANE	X		C	X	X	X	G	X	C	X	X	E	E		G	E
DICHLOROPENTANE	X			X		X	X	X		X		E	E	X	E	E
DICHLOROPROPANE	X			X		X	X	X				E	E		E	E
DICHLOROPROPENE												E	E		E	E
DICHLOROTOLUENE		X										E	E		E	E
DIESEL OIL	X	E	E	C	G	X	C	E	E	X	X	E	E	C	E	C
DIETHANOLAMINE	E		E	C	X	G			G	X		E	E			
DIETHYL ETHER	X		X	X	C	X	X	X	E	X		E		E	X	
DIETHYL KETONE	G		E	X		X	X	X				E			X	E
DIETHYL OXALATE	X		X	X		X	X	X				E				E
DIETHYL PHTHALATE	E			X		X						E	E		C	E
DIETHYL SEBACATE	G		G	C	E	X	X	X		X	E	E		X	G	
DIETHYL SULFATE	G		E	X		X	E	X				E			X	
DIETHYL TRIAMINE	E			C		G		G				E				
DIETHYLAMINE	G		G	C		G	G	C		G		E	E	C	X	C
DIETHYLBENZENE	X		X	X		X	X	X		X		E	E	X	E	E
DIETHYLENE GLYCOL	E		E	E	E	E	E	E				E	E	X	E	C
DIETHYLENE OXIDE	X		E	E								E	E			
DIETHYLENE TRIAMINE	E		E	C		G				X	E	E	E	X		
DIHYDROXY DIETHYL ETHER	E		E	E		E	E	E				E	E		E	
DIHYDROXY SUCCINIC ACID	G		G	E		E	C	G				E	E	E	E	
DIISOBUTYL KETONE	G		E	X		X	X	X		X		E	E	X	X	E
DIISOBUTYLENE	X		X	X		X	C	E		X		E	E	X	E	E
DIISODECTYL PHTHALATE	E		E	X		X				X		E	E		C	E
DIISODECYL PHTHALATE	E		E	X		X	X	X				E	E		C	E
DIISOOCTYL ADIPATE	E			X		X		X		X		E	E		C	E
DIISOOCTYL PHTHALATE	E		G	X		X						E	E		C	E
DIISOPROPANOLAMINE	E			C		G		G				E	E			
DIISOPROPYL ETHER	X		X	C		X	X	G		X		E		G	X	E
DIISOPROPYL KETONE	E		E	X		X	X	X		X		E		X	X	E
DIMETHYL PHTHALATE	G		G	X	E	X	X	X		X	G	E	E	X	E	E
DIMETHYL SULFATE	G			X				X				E	E		X	
DIMETHYL SULFIDE	C					X		X				E	E			
DIMETHYLAMINE	G		X	X			X	X				E	E		X	E
DIMETHYLANILINE	X	C	G	X			X	X		X		E	G	X	X	G
DIMETHYLBENZENE	X	C	X	X	X		X	X	G	X	X	X	E	X	E	
DIMETHYLBUTANE		G														
DIMETHYLCARBINOL	E		G	E		E	E	G				E	E		E	
DIMETHYLBUTANOL	E		G	X	C	X	X	X	E	C	E	E	E	X	X	
DIMETHYLBUTANONE	E		G	X		X	X	X				E	E		C	
DIOCTYL ADIPATE	E		E	X		X	X	X				E	E		E	
DIOCTYL PHTHALATE	G		G	X	E	X	X	X	E	X		E	E	X	G	E
DIOXALANES	X		G	X		X	X	X		X		E	E	X	X	E
DIOXANE	X		G	X		X	X	X	E	X		E	E	X	X	E
DIPENTENE	X		X	X		X	X	X		X		E	E	X	X	E
DIPENTYLAMINE	E		E	C		G		G		X		E	E	X	X	
DI-P-MENTHA-1,8-DIENE	X		X	X		X	X	G		X		E		X	E	
DIPROPYLAMINE	E			C		G		E				E			E	
DIPROPYLENE GLYCOL	E			E		E		E				E			E	
DISODIUM PHOSPHATE	E		E	E		E		E				E		E	E	E
DIVINYLBENZENE	X			X		X		E		X		E		E	E	E

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
DOWELL INHIBITOR DOWFAX 2A1 SOLVENT DOWFAX 2A1 TA DOWFAX 6A1 SOLVENT DOWFAX 6A1 TA		G E E E E														
"DOWTHERM, A AND E" DRY CLEANING FLUIDS DUCGKIRIOEBAANE DURO AW16, 31 DURO FR-HD	X X X	X	X X	X X	G	X	X X	X C	X	X X		C E	E	X X	E E	E
EHTYL BUTYL ACETATE EHTYL DICHLORIDE EHTYLENE DIBROMIDE ETHANOIC ACID ETHANOL (GRAIN ALCOHOL)	E C X G E		C C E E	G X X C E		X X X X E	X X X G E	X X X C E		X X G E	C E	E E E E	E	X X X X	X G G X C	E G G
ETHANOLAMINE ETHERS ETHYL ACETATE ETHYL ACETOACETATE ETHYL ACETONE	G X G G G	G G	G C E G G	X X X X	X C	G X X X X	G X X X X	G X X X X		X X X C X		E E E E	E	C X X X	X X X X	E C E
ETHYL ACRYLATE ETHYL ALCOHOL ETHYL ALDEHYDE ETHYL ALUMINUM DICHLORIDE ETHYL BENZENE	G E G X X	G	G E E	X C X X	E	X E X X X	X E X X X	X X X X X		X E		E E E E	E E E	X X C	X E X G E	G E E E
ETHYL BROMIDE ETHYL BUTANOL ETHYL BUTYL KETONE ETHYL CELLULOSE ETHYL CHLORIDE	X E G G E		X E G E	X E X G C		C E X G C	X G G X	G E X E		X G G		E E E E	E E G	X G C	E G X E	E E E G
ETHYL DIISOBUTYLTHIO-CARBAMATE ETHYL ETHER ETHYL FORMATE ETHYL IODIDE ETHYL OXALATE	X G C X	G	X G C C	X G X X		E X X X C	X G X X X	X X X X X	E	X X X		E E E E	E E E E	C	X E G E	E E E E
ETHYL PHTHALATE ETHYL SILICATE ETHYLAMINE ETHYLENE CHLOROXYDRIN ETHYLENE DIAMINE	E E G G E		E E G E	X G C C G		X G C C G	E X G E	X X X X		G C G		E E E E	E E E E	X X X	E X X	E E E
