

Corrosion Resistance of Coupling Materials

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CAUTION: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

KEY: 1 = Excellent
 2 = Good
 3 = Fair or Conditional
 X = Not Satisfactory.

NOTE: No rating indicates no data available.

Chemical or Material Conveyed	Mall. from Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Acetate, Solvents, Crude		3				2	1	1	2
Acetate, Solvents, Pure		1		1		1	1	1	1
Acetic Acid	X	X	X	2	1	X	2	2	2
Acetic Acid Vapors	X	X		3		X	2	2	2
Acetic Anhydride	X	X		2		X	2	2	2
Acetone	1	1	1	1	1	1	1	1	1
Acetylene	1	2		1		1	1	1	2
Alcohols	1	2		1		1	1	1	1
Aluminum Sulfate	X	3	3	3	1	X	3	2	2
Alums	X	3	2	3	1	X	3	2	2
Ammonia Gas	1	X	3	1	3	1	1	1	X
Ammonium Chloride	1	3		1*		3	3	1	1
Ammonium Hydroxide	2	X		2		1	1	1	3
Ammonium Nitrate	1	X		2		1	1	1	3
Ammonium Phosphate (Ammoniacal)		X				1	1	1	2
Ammonium Phosphate (Neutral)		3				1	1	1	2
Ammonium Phosphate (Acid)		3				3	2	1	2
Ammonium Sulfate	1	3				2	1	1	2
Asphalt	1	2				2	1	1	1
Beer	2	2	1	1		X	1	1	1
Beet Sugar Liquors	1	2		1		2	1	1	1
Benzene, Benzol	1	1	1	1	1	1	1	1	1
Benzine (petroleum - naphtha)	1	1		1		1	1	1	1
Borax	2	2				1	1	1	1
Boric Acid	X	3		1		3	2	1	1
Butane, Butylene	1	1	1	1		1	1	1	1
Butadiene		1				1	1	1	1
Calcium Bisulfate		X				X	2	1	X
Calcium Hypochlorite	3	3	3	X	3	X	3	2	3
Cane Sugar Liquors	1	2		1		2	1	1	1
Carbon Dioxide (Dry)	1	1		1		1	1	1	1
Carbon Dioxide (Wet & Aqueous Sol)	2	3		2		2	1	1	2
Carbon Disulfide	2	3		2		2	1	1	3
Carbon Tetrachloride	3	1	2	3	1	1	1	1	1
Chlorine (Dry)	2	2	2	1	2	2	2	2	1
Chlorine (Wet)	X	X	3	X	2	X	X	3	3
Chromic Acid		X	X	X	1	3	2	2	3
Citric Acid	X	3		1		3	X	1	2
Coke Oven Gas	1	3		2		1	1	1	2
Copper Sulfate	X	X		X		1	1	1	3
Core Oils		1	1			1	1	1	1
Cottonseed Oil	1	1	1	1		1	1	1	1
Creosote	2	3		1		1	1	1	1
Ethers	2	1		1		1	1	1	1
Ethylene Glycol	2	2				1	1	1	1
Ferric Chloride	X	X	X	X	1	X	X	X	X
Ferric Sulfate	X	X		X		1	1	1	3
Formaldehyde	2	2		2		1	1	1	1
Formic Acid	X	2		X		X	2	1	2
Freon	3	1	1	1		1	1	1	1
Furfural	1	2		1		1	1	1	1
Gasoline (Sour)	3	3		3		3	1	1	X
Gasoline (Refined)	1	1	1	1		1	1	1	1
Gelatin	1	3		1		1	1	1	1
Glucose	1	1		1		1	1	1	1
Glue	1	3		1		1	1	1	1
Glycerine or Glycerol	1	2		1		1	1	1	1
Hydrochloric Acid	X	X	X	X	1	X	X	X	X
Hydrocyanic Acid	3	X		1		3	1	1	2
Hydrofluoric Acid	X	3	3	X	X	X	X	X	1
Hydrogen Fluoride		3				X	X	3	1
Hydrogen	1	1		1		1	1	1	1
Hydrogen Peroxide	X	X		1		1	2	1	2
Hydrogen Sulfide (Dry)	3	3		2		3	2	1	3
Hydrogen Sulfide (Wet)	3	3		2		3	2	1	3
Lacquers and Lacquer Solvents	3	2		1		1	1	1	1

*3 to X at high temperatures

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Chemical or Material Conveyed	Mall. from Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 304, 308	Stainless 316	Monel	Acid & Chemical
Lactic Acid	X			3			3	2	1	Air & Multi-Purpose
Lime - Sulfur	2	X		2		1	1	2		
Linseed Oil	1	1		1			1	1	1	
Magnesium Chloride	3	3		X		3	2	1	1	
Magnesium Hydroxide	1	2		X		1	1	1	1	Fire Suppression
Magnesium Sulfate	2	2		3		1	1	1	1	
Mercuric Chloride	3	X		X		X	X	3	X	
Mercury	1	X		X		1	1	1	2	
Milk	3	3		1		2	1	1	3	Food Handling
Molasses	2	X		2		2	1	1	1	
Natural Gas	1	2		1		1	1	1	1	
Nickel Chloride		X		X		X	3	2	2	
Nickel Sulfate		3		X		3	2	1	1	Made To Order
Nitric Acid	X	X	X	3	1	2	2	2	X	
Oleic Acid	2	3		1		2	2	1	1	
Oxalic Acid	3	3		2		3	2	1	1	
Oxygen	1	1	1	1		1	1	1	1	Material Handling
Palmitic Acid	1	3		1		2	2	1	1	
Petroleum Oils (Sour)		3				3	1	1	X	
Petroleum Oils (Refined)	1	1	1	1		1	1	1	1	
Phosphoric Acid — 25%	3	X		3	3	X	3	1	2	Petroleum Transport
Phosphoric Acid — 25%–50%	X	X		X	3	X	X	2	2	
Phosphoric Acid — 50%–85%	X	X		X	X	X	X	2	2	
Picric Acid	3	X		3	X	2	1	1	X	
Potassium Chloride	2	3		3		3	2	1	1	Petroleum LP Gas
Potassium Hydroxide	3	X		X		1	1	1	1	
Potassium Sulfate	2	2		1		1	1	1	1	
Propane	1	1				1	1	1	1	
Rosin (Dark)	1	2			1	1	1	1	1	Oil Field
Rosin (Light)		X		1		1	1	1	2	
Shellac		2		2		1	1	1	1	
Sludge Acid		X				X	X	3	2	
Soda Ash (Sodium Carbonate)	1	2		X		1	1	1	1	Special Applications
Sodium Bicarbonate	3	1		X		1	1	1	1	
Sodium Bisulfate	X	3		3		X	1	1	1	
Sodium Chloride	2	3	2	X	1	3	2	1	1	
Sodium Cyanide	2	X		X		1	1	1	2	Water
Sodium Hydroxide	3	X	3	X	X	2	2	2	1	
Sodium Hypochlorite	X	X		X		X	3	2	3	
Sodium Metaphosphate	X	3		1		2	1	1	1	
Sodium Nitrate	1	3		1		1	1	1	1	Welding
Sodium Perborate	3	3		1		1	1	1	1	
Sodium Peroxide	3	3		1		1	1	1	1	
Sodium Phosphate – Alkaline		3				1	1	1	1	
Sodium Phosphate – Neutral		2				1	1	1	1	Couplings & Equipment
Sodium Phosphate – Acid		2				X	2	1	1	
Sodium Silicate	1	3		X		1	1	1	1	
Sodium Sulfate	1	2		3		1	1	1	1	
Sodium Sulfide	1	X				1	1	1	2	Safety & Tech Data
Sodium Thiosulfate (Hypo)	3	X		X		1	1	1	2	
Stearic Acid	3	3		3		2	2	1	1	
Sulfate Liquors		X				1	1	1	2	
Sulfur	2	X		2		2	2	1	3	Steam
Sulfur Chloride	X	X				X	3	2	2	
Sulfur Dioxide (Dry)	2	1		1		1	1	1	1	
Sulfur Dioxide (Wet)		X				X	2	1	X	
Sulfuric Acid — 10%	X	X	3	3		X	X	2	2	Water
Sulfuric Acid — 10% – 75%	X	X	X	X		X	X	X	2	
Sulfuric Acid — 75% – 95%	3	X	X	X		3	3	2	3	
Sulfuric Acid — 95%	2	X	X			2	2	2	X	
Sulfurous Acid	X	X		X		X	3	2	X	Welding
Tannic Acid	3	3	1	X			1	1	1	
Tar	1	2		1		2	1	1	1	
Toluene, Toluol	1	1		1		1	1	1	1	
Trichlorethylene	3	1		3		1	1	1	1	Couplings & Equipment
Turpentine		3		1		3	1	1	1	
Varnish	2	2				1	1	1	1	
Vegetable Oils	1	2		1		1	1	1	1	
Vinegar	3	3		3		3	2	1	2	Safety & Tech Data
Water (Acid Mine Water)	3	X		3		2	1	1	3	
Water (Fresh)	3	1		1		1	1	1	1	
Water (Salt)	3	3	2	X		3	2	2	1	
Whiskey	X	2				3	1	1	2	Safety & Tech Data
Wines	X	2				3	1	1	2	
Xylene, Xylol	2	1		1		1	1	1	1	
Zinc Chloride	X	X		X		3	2	1	1	
Zinc Sulfate	3	3		3		3	2	1	1	

*3 to X at high temperatures

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Chemical Charts

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/Dayco 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 chemicals. Do not confuse with chemical properties of standard polyethylene.	Tube
EPT or EPDM	EPDM	Ethylene-propylene-diene-terpolymer	Good general purpose polymer. Excellent heat ozone, and weather resistance. Not oil resistant	Tube/Cover
Fluorocarbon resin (Teflon)	TFE	Polytetra-fluoroethylene	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.	Tube/Cover
Hypalon	CSM	Chloro-sulfonated polyethylene	Excellent ozone, weathering and acid resistance. 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	Chloro-polyethylene	Good long term resistance to UV and weathering Good oil 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

Industrial Hose

Chemical Resistance Chart

Key:

- E = Excellent
- G = Good
- C = Conditional
- X = Unsatisfactory
- Blank = No Data

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.

Trade Name	Description	ASTM Codes	Parker Codes
BUTYL	ISOBUTYLENE-ISOPRENE	IIR	BU
CPE	CHLORINATED POLYETHYLENE	CM	CP
EPDM	ETHYLENE PROPYLENE-DIENE	EPDM	EP
HYPALON	CHLOROSULTONYL POLYETHYLENE	CSM	CS
HYTREL	THERMOPLASTIC POLYESTER	—	HY
NATURAL	NATURAL RUBBER	NR	NR
NEOPRENE	POLYCHLOROPREN	CR	CR
NITRILE	ACRYLONITRILE	NBR	NI
NYLON	NYLON POLYMER	—	NL
SBR	STYRENE-BUTADIENE	SBR	SB
SANTOPRENE	ETHYLENE-PROPYLENE-DIENE	EPDM	SP
TEFLON	FLUOROCARBON RESIN	TFE	TF
UHMW	ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE	—	UHMW
URETHANE	URETHANE	AU	AU
VITON	FLOROELASTOMER	FKM	VI
XLPE	CROSS-LINKED POLYETHYLENE	XPE	XP

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
	1 UNDECANOL	E			E		E	X	E		X		E			X
1,4-DIOXANE	G		G	X		X	X	X	E	X		E			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
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	C	G								
2 (2ETHOXYETHOXY) ETHANOL	E			G		C	C	G	E	G					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
2-CHLOROPROPANE	X		X	X		X	X	X	X	X	X	E			X	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	X				E			X	X
2-ETHYL-1-HEXANOL	E		E	E		E	E	E		E		E			X	E
2-ETHYLHEXANOIC ACID	C			G		C	X	C				E			X	E
2-ETHYLHEXYL ACETATE	E			E		X	X	X				E				X
2-OCTANONE	G			X		X	X	X				E				X
3-BROMOPROPENE	X			X		X	X	X				E				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	C	E	E			X	X
ACETIC ACID, GLACIAL	G	E	G	C	E	X	X	G	X	C	G	E			X	X
ACETIC ACID-10%	E	E	E	E	X	B	B	X	E	F	B	E			X	E
ACETIC ACID-50%	E	E	E	E	C	X	C	C	C	X		G			X	G
ACETIC ANHYDRIDE	G	E	G	E	C	C	G	X	X	X	G	E			X	X
ACETIC OXIDE	G		B	E		X	X	X			B	E			X	X
ACETONE	E	G	E	X	C	C	X	X	E	C	B	E			X	X
ACETONE CYANOHYDRIN	E			C		C	B	E			E	E			X	X
ACETONITRILE	E		E	G		B	E	C			E	E			X	X
ACETOPHENONE	G		E	X		X	X	X		X	E	F	X	X	X	X