ETHYLENE DICHLORIDE ETHYLENE G MONOETHYL E ACETATE ETHYLENE G. MONOBUTYL ETHER ETHYLENE G. MONOHEXYL ETHER ETHYLENE G. MONOMETHYL ETHER	C E E E	X	X E E	C X C	X	X C X	X X C	X C C	C	X X	X	E E E	G	X X X	G E X X	G E E
ETHYLENE GLYCOL ETHYLENE OXIDE FATTY ACIDS FERRIC BROMIDE FERRIC CHLORIDE	E X X E E	G X	E C X E	E X C E	E G	E X E	E X E	E E E	E G	E X E	E X	E E E	E E E	E E E	E E E	E E
FERRIC NITRATE FERRIC SULFATE FERROUS ACETATE FERROUS CHLORIDE FERROUS SULFATE	E E E G E	X	E E E E	E E E E	E E	E E X E E	E E E G E	E E X E E	E E	E E E		E E E E	E E E	E G E	E E E	E E E
FLOUROSILIC ACID FLUOBORIC ACID FLUORINE FORMALDEHYDE FORMALIN	E G X E E		E E E E	E X G G		E E X	E X G G	E X C C		G E C C	C E	E E E E	C C X E	X X X	C E E E	G C X E
FORMIC ACID FREON 113 FREON 12 FREON 22 FREON 502	E X C X E	X C C	E C E E	E E E E	C E X	C C C E	E E E E	C E X E G	X X G G E	E E E E		E E E E	E	X G E X	X G G C G	C
FUEL A (ASTM) FUEL B (ASTM) FUEL OIL FURALDEHYDE FURAN	X X X E X	E G E E	X X X G	G X C C	E E G	X X X X	G X G C	E X E X	E E G C	X X X X	X X	E E E E	G G E	G G C X	E E E X	G G E

Industrial Hose Chemical Resistance Guide

Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
FURFURAL	E	E	G	C	G	X	C	X	C	X	E	E	E	X	X	E
FURFURAN	X		X	X		X	X	X	X	X		E	E	X	X	
FURFURYL ALCOHOL	G		G	X	G	X	X	X	G	X	E	E	E	X	C	E
GALLIC ACID	G		G	G	X	E	G	G	G	G		E	E	X	E	C
GALLOTANNIC ACID	G		E	E		E	E	E				E	E	E	E	
GAS, 100 OCTANE	X		X	X	E	X	C	E	G	X	X	E	C	C	E	
GAS, COAL			E		G		E	X	E					G	E	
GASOLINE	X	E	X	X	E	X	X	E	G	X		E	G	C	G	E
GLACIAL ACRYLIC ACID																
GLUCONIC ACID	C			G		X		C				E	E			
GLUCOSE	E		E	E	G	E	G	E	G	E		E	E	C	E	E
GLYCERINE	E	E	E	E	E	E	E	E	G	E	X	E	A	C	E	C
GLYCEROL	E	E	E	E	E	E	E	E	G	E	X	E		C	E	
GLYCOGENIC ACID	C			G	X	X	C	C	G			E		C	E	
GLYCOLS	E		E	E	C	E	E	E	G	E	G	E	E	X	E	E
GLYCONIC ACID	C			G		X		C				E	E			
GLYCYL ALCOHOL	E	E	E	E	E	E	E	E	G	E	X	E	E	C	E	
GREASE, PETROLEUM BASE	X	E	X	X	E	X	C	G	E	X	X	E	E	E	E	G
GREEN SULFATE LIQUOR	E		E	G	X	G	E	G	X	G		E	E	E	E	E
HALON 1211																
HELIUM	E		E	E		E	E	E	E	E		E		E	E	
HEPTALDEHYDE	X			X		X		E				E			X	
HEPTANAL	X			X		X		E				E			X	E
HEPTANE	X	E	X	G	G	X	G	E	E	X		E	E	G	E	G
HEPTANE CARBOXYLIC ACID	C			G		X		C				E				
HEPTANOIC ACID		E														
HEPTANONE		C														
HEXADECANOIC ACID	G	G	G	C	E	E	G	E	C	B	E	E	E	E	E	E
HEXALDEHYDE	G		E	C		X	E	X		X		E	E	G	X	E
HEXANE	X		X	E	E	X	E	E	E	X	E	E	E	G	E	G
HEXANOL	C		G	G		E	G	E		E		E	E	X	E	E
HEXENE	X		X	G		X	G	G		X		E	E	E	G	E
HEXYL ALCOHOL	C		G	G		E	G	G		E		E	E	X	E	E
HEXYL METHYL KETONE	G			X		X		X				E	E	X	X	E
HEXYLAMINE	G		C	C		C		C				E	E	X	X	E
HEXYLENE GLYCOL	E		C	E		E	E	E				E			E	
HISTOWAX		E														
HYDRAULIC OIL, PETROLEUM		E	X	G	E	X	G	E	E		X	E	E		E	E
HYDRAZINE	E	X	E	E	X	X	X	X	X	G		E	E		E	E
HYDROBROMIC ACID	E		E	E		E	X	G	X	X		E	E	G	X	C
HYDROCHLORIC ACID	E	X	C	C	C	C	C	C	C	X	E	E	E	C	G	E
HYDROCYANIC ACID	G	X	E	E	X	G	G	G	X	G	E	E	E	X	E	
HYDROFLUORIC ACID	G	X	C	E	X	C	C	C	X	C	X	E	E	X	E	C
HYDROFLUOSILICIC ACID	E	X	E	E	G	E	G	G	X	G		E	E	C	E	C
HYDROGEN CHLORIDE ANHYDROUS																
HYDROGEN DIOXIDE (10%)	C		G	G		G	X	C				E	E		E	E
HYDROGEN GAS	E	C	E	E	E	G	E	E	E	G		E	E	E	E	E
HYDROGEN PEROXIDE 10%	G		G	E	X	G	X	C	G	C		E	E	G	E	E
HYDROGEN PEROXIDE OVER 10%	X	X	C	G	X	X	X	X	X	X		E	E	C	E	C
HYDROGEN SULFIDE (WET)	E	X	E	E	E	X	E	C	X	X		E	E	C	C	E
HYDROXY BENZENE	G		C	C		X	X	X				E		C	E	
HYDROXYISOBUTYRONITRILE		E														
HYDROXYTOLUENE		E														
HYVAR XL			E													
IMINODI-2-PROPANOL		E														
IMINODIETHANOL																
IODINE	G		G	G		X	X	G	E	G		E	G	X	E	C