Chemical Charts

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
ACETYL ACETONE	E	G	E	X		X	X	X	X	X	E	E	E	X	X	E
ACETYL CHLORIDE	X	E	C		X	X	X	X	X	X	C	E	E	X	X	E
ACETYL OXIDE	E	E	G			C	E	X	E		E	E	E			E
ACETYLENE	E	G	E	X	G	C	E	E		C	E	E		G	X	E
ACETYLENE DICHLORIDE	C		C	X		X	X	X			E	E				E
ACETYLENE TETRACHLORIDE	X		X	X		X	X	X			E	E				E
ACROLEIN	E		E	G		G	C	C		C		E	X	X		E
ACRYLIC ACID		E														
ACRYLONITRILE	X	E	X	C		C	E		E	C		E	C	X		C
ADIPIC ACID			E				E	E				E			E	
AIR, +300F	G		G	G		X	G			X	E		X	C		
ALK-TRI	X			X		X	X	X				E	E	E	E	E
ALLYL ALCOHOL	X		E	X		X	E	E				E	E	E	E	E
ALLYL BROMIDE				X		X						E	G	G	G	G
ALLYL CHLORIDE		G		X		X		G		G		E	G	G	G	G
ALUM	E	E	E	E		E	E	E	G			E	E	E	E	E
ALUMINUM ACETATE (AQ)	G	E	E			E	E	E	X	X		E	E		X	X
ALUMINUM CHLORIDE (AQ)-40%	G	C				E	E	E	X			E	E			E
ALUMINUM FLUORIDE	E		E	E		E	E	E	G	E		E	E		C	E
ALUMINUM FORMATE	G		X			X						E	E		E	E
ALUMINUM HYDROXIDE	E		E	G		E	E	E	G	G		E	E	G		E
ALUMINUM NITRATE (AQ)	E	E	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	C	E	E	E	E	G		E
AMINES-MIXED	G		G	X	G	G		X		G				X	X	
AMINO XYLENE			C												C	
AMINO BENZENE		G							C							
AMINODIMETHYLBENZENE	G	C														
AMINOETHANE	G		E	C		C	X	X	G	C		E		X	X	
AMMONIUM CARBONATE (AQ)	E		E	G		E	E	G				E	E	E	E	E
AMMONIUM CHLORIDE (AQ)	E	G	E	G	E	E	E	G		E	E	E	E	G	E	E
AMMONIUM HYDROXIDE	E	E	E	E	G	E	E	E	G	E		E	E	X	E	E
AMMONIUM NITRATE (AQ)	E	E	E	E		E	E	E	E	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	G		E	E	E	G	E		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		E
AMYL ACETONE	G		E	X		X						E	E		X	E
AMYL ALCOHOL	E	E	E	E	E	E	E	G	E	E	E	E	E	X	E	E
AMYL AMINE	G		C			C						E	E			
AMYL BROMIDE												E	E			
AMYL CHLORIDE	X	C	X	X		X	X		E	X		E	E	C	G	G
AMYL ETHER				C				C				E	E			
ANETHOL	X	X		X		X			G			E	G			G
ANILINE	E	G	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									E	E	X	C	E
ANIMAL FATS	C		E	C	G		G	E	E	X	E	E	E	C	E	E
ANTIMONY CHLORIDES	E		E	G		X	X					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	E	X	X	X	E	X	X	E	G	G	E	G
ASTM FUEL C	X	C	X	X	E	X	X	E	E	X	X	E	G	E	E	G
ASTM OIL NO. 2	X	E	X	X	E	X	G	E	E	X	X	E	E	G	E	E
ASTM OIL NO. 3	X		X	X	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
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	E	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		G		E	E	E	E	E
BEER	E		E	E		E	G	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	E	E
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	G	X	G	E
BENZENE CARBOXYLIC ACID	E		X	X		E	E	X				E	E	X	E	E
BENZINE	X		X	X		X	C	X	G	X		E	E	C	E	E
BENZOIC ACID	X					X	E	C	E	X		E	E		E	E
BENZOL		C	X		C			X	G			E	G		G	
BENZOTRICHLORIDE												E	G			G
BENZYL ACETATE	E		G	G		X	X	X	C	X	X	E	E		X	E
BENZYL ALCOHOL	X	X	X	X	C	X	X	X		X	X	E	E	X	E	E
BENZYL CHLORIDE	X		X	X		X	X	X		X		E	E		E	E
BENZYL ETHER	G		C	X		X	X	X		X		E	E	G	X	
BIS (2-CLOROETHYL) ETHER	X			X		X	X	X		X		E	E			
BLACK SULFATE LIQUOR	G	C	G	G	G	G	G	G	C	G		E	E	X	E	G
BLEACH (2-15%)	G		E	E	G	X	X	X	C	X		E	E	X	E	E
BORAX SOLUTION	E	G	E	E	E	E	E	E	G	G		E	E	E	E	E
BORIC ACID	E		E	E	E	E	E	E	G	E		E	E	E	E	E
BRAKE FLUID (HD-557) 12 DAYS	G	E	E	G	G	E	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	

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
BROMOETHANE	X		X	X		C	X	G		X		E		X	E	F
BROMOTOLUENE	X	X		X		X				X		E			E	E
BUGDIOXANE																E
BUNKER OIL	X		X	X		X	X	E		X		E		G	E	E
BUTADIENE	X		X	X		X	X	X		X		E		X	E	E
BUTANE	X		X	X	E	X	C	E	E	X		E		X	E	E
BUTANOIC ACID			X	C								E			E	E
BUTANOL (BUTYL ALCOHOL)	G	G	G	E	G	E	E	E	G	E	G	E		X	E	E
BUTANONE	E	G	E	X	E			X	G		X	E		X	E	E
BUTOXYETHANOL	E		E	X		X	X	C				E		E		E
BUTYL ACETATE	X	C	X	X	C	X	X	X	G	X		X		X	X	E
BUTYL ACRYLATE	X		X	X		X	X	X				E		E	X	E
BUTYL ALCOHOL	G	G	G	E	G	E	E	E	G	E	G	E		E	X	E
BUTYL ALDEHYDE	G		G	C		E	C					E		C	X	E
BUTYL BENZYL PHTHALATE	E			X		X				X		E			C	E
BUTYL CARBITOL	E		E	X		X	C	X		X		E			C	C
BUTYL CELLOSOLVE	E			X		X	X	C		X	E	E			X	E
BUTYL CHLORIDE	C			X		X						E		C	X	E
BUTYL ETHER	X		X	X		X	X	X		X		E		G	X	E
BUTYL ETHER ACETALDEHYDE	G			X		X			X			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
BUTYL PHTHALATE	G		E	X		X				X		E			C	E
BUTYL STEARATE	X		X	X		X	X	G		X		E		E		E
BUTYLENE	X		X	X	G	X	C	E	G	X		E		G	C	E
BUTYRALDEHYDE	G		C			X	X	X		X				X	X	E
BUTYRIC ACID	G			C		X	X	X		X		E		E	G	
BUTYRIC ANHYDRIDE	C			G		C		C				E				E
CADMIUM ACETATE	E			E		X						E				E
CALCIUM ACETATE	E			C		E	G	G		X		E		X	X	E
CALCIUM ALUMINATE	E			E		E		E				E			E	E
CALCIUM BICHROMATE	E			C								E				G
CALCIUM BISULFIDE			X		G		C	E	G	G		E		C	E	E
CALCIUM CHLORIDE	E	G	E	E	E	E	E	E	G	E		E		E	E	E
CALCIUM HYDROXIDE	E	G	E	G	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	C
CALCIUM NITRATE	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
CAPRIC ACID	C			G		C		C				E		E		E
CARBAMIDE	G			E		E	G	G				E				E
CARBITOL	E		G	X		X	C	G	E	G		E		E	G	E
CARBOLIC ACID (PHENOL)	G	G	X	X		X	X	X	X	X	X	E		X	X	E
CARBON DIOXIDE	G		G	G		G	G	E	E	G		E		E	G	E
CARBON DISULFIDE	X		X	X		X	X	X	X	X		E		X	X	C
CARBON MONOXIDE	E	G	E	E	E	C	E	E	E	G	E	E		E	E	E
CARBON TETRACHLORIDE	X	C	X	X	X	X	X	C	X	X	X	E		G	X	E
CARBONIC ACID	E	X	E	E	X	E	E	G	G	G		E		X	E	E
CASTOR OIL	G	G	E	E	C	E	E	E	G	E		E		E	E	E
CAUSTIC SODA (SEE SODIUM HYDROXIDE)	E		E		C		E		G			E		E	G	
CELLOSOLVE ACETATE	G		G	X		X	X	X	G	X		E		E	X	E
CELLUGUARD	E		E	X		E	E	E	G	E		E		E	E	
CETYLIC ACID	G	G	G	C	E	E	E	E	C	E	E			E	E	
CHINA WOOD OIL (TUNG OIL)	X	C	X	C	E	G	X	E	G	X		E		C	E	
CHLORDANE	X		X	E	C	X	C	E	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	C	X	X	X		E		X	X	
CHLOROACETIC ACID	G		G	G	X	X	X	X	X	X	X	E		E	X	E
CHLOROACETONE	X		E	X		X	C	X	X	X		E		X	X	E
CHLOROBENZENE, MONO, DI, TRI	X		X	X	X	X	X	X	E	X	X	E		E	X	A
CHLOROBUTANE	C			X		X		X				E		G	C	E
CHLOROETHYLBENZENE	X	X	X	X		X			X	X		E		E	E	E
CHLOROFORM	X	X	X	X	X	X	X	X	X	X	X	E		E	X	E
CHLOROPENTANE	C			X		X			X	X		E		E	E	E
CHLOROSULFONIC ACID	X	X	X	X	X	X	X	X	X	X	X	E		X	X	X
CHLOROTOLUENE	X		X	X		X	X	X		X		E		G	X	E
CHLOROX	G		G	G		X	G	G		X		E		G	X	G
CHROME PLATING SOLUTIONS	X		X	X		X	X	X	X	X		E		X	X	E
CHROMIC ACID	G	X	X	X	X	X	X	X	X	X	X	E		X	E	E
CHROMIUM TRIOXIDE	G	X	X	X	X	X	X	X	X	X	X	E		X	E	E
CINNAMENE	X		X	X	X	X	X	X		X		E		C	G	
CIS-9-OCTADECENOIC ACID	X	X	C	G	E	X	C	E	E	X		E		E	E	E
CITRIC ACID	E	X	E	E	G	E	E	E	E	E		E		E	C	E
COAL OIL	X		X	C		X	G	E	E			E		C	E	E
COAL TAR	X		X	X	X	X	X	G		X		E		C	E	E
COAL TAR NAPHTHA	X		X	X		X		X		X		E		X	E	E
COCONUT OIL	G		G	C		X	C	E		X		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	E	X		E		X	E	E
COPPER CHLORIDE	E	X	E	G	E	G	E	E	C			E		E	E	E
COPPER CYANIDE	E		E	G		E	E	E	G	E		E		E	E	E
COPPER HYDRATE	E			G		C		G		G		E			C	E
COPPER HYDROXIDE	E			G		C		G		G		E			C	E
COPPER SULFATE	E	X	E	E	E	G		E	G	X		E		E	E	E
CORN OIL	G		X	E		X		E	G	X		E		E	E	E
COTTONSEED OIL	C	G	C	G	E	X	C	G	E	X		E		E	E	E
CREOSOTE	X		X	X		X	X	G	X	X		E		E	E	E
CRESOLS	X		X	X	X	X	X	X	X	X	X	E		X	E	E
CRESYLIC ACID	X		X	X		X	X	X	X	X		E		X	G	E
CROTONALDEHYDE	E		E	X		X	X	X	X	X		E		X	X	E
CRUDE OIL			X			X	X	G	E	X		E		X	E	E

Acid & Chemical
Air & Multi-Purpose
Fire Suppression
Food Handling
Made To Order
Material Handling
Petroleum Dispenser
Petroleum Transport
Petroleum LP Gas
Oil Field
Special Applications
Steam
Water
Welding
Couplings & Equipment
Safety & Tech Data
Chemical Charts