IODINE PENTAFLUORIDE	X		X	X		X	X	X		X		E		X	X	C
IODOFORM			X			X	X	E		X						
ISOBUTANAL		G														
ISOBUTYLAMINE	E			C		C		X				E			X	
ISOBUTYLBROMIDE	X			X		X		X				E			G	
ISOBUTYL CARBINOL	E		E	E		E		E				E			E	
ISOCYANATES					G				G					C	E	
ISOCTANE	X	E	X	G	E	X	G	E	E	X	X	E	E	G	E	E
ISOPROPYL ACETATE	G		G	X	C	X	X	X	G	X		E	E	X	X	E
ISOPROPYL ALCOHOL	E		E	E	E	E	G	E	E	E		E	E	X	E	E
ISOPROPYL ETHER	X		X	C		X	X	X		X		E	E	G	X	E
JET FUELS	X		X	X		X	X	E	C	X	X	E	E	C	E	E
JP-4 OIL	X		X	X	E	X	X	E	C	X	X	E	E	C	E	E

Industrial Hose Chemical Resistance Guide

Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
KEROSENE	X	G	X	X	E	X	C	E	E	X	X	E	E	G	E	E
KETONES	G	C	E	C	X	C	X	X	E	G	X	E	E	X	X	E
LACQUER SOLVENTS	X	C	X	X	C	X	X	E	E	E	E	E	E	X	X	G
LACTIC ACID - COLD	E	X	E	E	X	E	E	E	E	E	E	E	E	E	E	E
LACTIC ACID - HOT			X	C	C	X	X	X	X	X		E	E	E	E	E
LARD	C		G	G	G	X	G	E	E	X	E	E	G	C	E	C
LAVENDER OIL	X		X	X		X	X	G		X		E	G	C	E	G
LEAD ACETATE	E		E	C		E	G	G		X		E	E	C	E	E
LEAD NITRATE	E		E	C		E	E	E		E		E	E	E	E	E
LEAD SULFATE	E		E	E	G	E	G	E	G			E	E	E	E	E
LIME	E		E	E	G	E	E	E	G			E		G	E	E
LIME BLEACH	E		E	G		E	G	E		E		E			E	E
LIME SULFUR, WET	E		C	G		C	E	E		E		E	E		E	E
LIMONENE	X		X	X		X	X	X				E			E	E
LINOLEIC ACID	X		X	X		X	C	G		X		E			E	G
LINSEED OIL	G	G	C	G	G	X	E	E	E	X		E	E	G	E	E
LUBRICATING OILS, SAE	X	G	X	X	E	X	C	E	E	X	X	E	E	E	E	E
LYE SOLUTIONS	E	C	E	E	C	E	E	C	G	G		E	E	G	G	E
M E X	G	C	E	X	C	X	X	X	E	X	X	E	E	X	X	E
MAGNESIUM ACETATE	E		E	E		X	X	X		X		E		X	X	E
MAGNESIUM CHLORIDE	E	G	E	E	G	E	E	E	E	E		E	E	E	E	E
MAGNESIUM HYDRATE	E		E	E		E	G	E				E	E	E	E	E
MAGNESIUM HYDROXIDE	E	G	E	E	C	E	E	E	E	G		E	E	C	E	E
MAGNESIUM SULFATE	E	G	E	E	G	G	E	E	E	G		E	E	C	E	E
MAGNESIUM SULFITE	E		E	E		G	E	E		G		E	E	E	E	E
MALEIC ACID	X		E	X		X	X	C		X		E	E	C	E	G
MALEIC ANHYDRIDE	X		X	X		X	X	X		X		E	E		E	E
MALIC ACID	X		X	G		E	G	E	E	G		E	E		E	E
MANGANESE SULFATE	G		E	E		G	E	E			G	E	E	E	E	E
MAPP			G				E	E		G		E	E			
MERCURY	E	G	E	E	E	E	E	E	E	E		E	E	E	E	E
MERCURY VAPORS	E		E	E	E	C	C	E	E	E		E	E	E	E	E
MESITYL OXIDE	C		G	X		X	X	X		X		E	E	X	X	E
METHALLYL ALCOHOL	E			E		E		E				E			G	E
METHALLYL CHLORIDE		C										E				
METHANE CARBOXYLIC ACID								SEE ACETIC ACID								
METHANOIC ACID	E	X	E	E	C	C	E	C	X	E	E	E		X	X	C
METHANOL (METHYL ALCOHOL)	E	G	E	E	E	E	E	E	G	E	E	E	E	X	C	C
METHANOL (WOOD ALCOHOL)	E	G	E	E	E	E	E	E	G	E	E	E	E	X	C	C
METHOXY ETHANOL			E													
METHOXYETHOXY ETHANOL		E														
METHYL 1-2,4-PENTANEDIOL																
METHYL ACETATE	G		G	C	C	X	C	X	E	X		E	E	X	X	E
METHYL ACETOACETATE	G		G	X		X	X	X				E	E	X	X	E
METHYL ACETONE	G		E	X		C	X	X				E	E	X	X	E
METHYL ACETYLENE PROPADIENE			G				E	E		G		E	E	X	C	E
METHYL ALCOHOL	E	G	E	E	E	E	E	E	G	E	E	E	E	X	C	E
METHYL ALLYL ALCOHOL	E			E		E	E	E				E	E		G	E
METHYL ALLYL CHLORIDE	F	C		X		X				X		E		F	F	G
METHYL AMYL CARBINOL	E			E		E		E				E			G	E
METHYL BENZENE	X	C	X	X	C	X	X	X	E	X	X	E		X	E	E
METHYL BROMIDE	C		C	X	X	X	X	G	G	X	X	E	G	X	E	E
METHYL BUTANE	X		X	X		X	X	E				E	E	G	E	E
METHYL BUTANOL	E	E	E	E	E	E	E	E	E	G	E	E	E	X	E	E
METHYL BUTYL KETONE	E		E	X		X	X	X		X		E	E	X	X	E
METHYL CARBITOL	E			E		X		C		X		E	E	X	X	E
METHYL CELLOSOLVE	G		G	C		X	G	C		X		E	E	X	E	E
METHYL CHLORIDE	X	C	X	X	X	X	X	X	C	X	X	E	E	X	E	E
METHYL CYANIDE	E		E	G		G	E	C		X		E	E	X	X	E
METHYL ETHYL KETONE	E	G	E	X	E	X	X	X	G	X	C	E	E	X	X	E
METHYL HEXANOL	E			E		E		E				E	E		G	E
METHYL ISOAMYL KETONE		C										E	E			
METHYL METHACRYLATE	C		X	X		X	X	X	C	X	C	E	G	X	X	G
METHYL NORMAL AMYL KETONE	G			X		X	X	X				E	E		X	E
METHYL PROPYL ETHER	X			G		X	X	X				E	E			E
METHYL SALICYLATE	G		C			X	X	X				E			G	