Chemical charts

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
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		E	E
CUPRIC NITRATE	E		E	E		G	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	X	G	G	X	X	E	E	E	E	E
CYCLOHEXANONE	X		C	X		X	X	X	G	X	X	E	E		X	E
CYCLOPENTANE	X		X	X		X	X	E	G			E	E		X	E
CYCLOPENTANOL	X			X		X	X	G		X		E	E		G	E
CYCLOPENTANONE	X			X		X	X	G		X		E	E		G	E
CYCLOPENTYL ALCOHOL	X			X		X	X	G		X		E	E		G	E
DDT IN DEIONIZED KEROSENE	X		X	X		X	X	E		X		E	E		G	E
DECAHYDRONAPHTHALENE	X		X	X		X	X	X	E	G	X	E		X	E	E
DECAHYDROXNAPHTHALENE		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	E
DECYL ALDEHYDE	C			X		X						E	E		X	E
DECYL BUTYL PHTHALATE	E			X		X		X				E	E		X	E
DECYL CARBINOL	E			E		E		E				E	E		G	E
"DETERGENT, WATER SOLUTION"	E		E		G	E	G	E		G		E	E		G	E
DEVELOPING FLUID (PHOTO)	G		E	E	X	E	E	E		G		E	E		G	E
DEXTRON	X		X	X		X	X	X		X		E	E		G	E
DI(2ETHYLHEXYL) ADIPATE	E		X	X		X	X	X				E	E		E	C
DI(2ETHYLHEXYL) PHTHALATE	G		G	X	E	X	X	X	E	X		E	E	X	X	C
DIACETONE ALCOHOL	E		E	X	C	X	X	X		X		E	E	X	X	C
DIACETYLMETHANE	E	G	E	X		X	X	X		X	E	E	E	X	X	
DIALLYLPHTHALATE		G														
DIAMMONIUM PHOSPHATE	E	E	E	E		E	E	E		E		E			E	
DIAMYL NAPHTHALENE	E			X		X						E			C	E
DIAMYL PHENOL	X			X		X		X		X		E			X	E
DIAMYLAMINE	E		E	C		G		G		X		E			X	E
DIAMYLENE	X			X		X		C		X		E			E	E
DIBENZYL ETHER	G		C	X		X	X	X	G	X		E	E	G	X	E
DIBROMOBENZENE	X			X		X						E	G		E	E
DIBROMOMETHANE	X		C	X		X	X	X			X	E	E		E	E
DIBUTYL ETHER	X		X	X		X	X	X		X		E	E	X	X	E
DIBUTYL PHTHALATE	C		E	X	G	X	X	X	E	X		E	E	X	X	E
DIBUTYL SEBACATE	G		G	X	G	X	X	X		X		E	E	X	X	E
DIBUTYLAMINE	X		X	E		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	G	C	G	E	X	E		E	E	G
DICHLORO ETHYLENE	C		X	X	X		X		C		X	E		E	C	X
DICHLOROACETIC ACID	C			X		G						E	E	C	C	E
DICHLOROBUTANE	X		C	X		X	X	G	X	X		E	E	X	E	G
DICHLOROETHANE	C	X	X	X	X	X	X	X	C	X	X	E	E	X	G	E
DICHLOROETHYL ETHER	X			X		X		X		X		E	E		E	E
DICHLOROHXANE	X			X		X		X				E	E		E	E
DICHLOROMETHANE	X		C	X	X	X	G	X	C	X	X	E	E		E	G
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	X	C	G	X	C	E	E	X	X	E	E	C	E	C
DIETHANOLAMINE	E		E	C	X	G			G	X		E	E		E	
DIETHYL ETHER	X		X	X	C	X	X	X	E	X	E	E	E	E	X	
DIETHYL KETONE	G		E	X		X	X	X				E	E		X	E
DIETHYL OXALATE	X		X	X		X	X	X				E	E		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		E		X	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	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		E	E		E	E	C	E	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		X		E	E		C	C
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	E	G	X	E
DIISOPROPYL KETONE	E		E	X		X	X	X		X		E	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		X				E	E		X	
DIMETHYL SULFIDE	C					X		X				E	E		X	
DIMETHYLAMINE	G		X	X		X	X	X		X		E	E	X	X	E
DIMETHYLANILINE	X	C	G	X		X	X	X		X		E	E	X	X	E
DIMETHYLBENZENE	X	C	X	X	X	X	X	X	G	X	X	E	E	X	X	E
DIMETHYLBUTANE		G														
DIMETHYLCARBINOL	E		G	E		E	E	G				E	E	E	E	E
DIMETHYLKETONE	E		G	E	C	E	X	X	E	C	E	E	E	X	X	C
DI-OCTYL ADIPATE	E		G	X		X	X	X		X		E	E		C	G
DI-OCTYL PHTHALATE	G		G	X	E	X	X	X	E	X		E	E	X	X	E
DIOXALANES	X		G	X		X	X	X		X		E	E	X	X	E