METHYL STYRENE		C										E				
METHYL SULFIDE	C			X		X		X				E				
METHYL TERTIARY BUTYL ETHER	G	X					X	X		X		E	G		X	
METHYL-1-PROPANOL	E		E	E		E	E	G		E		E		X	E	

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
METHYL-2-BUTANOL	E	E	C	E	X	E	X	X	E	E		E		X	F	E
METHYL-2-BUTANONE	G	X	C	X		X	X			X					X	E
METHYL-2-HEXANONE	G	C	E	X		X	E	G		X		E			X	E
METHYL-2-PENTANOL	E		G	E		G	X	X		X	X	E			C	E
METHYL-2-PENTANONE	C	X	G	X	X	X	X	X	G	X	X	E		X	X	E
METHYL-2-PROPEN-1-OL	E		E	E		G	E	G				E			C	
METHYL-3-PENTEN-1-ONE		C														
METHYL-4-ISOPROPYL BENZENE		C														
METHYLALLYL ACETATE	E			G		X		X				E			X	E
METHYLAMYL ALCOHOL	E		E	E		G	E	G				E			C	E
METHYLCYCLOHEXANE	X			X		X		X				E			G	G
METHYLENE BROMIDE	X		X	X		X	X	X				E	G		C	C
METHYLENE CHLORIDE	X		C	X	X	X	X	X	C	X	X	E	E	X	G	E
METHYLETHYL KETONE	E	G	E	X	E	X	X	X	G	X		E	E	X	X	E
METHYLHEXYL KETONE	G			X		X		X				E	E		X	E
METHYLISOBUTYL CARBINOL	E		E	E		G	E	G				E			C	C
METHYLISOBUTYL KETONE	C	X	G	X	X	X	X	X	G	X	X	E	E	X	X	E
METHYLISOPROPYL KETONE	G	X	C	X	X	X	X	X	E	X		E		X	X	E
METHYLLACTONITRILE	E			C		C	B	X			E	E		X	X	E
METHYLPHENOL	X		X	C		X	X	X				E		X	X	E
METHYLPROPYL CARBINOL	E			E		E		E				E			G	E
METHYLPROPYL KETONE	G		G	X		X	X	X		X		E			X	E
MIL-A-6091	E		E	E		E	E	E		E				X	E	
MIL-E-9500	E		E	E		E	E	E		E				X	E	
MIL-F-16884	X		X	C		X	C	E		X				C	E	
MIL-F-17111	X		X	X		X	G	E		X				C	E	
MIL-F-25558B	X		X	G		X	G	E		X				C	E	
MIL-F-25576C	X		X	C		X	C	E		X				C	E	
MIL-F-7024A	X		X	X		X	X	E		X				C	E	
MIL-G-10924B	X		X	G		X	X	E		X				G	E	
MIL-G-25013D	X		X	G		X	G	E		X				C	E	
MIL-G-25537A	X		X	G		X	G	E		X				C	E	
MIL-G-4343B	C		C	G		C	G	E		C				G	E	
MIL-G-5572	X		X	X		X	X	E		X				G	E	
MIL-G-7711A	X		X	X		X	X	E		X				G	E	
MIL-H-13910B	G		E	G		G	G	G		E				X	E	
MIL-H-19457B	E		E	X		X	X	X		X				X	C	
MIL-H-22251	E		E	G		X	G	G		G				X	E	
MIL-H-27601A	X		X	C		X	G	G		X				C	E	
MIL-H-5606B	X		C	G		X	G	E		X				C	E	
MIL-H-6083C	X		X	G		C	G	E		X				G	E	
MIL-H-8446B	X		X	C		X	G	G		X				C	E	
MIL-J-5161F	X		X	X		X	X	E		X				C	E	
MIL-J-5624G (JP-3, JP-4, JP-5)	X		X	X		X	X	E		X				C	E	
MIL-L-15016	X		X	G		X	G	E		X				E	E	
MIL-L-17331D	X		X	G		X	G	E		X				E	E	
MIL-L-2104B	X		X	C		X	G	E		X				E	E	
MIL-L-21260	X		X	G		X	G	E		X				E	E	
MIL-L-23699A	X		X	C		X	C	G		X				C	E	
MIL-L-25681C	E		E	G		G	G	G		G				C	E	
MIL-L-3150A	X		X	G		X	G	E		X				G	E	
MIL-L-3545B	X		X	C		C	G	E		X				C	E	
MIL-L-4339C	X		X	X		X	X	E		X				X	E	
MIL-L-6082C	X		X	G		X	G	E		X				E	E	
MIL-L-6085A	X		X	X		X	X	G		X				C	E	
MIL-L-7870A	X		X	X		X	G	E		X				X	E	
MIL-L-9000F	X		X	C		X	G	E		X				C	E	
MIL-L-9236B	X		X	X		X	X	E		X				X	E	
MIL-O-5606								E				E			E	
MIL-O-7808	X	G	X	X	E	X	X	E	E	X	X	E	E	X	E	E
MIL-P-27402	E		E	G		G	G	E		G						
MIL-S-3136B TYPE 1 FUEL	X		X	G		X	G	E		X				G	E	
MIL-S-3136B TYPE 2 FUEL	X		X	X		X	X	C		X				G	E	
MIL-S-3136B TYPE 3 FUEL	X		X	X		X	X	C		X				G	E	
MIL-S-3136B TYPE 4 OIL, LOWSWELL	X		X	E		X	E	E		X				E	E	
MIL-S-3136B TYPE 5 OIL, MEDSWELL	X		X	G		X	G	E		X				G	E	
MIL-S-3136B TYPE 6 OIL, HI SWELL	X		X	X		X	X	E		X				G	E	
MIL-S-81087	E		E	E		E	E	E		E				G	E	
MINERAL OIL	X	G	X	E	E	X	E	E	E	X	X	E	E	E	E	E
MINERAL SPIRITS	X		X	G		X	X	E		X	X	E	E	G	E	E

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
MOBILE HFA	G		X	E		G	E	E	E			E	X	G	E	X
MOLTEN SULFUR	X		X	X		X	C	C	X	X		E		X	X	E
MONOBUTYL ETHER	G	X	X	X	X	C	C	E	X	X	X	E		X	X	E
MONO-CHLOROACETIC ACID	G		X	X	C	X	X	X	G	X	X	E	G	X	X	E
MONOCHLOROBENZENE	X		X	X	C	X	X	X			X	E		X	X	E
MONOCHLORODIFLUOROMETHANE	X	C	E	E	X	C	E	X		E	X	E		X	X	C
MONOETHANOL AMINE	G		G	C		G	G	G		G		E		X	X	C