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
DIOXANE	G		G	X		X	X	X	E	X		E	E	X	X	E
DIPENTENE	X		X	X		X	X	G		X		E	E	X	X	E
DIPENTYLAMINE	E		X	C		X	X	G		X		E	E	X	X	E
DI-P-MENTHA-1,8-DIENE	X		X	X		X	X	G		X		E	E	X	X	E
DIPROPYLAMINE	E			C		X	X	G				E	E			E
DIPROPYLENE GLYCOL	E		E	E		E		E				E	E	E	E	E
DISODIUM PHOSPHATE	E		E	E		E		E				E	E	E	E	E
DIVINYL BENZENE	X			X		X			X			E	E	E	E	E
DOWELL INHIBITOR		G														
DOWFAX 2A1 SOLVENT		E														
DOWFAX 2A1 TA		E														
DOWFAX 6A1 SOLVENT		E														
DOWFAX 6A1 TA		E														
"DOWTHERM, A AND E"	X	X	X	X	G	X	X	X	X	X		C	E	X	E	E
DRY CLEANING FLUIDS	X		X	X		X	X	C		X		E		X	E	E
DUCGKIRIOEBAANE	X															
DURO AW16, 31			X					E	E			E				
DURO FR-HD			X					E	E			E				
EHTYL BUTYL ACETATE	E			G		X	X	X				E			X	E
EHTYL DICHLORIDE	C		C	X		X	X	X		X		E		X	G	E
EHTYLENE DIBROMIDE	X		C	X		X	X	X		X		E		G	X	G
ETHANOIC ACID	G	E	E	C	C	E	X	E	C	X	E	E		X	X	E
ETHANOL (GRAIN ALCOHOL)	E	E	E	E		X	E	E	C	X	E	E		X	X	E
ETHANOLAMINE	G		C	X		G	X	G		X		E		E	C	X
ETHERS	X	G	G	X	X	X	X	X	E	X		E		X	X	X
ETHYL ACETATE	G	G	E	X	C	X	X	X	E	X	E	E		E	X	C
ETHYL ACETOACETATE	G		G	X		C	X	X		X		E		E	X	E
ETHYL ACETONE	G		G	X		X	X	X		X		E		E	X	E
ETHYL ACRYLATE	G		G	X		X	X	X		X		E		E	X	E
ETHYL ALCOHOL	E	G	E	E	E	E	X	E	X	E	E	E		X	X	E
ETHYL ALDEHYDE	G		E	C		X	X	X				E		E	C	X
ETHYL ALUMINUM DICHLORIDE	X			X		X	X	X				E		E	X	E
ETHYL BENZENE	X		X	X		X	X	X		X		E		E	X	E
ETHYL BROMIDE	X		X	X		C	X	G		X		E		E	E	E
ETHYL BUTANOL	E			E		E		E				E		E	E	E
ETHYL BUTYL KETONE	G			X		X	X	X				E		E	X	E
ETHYL CELLULOSE	G		G	G	G	G	G	G	C	G	X	E		E	G	E
ETHYL CHLORIDE	E	X	E	C	X	C	X	E	E	E		E		E	C	E
ETHYL DIISOBUTYLTHIO-CARBAMATE				C		E						E		E	E	E
ETHYL ETHER	X	G	X	X		X	X	X	E	E		E		E	C	X
ETHYL FORMATE	G		G	G		X	G	X		X		E		E	E	E
ETHYL IODIDE	C		C	X		X	X	X				E		E	E	E
ETHYL OXALATE	X		C	X		C	X	X		X		E		E	E	E
ETHYL PHTHALATE	E			X		X	X	X				E		E	E	E
ETHYL SILICATE	E		E	G		G	E	E		G		E		E	X	E
ETHYLAMINE	G		E	C		C	X	X		C		E		E	X	X
ETHYLENE CHLOROXYDRIN	G		G	C		C	G	X				E		E	E	E
ETHYLENE DIAMINE	E		E	C		C	E	G		G	X	E		E	X	X
ETHYLENE DICHLORIDE	C	X	X	X	X	X	X	X	C	X	X	E		E	X	G
ETHYLENE G. MONOETHYL E ACETATE	E		E	C		C	X	C				E		E	X	X
ETHYLENE G. MONOBUTYL ETHER				C		X	C	C		X		E		E	X	X
ETHYLENE G. MONOHEXYL ETHER	E		G	G		X	E	C		E		E		E	X	E
ETHYLENE G. MONOMETHYL ETHER	E		E	E		E	E	E		E		E		E	X	E
ETHYLENE GLYCOL	E	G	E	E	E	E	E	E	E	E	E	E		E	G	X
ETHYLENE OXIDE	X	X	C	X		E	X	X	E	X		E		E	X	X
FATTY ACIDS	X		X	C	G	X	G	E	E	X	X	E		E	C	E
FERRIC BROMIDE	E			E		E	E	E				E		E	E	E
FERRIC CHLORIDE	E	X	E	E	G	E	E	E	C	E		E		E	E	E
FERRIC NITRATE	E		E	E		E	E	E	E	E		E		E	E	E
FERRIC SULFATE	E	X	E	E	E	E	E	E	E	E		E		E	E	E
FERROUS ACETATE	E			E		X		X				E		E	X	E
FERROUS CHLORIDE	G		E	G	E	E	G	E	E	E		E		E	E	E
FERROUS SULFATE	E		E	E	E	E	E	E	E	E		E		E	E	E
FLOUROSILIC ACID	E		E	E		E	E	E				E		E	C	C
FLUOBORIC ACID	G		E	E		E	E	E		E		E		E	C	G
FLUORINE	X		E	X	X	X	X	X	X	X		G		X	X	E
FORMALDEHYDE	E	G	E	G	C		G	C	E	E	E	E		E	X	E
FORMALIN	E		E	G	C		G	C	E	E	E	E		E	X	E
FORMIC ACID	E	X	E	E	C	C	E	C	X	E	E	E		E	X	X
FREON 113	X		X	E	C	X	E	E	X	G	X	E		E	G	G
FREON 12	C	C	C	E	E	C	E	E	G	E	X	E		E	G	C
FREON 22	X	C	E	E	X	C	E	X	G	E	X	E		X	C	C
FREON 502	E		E	E		E	E	E	E	E		E		E	G	E
FUEL A (ASTM)	X	E	X	G	E	X	G	E	E	X	X	E		G	G	E
FUEL B (ASTM)	X	G	X	X	E	X	X	X	E	X	X	E		G	G	E
FUEL OIL	X	E	X	C	G	X	G	E	G	X		E		E	C	E
FURALDEHYDE	E	E	X	C	G	X	C	X	C	X		E		E	X	X
FURAN	X		G	X		X	X	X		X		E		E	X	X
FURFURAL	E	E	G	C	G	X	C	X	C	X		E		E	X	X
FURFURAN	X		X	X		X	X	X		X		E		E	X	C
FURFURYL ALCOHOL	G		G	X	G	X	X	X	G	X	E	E		E	X	C
GALLIC ACID	G		G	E	X	E	E	G	G	G		E		E	X	E
GALLOTANNIC ACID	G		E	E		E	E	E	E	E		E		E	X	E
GAS, 100 OCTANE	X		X	X	E	X	C	E	G	X	X	E		C	C	G
GAS, COAL			E		G			X	E			E		E	E	E
GASOLINE	X	E	X	X	E	X	X	E	G	X		E		G	C	G
GLACIAL ACRYLIC ACID																
GLUCONIC ACID	C			G		X		C				E		E		E
GLUCOSE	E		E	E		E	E	E	G	E		E		E		E
GLYCERINE	E	E	E	E		E	E	E	G	E		E		C	C	E
GLYCEROL	E	E	E	E		E	E	E	G	E		E		C	C	E