MONOETHYL AMINE	G		E	C		C	X	X		C		E		X	X	C
MONOMETHYLAMINE	G		E	C		C	X	X		C		E		X	X	C
MORPHOLINE			X				X	X	X			E				
MOTOR OIL			X	G	G		G	E	G			E	E	G	E	E
MTBE	G	X					X	X	X	X		E	E	C	X	E
MURIATIC ACID	C	X	C	C	C	C	C	C	X	X	E	E	E	C	C	E
NA-K			X					X				X				
NAPHTHA	X	E	X	X	E	X	X	E	E	G	X	X	E	C	E	E
NAPHTHALENE	X	C	X	X	C	X	X	X	G	X	C	E	E	G	E	E
NAPHTHENIC ACIDS		E	X	X		X	X	G	X	X		E	E		E	E
N-BUTANAL	G		G	C		X	C	X				E		C	X	E
N-BUTYLAMINE	X		C	X		X	X	X		X		E		X	X	E
N-BUTYLBENZENE	X		C	X		X	X	X		X		E		X	X	E
N-BUTYLBROMIDE	X			X		X	X	X		X		E			G	G
N-BUTYLBUTYRATE	E		E	X		X	X	X		X		E			E	E
N-BUTYLCARBINOL	E	E	E	E	E	E	E	E	E	E	E	E		X	E	E
NEOHXANE	X			X		X		E		E		E			E	E
NEON GAS	E		E	E		E	E	E	E	E	E	E		E	E	E
NEU-TRI	X			X		X		X				E			E	E
NICKEL ACETATE	E		E	X		E	G	G		X		E	E	X	X	E
NICKEL CHLORIDE	E	X	E	E	C	E	G	E	C	E		E	E	C	E	E
NICKEL NITRATE	E		E	E		E	E	E				E	E		E	E
NICKEL SULFATE	E	X	E	E	C	G	E	E	C	G		E	E	C	E	E
NIETYLENE						E										
NITRIC ACID, 10%	E	X	E	G	C	X	G	X	C	X	E	E	E	X	X	C
NITRIC ACID, 13%	X	X	X	X	X	X	X	X	X	X		E	E	X	X	
NITRIC ACID, 13N + 5%	X	X	X	X	X	X	X	X	X	X		E	E	X	X	
NITRIC ACID, UP TO 25%	G	X	E	G	X	X	X	X	X	X		E	E	X	C	E
NITRIC ACID, 25% TO 40%	C	X	G	C	X	X	X	X	X	X		E	E	X	C	G
NITRIC ACID, 40% - 60%	X	X	X	X	X	X	X	X	X	X		E	E	X	C	G
NITRIC ACID, CONC (16N)	X	X	X	X	X	X	X	X	X	X	X	E	E	X	C	G
NITRIC ACID, RED FUMING	C	X	X	X	X	X	X	X	X	X	X	E	E	X	C	G
NITRILOTRIETHANOL	G		E	X	X	G	X	X		G		E		X	X	
NITROBENZENE	G	C	X	X	X	X	X	X	C	X		E	E	X	C	E
NITROETHANE	G		G	C		G	C	X		G	E	E	E	X	X	E
NITROGEN	E		E	E		E	E	E		E		E	E	E	E	E
NITROMETHANE	G		G	C	C	G	X	X		C		E	E	X	X	E
NITROUS OXIDE GAS	E		E	E		E	G	E	C	C		E	E	G	E	E
N-NONYL ALCOHOL	E			E		E		E				E	E		G	G
N-OCTANE	X			X		X		E		X		E	E		E	
NONANOIC ACID	E			X		X		E				E	E		G	
NONANOL	E			E		E		E				E	E		G	C
N-SERV (75% XYLENE)									E			E				
NUTO H			X					X	E			E				
NYVAC LIGHT			E						E			E				
O-AMINOTOLUENE		G										E				
OCTANOIC ACID	C					C		C				E				
OCTANOL	G		E	G		G	G	G		G		E	E	X	E	E
OCTYL ACETATE	E			E		X		X				E	E		X	E
OCTYL ALCOHOL	G			G		G		G		G		E	E		X	E
OCTYL ALDEHYDE	C			X		X		X				E	E		X	E
OCTYL AMINE	E			C		C		C				E	E		X	E
OCTYL CARBINOL	E			E		E		E				E	E		X	E
OCTYLENE GLYCOL	E			E		E		E				E	E		E	E
OIL-PETROLEUM	X	G	X	G	E	X	G	E	G	X	C	E	E	G	E	C
OLEIC ACID	X	X	C	G	E	X	C	X	X	X		E	E	X	E	E
OLEUM (FUMING SULFURIC ACID)	X	X	X	X	X	X	X	X	X	X		E	E	X	E	E
OLIVE OIL	G		G	X		X	G	E	X	X		E	X	E	E	C
ORTHO-DICHLOROBENZENE	X		X	X	X	X	X	X	E	X	X	E		X	E	
ORTHO-DICHLOROBENZOL	X		X	X	X	X	X	X	E	X	X	E		X	E	
ORTHOXYLENE	X	C	C	X	C	X	X	X	G	X	X	E		X	E	G
OXALIC ACID	E	X	E	E	X	C	G	G	G	G	E	E	E	C	E	C
OXYDIETHANOL		E										E				

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrek	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
OZONE	G		E	E	C	X	C	X	C	X		E	C	E	E	C
PAINT THINNER	X		X	X		X	X	X	X	X		E	E	E	E	E
PALMITIC ACID	G	G	G	C	E	E	G	E	C	B	E	E	E	E	E	G
PAPERMAKERS ALUM	E		E	E		E	E	E				E	G		E	E
PARA METHOXYPROPENYL BENZENE	X	X		X		X			G			E			E	E
PARA-DICHLOROBENZENE	X		X	X		X	X	X		E		E		X	E	G
PARAFFIN WAX	X		X	X		X	G	E				E	E	G	E	X
PARALDEHYDE	E		E	X		C	C	C				E			X	E
PARAXYLENE	X		X	X		X	X	C				E		C	E	E
PCB												E			E	E
P-CYMENE	X	X	X	X		X	X	X		X		E	E	X	E	E
PELARGONIC ALCOHOL	E			E		E		E				E	E		E	E
PENTACHLOROETHANE	X			X		X	X	X				E			E	E
PENTADIONE		G										E				
PENTAMETHYLENE	X		X	X		X	E	G				E			E	
PENTANE	X		X	C	G	X	C	E	G	X		E	G	C	E	G
PENTANOL	E		E	E		E	E	E				E		C	G	
PENTANONE	G		G	X		X	X	X				E			X	E
PENTASOL	E		E	E		E	E	G		G		E		X	X	E
PENTYL ACETATE	G		E	X	C	X	X	X	G	X	X	E		X		
PENTYL ALCOHOL	E	E	E	E	E	E	E	G	E	E	E	E		X	E	
PENTYL BROMIDE												E			E	
PENTYL CHLORIDE	X	C	X	X		X	X		E	X		E		C	E	G
PENTYL ETHER				C				C				E				
PENTYLAMINE	G		X	C		C	X	C				E			X	
PERCHLORIC ACID-2N	G		G	G	X	X	G	X	X	X	X	E		X	E	E
PERCHLOROETHYLENE	X	C	X	X	X	X	X	C	C	X	X	E	G	X	E	G
PERCHLOROMETHANE	X					X	X	X				E			E	
PETROLEUM CRUDE	X		X	G	C	X	G	E	G	X		E	E	E	E	E
PETROLEUM ETHER	X		X	X		X	C	E	E	X		E	E	G	E	E
PETROLEUM OILS	X	G	X	G	E	X	G	E	G	X	C	E	E	G	E	E
PHENBO												E	E	X		
PHENOL	G			X	X	X	X	X	X	X	X	E	E	X	E	E
PHENOLSULFONIC ACID	C			X		X		X				E	E	X	X	E
PHENYLAMINE	E		G	X		X	X	X				E	E	C	E	E
PHENYLBROMIDE	X		X	X		X	X	X				E		X	G	
PHENYLBUTANE		C														
PHENYLCHLORIDE	X		X	X		X	X	X				E		X	E	E
PHENYLETHYLENE	X		X	X	X	X	X	X		X		E		C	G	
PHENYLMETHANE	X		X	X		X	X	X				E		X	E	
PHENYLMETHANOL	G		G	G	C	X	X	X	C	X	X	E	E	X	E	E
PHENYLMETHYL ACETATE	E		G	G		X						E	E	X	X	E
PHOSPAHTE ESTERS	E		E	X	C	X	X	X	E	X	E	E	E	X	C	E
PHOSPHORIC ACID 10%	G	X	E	E		E	E	E	E	G	E	E	E	E	E	E
PHOSPHORIC ACID 10% - 85%	G	X	E	E	X	G	E	X	C	G		E	E	C	E	E
PHOSPHORUS TRICHLORIDE ACID	E		E	X		X	X	X	X	X	X	E		G	E	E
PICRIC ACID, H2O SOLUTION	C	X	C	E	X	C	C	C	X	G	X	E		E	E	E
PINE OIL	X		X	X		X	X	X		X		E	E	E	E	E
PINENE	X		X	X		X	X	G		X		E	E	E	E	E
POLY CHLORINATED BIPHENOL												E		E	E	E
POLYETHYLENE GLYCOL E-400	E	E		E		E				E			E		E	
POLYOL ESTER					X		G		G					X		
POLYPROPYLENE GLYCOL	E			E		E		E				E			E	
POTASSIUM ACETATE	E		E	E		E	G	E	G	X		E	E	X	E	E
POTASSIUM BISULFATE	E		E	E		E	E	E	G	G		E	E		E	E
POTASSIUM BISULFITE	E		E	E		E	E	E	G	G		E	E	E	E	E
POTASSIUM CARBONATE	E		E	E		E	E	E	C	E		E	E	E	E	E
POTASSIUM CHLORIDE	E	G	E	E	G	E	E	E	E	E		E	E	E	E	E
POTASSIUM CHROMATE	E		E	C		G	E	E	E	E		E	E	E	E	E
POTASSIUM CYANIDE	E	G	E	E	G	E	E	E	E	E		E	E	E	E	E
POTASSIUM DICHROMATE	E	X	E	E		C	E	E	G	G		E	G	G	E	G
POTASSIUM HYDRATE	E		G	E		G	G	E	G	G		E	E	G	C	G
POTASSIUM HYDROXIDE	E	X	E	E	C	G	G	E	G	G	G	E	E	G	C	E
POTASSIUM NITRATE	E		E	E	G	E	E	E	E	E		E	E	E	E	E
POTASSIUM PERMANGANATE, 5%	E		E	G	X	E	E	E	X	E		E	E	E	E	E
POTASSIUM SILICATE	E		E	E		E	E	E	G	E		E	E	E	E	E
POTASSIUM SULFATE	E		E	E	G	E	E	E	E	G		E	E	E	E	E
POTASSIUM SULFIDE	E		E	E		G	E	E	E	G		E	E	E	E	E
POTASSIUM SULFITE	E		E	E		G	E	E	E	G		E	E	E	E	E
PRESTONE ANTIFREEZE	E	G	E	E	G	E	C	E	G	E	E	E	E	X	E	E

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrek	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
PRODUCER GAS	X		X	G		X	G	E		X		E		E	E	
PROPANEDIOL	C		E	E		E	C	E		E		E		G	E	
PROPANETRIOL	E	E	E	E	E	E	E	E	G	E	X	E		C	E	
PROPANOL	E		E	E		E	E	E		E	E	E		X	E	E
PROPANOLAMINE		E														E
PROPANONE	E	G	E	X	C	C	X	X	E	C	E	E		X	X	
PROPEN-1-OL	E		E	E		E	E	E				E	E		G	E
PROPENEDIAMENE		E														
PROPENITRILE	X					G	X	X				E				
PROPENYL ALCOHOL	E		E	E		E	E	E				E	E		G	E
PROPENYLANISOLE	X			X		X		X				E			G	
PROPIONIC ACID	E		E	G		E	C	C		X		E		X	X	E
PROPIONITRILE	E		E			E	G	X			X	E			X	E
PROPYL ACETATE	G		E	X		X	X	X		X		E	E	X	X	E
PROPYL ALCOHOL	E		E	E		E	E	E		E	E	E	E	X	E	E
PROPYL ALDEHYDE	G			X		C		X				E	E		X	E
PROPYL BENZENE		C														
PROPYL CHLORIDE	C			X		X		X				E	E		G	E
PROPYL ETHER		E														
PROPYL NITRATE	G		G	X		X	X	X		X		E		X	X	
PROPYLENE	X		X	X		X	X	X		X		E		X	E	
PROPYLENE DIAMINE	E			C		G	X	G				E				
PROPYLENE GLYCOL	C		E	E		E	C	E		E		E	E	G	E	
PYDRAUL, 'E' SERIES	G		G	X	G	X	X	X	G	X		E	E	X	E	E
PYDRAULIC 'C'	X		X	X	C	X	X	X	E	X	E	E	E	X	E	E
QUINTOLUBRIC 822 SERIES	X		X	X		X	X	G							G	G
RED OIL	X	X	C	G	E	X	C	E	E	X		E		G	E	
REFRIGERANT 11	X	X	X	E	E	X	X	G	G	X		E		C	C	
REFRIGERANT 12	C	C	C	E	E	C	E	E		E	X	E		C	C	