Acid & Chemical

Air & Multi-Purpose

Fire Suppression

Food Handling

Made To Order

Material Handling

Petroleum Dispenser

Petroleum Transport

Petroleum LP Gas

Oil Field

Special Applications

Steam

Water

Welding

Couplings & Equipment

Safety & Tech Data

Chemical Charts

Chemical Charts

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
GLYCOGENIC ACID	C			G		X		C				E				
GLYCOLS	C		E	G	C	X	E	C	G	E	G	E	E	X	E	E
GLYCONIC ACID	E			E		X		E				E				
GLYCYL ALCOHOL	E	E	E	E	E	E	E	E	G	E	X	E		C	E	G
GREASE, PETROLEUM BASE	X	E	X	X	E	X	E	E	E	X	X	E	E	E	E	E
GREEN SULFATE LIQUOR	E		E	G	X	G	G	G	X	G		E	E	E	E	E
HALON 1211							E	E								
HELIUM	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	
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	E
HEXANOL	X		G	E	E	E	E	E	E	X		E	G	X	E	E
HEXENE	X		X	G		X	G	G		X		E	E	G	E	E
HEXYL ALCOHOL	C		G	G		E	G	G		E		E	E	X	G	E
HEXYL METHYL KETONE	G			X		X		X				E			X	E
HEXYLAMINE	G			C		C		C				E			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		E	G	X	X	G	G	X	G		E	E		E	E
HYDROBROMIC ACID	E	X	E	E		E	X	X	X	X		E	E		E	C
HYDROCHLORIC ACID	E	X	C	E	C	C	C	C	C	C		E	E	X	E	E
HYDROCYANIC ACID	G	X	E	E	X	G	G	G	X	G		E	E	X	E	C
HYDROFLUORIC ACID	G	X	C	E	X	C	C	C	X	C		E	E	X	E	C
HYDROFLUOSILICIC ACID	E	X	E	E	G	E	G	G	X	G		E	G	C	E	C
HYDROGEN CHLORIDE ANHYDROUS																
HYDROGEN DIOXIDE (10%)	C		G	G		G	X	C				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	E	C		E	G	E	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	E		X	X	X				E		C	C	E
HYDROXYISOBUTYRONITRILE		E														
HYDROXYTOLUENE		E														
HYVAR XL			E													
IMINODI-2-PROPANOL		E														
IMINODIETHANOL		E														
IODINE	G		G	G		X	X	X	E	G		E	G	X	X	C
IODINE PENTAFLUORIDE	X		X	X		X	X	X		X		E	C	X	X	C
IODOFORM			X			X	X	E		X						
ISOBUTANAL		G														
ISOBUTYLAMINE	E			C		C		X				E			X	
ISOBUTYLBROMIDE	X			X		X		X				E			E	
ISOBUTYLCARBINOL	E		E	E		E	E	E						C	G	E
ISOCYANATES																
ISOCTANE	X	E	X	G		X	G	E	G	E	X	E	E	G	G	E
ISOPROPYL ACETATE	G		G	X	C	X	X	X	X	X	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	G		X		E	E	E	X	E
JET FUELS	X		X	X		X	X	E	C	X	X	E	E	C	E	E
JP-4 OIL	X		X	X		X	X	E	C	X	X	E	E	C	E	E
KEROSENE	X	G	X	X	E	X	C	E	E	X	X	E	E	G	E	E
KETONES	G	G	E	C	X	C	X	X	E	G	X	E	E	X	X	G
LACQUER SOLVENTS	X	C	X	C	C	X	X	X	E	E	X	E	E	X	X	E
LACTIC ACID - COLD	E	X	E	E	X	E	E	E	E	E		E	E	G	E	E
LACTIC ACID - HOT																
LARD	C		X	C	C	X	X	X	X	X		E	E	C	E	C
LAVENDER OIL	X		X	X	G	X	G	E	E	X		E	G	X	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
LEAD SULFATE	E		E	E	G	E	E	E	G			E	E	E	E	E
LIME	E		E	E	G	E	E	E	G			E		G	E	E
LIME BLEACH	E		E	E		E	E	E				E		E	E	E
LIME SULFUR, WET	E		C	G		C	E	E		E		E	E	E	E	E
LIMONENE	X		X	X		X	X	X				E			E	E
LINOLEIC ACID	X		X	X		X	C	E		X		E		E	E	E
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		E	E	E	E	E
LYE SOLUTIONS	E	C	E	E	C	E	E	C		G		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	E	G	E	E	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
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	E
MALIC ACID	X		X	G		E	G	E		G		E	E	E	E	E
MANGANESE SULFATE	G		E	E		G	E	E				E	E	E	E	E
MAPP			G				E	E								
MERCURY	E	G	E	E	E	E	E	E	E	G		E	E	E	E	E
MERCURY VAPORS	E		E	E	E	C	C	X		E				E	E	E
MESITYL OXIDE	C		E	X		X	E	X		E				X	X	E
METHALLYL ALCOHOL	E		G	E		E	E	E		X				G	E	E

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
METHALLYL CHLORIDE			C													
METHANE CARBOXYLIC ACID							SEE ACETIC ACID		X							
METHANOIC ACID	E	X	E	E	C	C	E	C	X	E	E	E	E	X	X	C
METHANOL (METHYL ALCOHOL)	E	G	E	E	E	E	E	E	G	E	E	E	E	X	X	C
METHANOL (WOOD ALCOHOL)	E	G	E	E	E	E	E	E	G	E	E	E	E	X	X	C
METHOXY ETHANOL			E													
METHOXYETHOXY ETHANOL			E													
METHYL 1-2,4-PENTANEDIOL			E													
METHYL ACETATE	G			C	C	X	X	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			E			E	E	E				E	E			
METHYL ALCOHOL	E	G		E	E	E	E	E	G	G	E	E	E	X	C	E
METHYL ALLYL ALCOHOL	E					E	E	E				E	E		C	E
METHYL ALLYL CHLORIDE	F	C		X		X	X	X		X		E	E		G	G
METHYL AMYL CARBINOL	E			E		E	E	E				E	E		G	E
METHYL BENZENE	X	C	X	X	C	X	X	X	E	X	X	E	E	X	X	E
METHYL BROMIDE	C		C	X	X	X	X	G	E	X	X	E	E	X	X	E
METHYL BUTANE	X		X	X		X	X	E				E	E	X	X	E
METHYL BUTANOL	E	E	E	E	E	E	E	E	E	G	E	E	E	X	X	E
METHYL BUTYL KETONE	E		E	X		X	X	X		X		E	E	X	X	E
METHYL CARBITOL	E			E		X	X	C				E	E			E
METHYL CELLOSOLVE	G		G	C		X	G	C		X		E	E	X	X	E
METHYL CHLORIDE	X	C	X	X	X	X	X	X	C	X	X	E	E	X	X	E
METHYL CYANIDE	E		E	G		G	X	C				E	E			X
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	E		G	E
METHYL ISOAMYL KETONE		C										E	E			
METHYL METHACRYLATE	C		X	X		X	X	X	C	X	C	E	E	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					X	X	X				E	E		G	
METHYL STYRENE		C										E	E			
METHYL SULFIDE	C			X		X	X	X				E	E			
METHYL TERTIARY BUTYL ETHER	G	X				X	X	X		X		E	G		X	
METHYL-1-PROPANOL	E		E	E		E	E	G		E		E		X	E	E
METHYL-2-BUTANOL	E	E		E		E	E			E		E		X	F	E
METHYL-2-BUTANONE	G	X	C	X	X	X	X	X	E	X		E		X	X	E
METHYL-2-HEXANONE	G	C		X		X	X	X		X		E		X	X	E
METHYL-2-PENTANONE	E		E	E		G	E	G				E			C	
METHYL-2-PENTANONE	C	X	G	X	X	X	X	X	G	X	X	E		X	X	
METHYL-2-PROPEN-1-OL	E		E	E		G	E	G				E			C	
METHYL-3-PENTEN-1-ONE		C										E				
METHYL-4-ISOPROPYL BENZENE		C										E				
METHYLALLYL ACETATE	E			G		X		X				E			X	E
METHYLAMYL ALCOHOL	E		E	E		G	E	G				E	E		C	E
METHYLCYCLOHEXANE	X			X		X	X	X				E	E		G	G
METHYLENE BROMIDE	X		X	X		X	X	X				E	E	G	C	G
METHYLENE CHLORIDE	X		C	X	X	X	X	X	C	X	X	E	E	X	G	G
METHYLETHYL KETONE	E	G	E	X	E	X	X	X	G	X	C	E	E	X	X	E
METHYLHEXYL KETONE	G			X		X	X	X				E	E		X	E
METHYLISOBUTYL CARBINOL	E		E	E		G	E	G				E	E		C	E
METHYLISOBUTYL KETONE	C	X	G	X	X	X	X	X	G	X	X	E	E	E	X	X
METHYLISOPROPYL KETONE	G	X	C	X	X	X	X	X	E	X		E	E	X	X	E
METHYLLACTONITRILE	E			C		C	B	X				E	E	X	X	X
METHYLPHENOL	X		X	C		X	X	X				E	E	X	E	
METHYLPROPYL CARBINOL	E			E		E	E	E				E	E		G	X
METHYLPROPYL KETONE	G		G	X	X	X	X	X		X		E	E		X	E
MIL-A-6091	E		E	E		E	E	G		E		E		X	E	E
MIL-E-9500	E		E	E		E	E	E		E		E		X	E	E
MIL-F-16884	X		X	C		X	C	E		X				C	E	E
MIL-F-17111	X		X	X		X	G	E		X				C	E	E
MIL-F-25558B	X		X	G		X	G	E		X				C	E	E
MIL-F-25576C	X		X	C		X	C	E		X				C	E	E
MIL-F-7024A	X		X	X		X	X	E		X				C	E	E
MIL-G-10924B	X		X	G		X	X	E		X				G	E	E
MIL-G-25013D	X		X	G		X	G	E		X				C	E	E
MIL-G-25537A	X		X	G		X	G	E		X				C	E	E
MIL-G-4343B	C		C	G		C	G	E		C				E	E	E
MIL-G-5572	X		X	X		X	X	E		X				E	E	E
MIL-G-7711A	X		X	X		X	X	E		X				E	E	E
MIL-H-13910B	G		E	G		G	G	G		X				E	E	E
MIL-H-19457B	E		E	X		X	X	X		X				X	C	E
MIL-H-22251	E		E	G		X	G	G		X				X	E	E
MIL-H-27601A	X		X	C		X	G	G		X				C	E	E
MIL-H-5606B	X		C	G		X	G	E		X				G	E	E
MIL-H-6083C	X		X	G		C	G	E		X				G	E	E
MIL-H-8446B	X		X	C		X	G	G		X				C	E	E
MIL-J-5161F	X		X	X		X	X	E		X				C	E	E
MIL-J-5624G (JP-3, JP-4, JP-5)	X		X	X		X	X	E		X				C	E	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				E	E	
MIL-L-25681C	E		E	G		G	G	G		G				C	E	E
MIL-L-3150A	X		X	G		X	G	E		X				C	E	E
MIL-L-3545B	X		X	C		C	G	E		X				C	E	E
MIL-L-4339C	X		X	X		X	X	E		X				C	E	E
MIL-L-6082C	X		X	G		X	X	E		X				X	E	E
MIL-L-6085A	X		X	X		X	X	G		X				C	E	E