REFRIGERANT 22	X	C	E	E	X	C	E	X	G	E	E	E		X	C	C
RESORCINOL			G	X	X	X	C	E	X	G	X	E		X	E	
SAE NO. 10 OIL	X	G	X	X	E	X	E	E	E	X	X	E		E	E	
SAL AMMONIAC	E	G	E	E	E	E	E	E	E	E	E	E	E	G	E	
SEA WATER	E	G	E	E	E	E	E	E	E	E	E	E	E	C	E	E
SEWAGE	G		E	E	E	G	G	E	E	G	G	E	E	X	E	E
SILICATE ESTERS	C		X	G	C	X	E	G	G	X		E		E	E	E
SILICATE OF SODA	E		E	E		E	E	E	E			E		E	E	E
SILICONE GREASE	E		E	E	E	E	E	E	E	E		E		E	E	E
SILICONE OIL	E		E	E	G	C	E	E	E	E		E	E	E	E	E
SILVER NITRATE	E		E	E	E	E	E	E	E	E		E	E	E	E	E
SKYDROL 500 TYPE 2	G	G	E	X	G	X	X	X	G	X	E	E		X	X	
SKYDROL 500B	G	G	E	X	E		X		E		E	E		C	X	
SKYDROL 500C	G	G	E	X	E		X					E			X	
SKYDROL 7000 TYPE 2	E	G	E	X	X	X	X	X	E	X		E		X	G	
SOAP SOLUTIONS	G	G	E	E	E	G	G	E	E	G	E	E	E	E	E	E
SODA ASH	E	G	E	E	G	E	E	E	G	E		E	E	G	E	E
SODA LIME	E		E	G		E	G	G	E			E	E	C	G	E
SODA NITER	E	G	E	E	G	G	G	G	E	G		E	E	G	E	E
SODA, CAUSTIC	E	C	E	E	C	G	E	C	G	E	C	E	E	G	X	E
SODIUM ACETATE	E		E	E	E	E	E	E	G	X		E	E	X	E	E
SODIUM ALUMINATE	E		E	E		G	E	E	G	G		E	E	E	E	E
SODIUM BICARBONATE	E		E	E	G	E	E	E	E	E		E	E	E	E	E
SODIUM BISULFATE	E	X	E	E	C	E	E	E	C	G		E	E	E	E	E
SODIUM BISULFITE	E		E	E	E	E	E	E	E	G		E	E	E	E	C
SODIUM BORATE	E		E	E	G	E	E	E	E	E		E	E	G	E	E
SODIUM CARBONATE 10% - 15%	G	G	E	E	E	E	E	E	G	E	C	E	E	G	E	E
SODIUM CHLORIDE	E	G	E	E	E	E	E	E	G	E		E	E	E	E	E
SODIUM CYANIDE	G	G	E	E	G	E	E	E	E	E		E	E	G	E	E
SODIUM DICHROMATE	E		C	G		X	C	E	G	G		E	E	E	C	G
SODIUM HYDRATE	E		E	G		E	G	G	G	G		E	E	C	G	E
SODIUM HYDROCHLORITE	G		G	E		C	C	C	G	G		E	E	C	E	G
SODIUM HYDROXIDE (CAUSTIC SODA)	E	C	E	E	C	E	G	C	G	G	C	E	E	C	C	E
SODIUM HYPOCHLORITE	G	X	G	G	C	X	C	X	X	C		E	E	C	C	E
SODIUM METAPHOSPHATE	G		E	E	E	E	G	E	E	E		E	E	G	E	E
SODIUM NITRATE	E	G	E	E	G	G	G	G	E	G		E	E	G	E	E
SODIUM PERBORATE	E	X	E	G	G	G	G	G	E	G		E	E	G	E	E
SODIUM PEROXIDE	E	X	E	G	G	G	G	G	X	G		E	E	X	E	E
SODIUM PHOSPHATE	E		E	E	G	E	C	E	C	E		E	E	E	E	E
SODIUM SILICATE	E	G	E	E	G	E	E	E	E	E		E	E	E	E	E
SODIUM SULFATE	E	G	E	E	G	G	E	E	E	G		E	E	E	E	E

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
SODIUM SULFIDE	E	G	E	E	G	G	E	E	E	G		E	E	E	E	E
SODIUM SULFITE	E		E	E		G	E	E	E	G		E	E	E	E	E
SODIUM THIOSULFATE	E		E	E		G	E	E	E	G		E	E	E	E	E
SOYBEAN OIL	C	G	X	E	G	X	E	E	E	X		E	E	E	E	E
STANNIC CHLORIDE	G	X	E	C	G	G	C	E	C	E		E	E	G	E	E
STANNIC SULFIDE	E			E		E		E				E				E
STANNOUS CHLORIDE	G		C	E	G	E	E	E	C	E		E	E	C	E	
STANNOUS SULFIDE	E			E		E		E				E				E
STEARIC ACID	G	G	G	C	G	C	G	E	E	G	E	E	E	E	E	E
STODDARD SOLVENT	X	G	X	X	E	X	C	E	E	X	X	E	E	G	E	E
STYRENE MONOMER	X		X	X	X	X	X	X		X		E	G	C	G	G
SULFAMIC ACID	E		X	E		G	G	C				E		X	E	C
SULFUR	F		F	F		X	X	X		X		E	E	E	G	X
SULFUR CHLORIDE	X	G	X	C	C	X	C	C	C	X		E	E	C	E	C
SULFUR DIOXIDE	G		E	C	X	C	X	X	X	C		E	E	E	E	C
SULFUR TRIOXIDE, DRY	G		G	C	X	C	X	X	X	X		E	X	G	E	G
SULFURIC ACID 60% (200F)	X	X	X	X	X	X	X	X	X	X		E	X	X	C	X
SULFURIC ACID, 25%	G	X	E	E	E	G	E	E	X	G	E	E	E	X	E	E
SULFURIC ACID, 25% - 50%	G	X	E	G	G	G	E	E	X	G	E	E	E	X	E	E
SULFURIC ACID, 50% - 96%	X	X	G	C	X	X	C	C	X	X		E	E	X	E	E
SULFURIC ACID, CONC. 96% TO 98%	X	X	X	X	X	X	X	X	X	X		E	E	X	G	C
SULFURIC ACID, FUMING	X	X	X	X	X	X	X	X	X	X		E	X	X	G	X
SULFUROUS ACID, 10%	E	X	E	E	C	G	G	C	C	G		E	E	E	E	E
SULFUROUS ACID, 10% - 85%	E	X	G	E	C	G	C	C	X	C		E	E	X	G	E
SUTAN																
TALL OIL	X		X	C		X	C	E		X		E	E	E	E	C
TALLOW	G		E	C		C	G	E		X		E	E	E	E	C
TANNIC ACID	E	X	E	E	G	E	E	E	G	G	E	E	E	E	E	E
TAR, BITUMINOUS	X	G	X	C	G	C	C	G	G	X		E	E	G	E	E
TAR, CAMPHOR	X	C	X	X	C	X	X	X	G	X	C	E	X	G	E	X
TARTARIC ACID	G	X	C	E	G	E	E	E	E	G	E	E	E	E	E	E
T-BUTYL AMINE			G	X												
TELONE 2																E
TERPINOL	C	E	C	X		X	X	G		X		E	G	G	E	G
TERTIARY BUTYL ALCOHOL	G		G	G		G	G	G		G		E	E	X	E	E
TERTIARY BUTYL AMINE			G	X												
TERTIARY BUTYL MERCAPTAN	X		X	X		X	X	X		X		E		X	E	
TETRACHLORO BENZENE	X		X	X		X	X	X		X		E	E	X	E	G
TETRACHLOROETHANE	X		X	X		X	X	X		X	C	E	E	X	E	
TETRACHLOROETHYLENE	X		X	X		X	X	C	C	X		E	E	X	E	E
TETRACHLOROMETHANE	X		X	X		X	X	X				E		C	E	E
TETRACHLORONAPHTHALENE	X			X		X		X				E			E	G
TETRAETHYLENE GLYCOL	E			E		E		E				E			E	
TETRAETHYLORTHOSILICATE	E			X		X	X	X				E				
TETRAHYDROFURAN	G		X	X	C	X	X	X	G	X	X	E	G	X	X	X
THF	G		X	X	C	X	X	X	G	X	X	E	G	X	X	X
TIN CHLORIDES	G		E	E		E	C	E				E	E	X	E	E
TITANIUM TETRACHLORIDE	X		X	X		X	X	C		X		E	E	X	E	E
TOLUENE	X	C	X	X	C	X	X	X	E	X	X	E	E	X	E	E
TOLUIDINE	X		X	X		X	X	X				E	E	E	E	
TOLUOL	X	C	X	X	C	X	X	X	E	X	X	E		X	E	
TRANSFORMER OIL	X		X	C		X	G	E		X		E	E	E	E	
TRANSMISSION 'A' OIL	X		X	G	G	X	G	E	G	X		E	E	E	E	F
TRI (2-HYDROXYETHYL) AMINE	G		E	E	X	G	X	C		G		E	E	X	X	
TRIBUTYL AMINE	E			C		G		G				E				
TRIBUTYL PHOSPHATE	G		E	X	C	C	X	X	G	X		E	E	X	X	E
TRICHLOROACETIC ACID	G		G	C	X	C	X	C	X	X		E	E	X	X	E
TRICHLOROBENZENE	X			X		X	X	X		X		E	E	X	X	E
TRICHLOROETHANE	X		X	X		X	X	X	X	X		E	E	X	X	E
TRICHLOROETHYLENE	X	C	X	X	X	X	X	X	C	X	X	E	G	X	E	G
TRICHLOROMETHANE	X	X	X	X	X	X	X	X	C	X	X	E		X	E	
TRICHLOROTOLUENE												E				
TRICRESYL PHOSPHATE	E		E	X	C	C	C	X	G	X		E	E	X	E	E
TRIETHANOLAMINE	G		E	E	X	G	X	C		G		E	E	X	X	E
TRIETHYLAMINE	C		E			G	G	G		X		E		X	E	
TRIETHYLENE GLYCOL	E			E		E		E				E				
TRIHYDROXYBENZOIC ACID	G		G	G	X	E	G	E	G	G		E		X	E	E
TRIMETHYL PENTANES (MIXED)	X		X	C	E	X	C	E	E	X	X	E		G	E	E
TRIMETHYL PENTENE		E										E				
TRIMETHYLAMINE	E	E										E	E			E

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Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrej	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
TRISODIUM PHOSPHATE	E		E	E	E	E	E	E	E	E		E		E	E	E
TRITOYL PHOSPHATE	X	C	X	E	E	X	X	X	G	X		E		X	E	E
TUNG OIL	X	C	X	E	E	X	E	E	G	X		E	E	C	E	E
TUNG OIL (CHINA OIL)	X	C	X	E	E	X	E	E	G	X		E	E	C	E	E
TURPENTINEX	X	G	X	X	X	X	X	X	E	X	X	E	G	E	E	G
UDMH	E		E	E		E	G	G		X		E		X	X	
UNDECYL ALCOHOL	E		E	E		E	G	G				E		G	G	
UREA	E		E	E	G	E	G	G	E		E	E	E			
URETHANE FORMULATIONS					X			E	G		E	E		X		
URIC ACID								E	G		E	E		X		
VARNISH	X	C	X	X		X	X	G	E	X		E		C	E	
VEGETABLE OILS	C		C	E		X	C	E	E	X		E	E	E	E	E
VERSILUBE F44	E		E	E		E	E	E	E	E		E	E	E	E	E
VERSILUBE F55	E		X	E		E	E	E	E	E		E	E	E	E	E
VINEGAR	E		E	E	C	G	G	G	E	G		E	X	C	E	X
VINEGAR ACID		G														
VINYL ACETATE	E		G	C		X	X	X		X		X	E	X	E	E
VINYL BENZENE	X		X	X	X	X	X	X		X		E	E	C	G	E
VINYL CHLORIDE (GAS)	X		G	X		G	X	X		X		E	E	E	E	E
VINYL CYANIDE	X	E	X	C		C	C	X	E	C	X	E	E	X	C	E
VINYL ETHER	X			G		X		G				E	E		X	E
VINYL STYRENE	X			X		X		X		X		E	E		E	E
VINYL TOLUENE	X			X		X		X				E	E		E	E
VINYL TRICHLORIDE	X			X		X	X	X				E	E		E	E
VITAL, 4300, 5310			X			X	X	X	E			E	E		E	E
VM&P NAPHTHA	X		X	X		X	C	C				E	E	E	E	X
WATER	E	G	E	E	E	E	G	E	E	G	E	E	E	E	E	E
WATER, BOILING	E		E	E	E		G	E	X	G	E	E	X	G	G	X
WATER, SODA					E				E		E	E				
WEMCO C	X		X	X		X	G	E		X		E		E	E	
WHISKEY	E		E	E	G	E	E	E	E	E		E	X	X	E	X
WHITE OIL	X		X	X		X	G	E	X	X		E	E	E	E	X
WHITE PINE OIL	X		X	X		X	X	E	X	X		E	E	E	E	E
WINES	E		E	E	G	E	E	E	E	E		E	X	X	E	X
WOOD ALCOHOL	E		E	E		E	E	E	E	E		E	E	X	C	E
WOOD OIL	C		X	C	G	X	G	E	G	X		E	E	C	E	E
XENON	E		E	E		E	E	E		E		E	E	E	E	E
XYLENE, XYLOL	X	C	X	X	C	X	X	X	G	X	X	E	C	C	E	C
XYLIDINE	G		C	X		X	X	C		X		E	G		C	G
ZEOLITES	E		E	E		E	E	E		E		E		E	E	E
ZINC ACETATE	E		E	C		E	G	G		X		E		X	C	
ZINC CARBONATE	E		E	E		E	E	E		E		E		E	E	E
ZINC CHLORIDE	E	X	E	E	E	E	E	E	E	E		E	E	G	E	E
ZINC CHROMATE	E		E	C		E	E	E		E		E		E	E	G
ZINC SULFATE	E	X	E	E	C	E	E	E	X	G		E		G	E	E