Acid & Chemical
Air & Multi-Purpose
Fire Suppression
Food Handling
Made To Order
Material Handling
Petroleum Dispenser
Petroleum Transport
Petroleum LP Gas
Oil Field
Special Applications
Steam
Water
Welding
Couplings & Equipment
Safety & Tech Data
Chemical Charts

Chemical Charts

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
MIL-L-7870A	X		X	X		X	G	E		X				X	E	
MIL-L-9000F	X		X	X		X	G	E		X				X	E	
MIL-L-9236B	X		X	C		X	G	E		X				X	E	
MIL-O-5606																
MIL-O-7808	X		X	X		X	X	E		X		E		X	E	
MIL-P-27402	E		E	G			G	G		G						
MIL-S-3136B TYPE 1 FUEL	X		X	X		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				G	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	E		X	E	E		X				G	E	
MIL-S-81087	E		E	E		E	E	E		E				E	E	
MINERAL OIL	X	G	X	E	E	X	E	E	E	X	X	E	E	E	E	E
MINERAL SPIRITS	X		X	E	E	X	E	E		X				E	E	E
MOBILE HFA			X					E	E							
MOLTEN SULFUR	G		E			G	E	E								
MONOBUTYL ETHER	X		X	X		X	C	C		X			X	G	X	X
MONO-CHLOROACETIC ACID	G	X	C	X	X	C	X	X	X	X	X			X	X	E
MONOCHLOROBENZENE	X		X	X	C	X	X	X	G	X	X		G	X	E	G
MONOCHLORODIFLUOROMETHANE	X	C	E	E	X	C	E	X		E	X			X	X	C
MONOETHANOL AMINE	G		G	E		G	G	X		G				E	X	X
MONOETHYL AMINE	G		E	C		C	C	X		C				X	X	C
MONOMETHYLAMINE	C		E	C		C	C	X		X				X	X	C
MORPHOLINE			X				X	X	X							
MOTOR OIL			X	G	G		G	E	G				E	G	E	E
MTBE	G	X					X	X	X	X			E	E	X	E
MURIATIC ACID	C		C	C	C	C	C	C	X					C	X	E
NA-K			X					X								
NAPHTHA	X	E	X	X	E	X	X	E	E	G	X			C	E	E
NAPHTHALENE	X	C	X	X	C	X	X	X	G	X	C			E	E	E
NAPHTHENIC ACIDS		E	X	X		X	X	X	X	X				E	E	E
N-BUTANAL	G		G	C		X	C	X						C	X	
N-BUTYLAMINE	X		C	X		X	X	X		X				X	X	
N-BUTYLBENZENE				X		X	X	X							E	E
N-BUTYLBROMIDE	X			X		X	X	X						G	G	G
N-BUTYLBUTYRATE	E		E	X		X	X	X		X				E	E	G
N-BUTYLCARBINOL	E	E	E	E	E	E	E	E	E	E				X		
NEOHXANE	X			X		X	E	E		E				E	E	E
NEON GAS	E		E	E		E	E	E	E	E				E	E	E
NEU-TRI	X			X		X	X	X						E	E	E
NICKEL ACETATE	E		E	X		E	G	G		X				E	E	E
NICKEL CHLORIDE	E	X	E	E	C	E	E	E	C	E				X	C	E
NICKEL NITRATE	E		E	E		E	E	E						E	E	E
NICKEL SULFATE	E	X	E	E	C	G	E	E	C	G				E	E	E
NIETYLENE						E										
NITRIC ACID, 10%	E	X	E	G	C	X	X	X	C	X		E		E	X	X
NITRIC ACID, 13N	X	X	X	X	X	X	X	X	X	X				E	X	X
NITRIC ACID, 13N + 5%	X	X	X	X	X	X	X	X	X	X				E	X	X
NITRIC ACID, 20%	G	X	E	G	X	X	X	X	X	X				E	X	C
NITRIC ACID, 30%	C	X	G	C	X	X	X	X	X	X				E	X	C
NITRIC ACID, 30% - 70%	X	X	X	X	X	X	X	X	X	X				E	X	C
NITRIC ACID, CONC (16N)	X	X	X	X	X	X	X	X	X	X	X			E	X	C
NITRIC ACID, RED FUMING	C	X	X	X	X	X	X	X	X	X	X			E	X	C
NITRILOTRIETHANOL	G		E	E	X	G	X	C		G				E	X	X
NITROBENZENE	G	C	X	X	X	X	X	X	C	X				E	X	C
NITROETHANE	G		G	C		G	C	X		G	E			E	X	E
NITROGEN	E		E	E		E	E	E						E	E	E
NITROMETHANE	G		G	C		G	X	X		C				E	X	E
NITROUS OXIDE GAS	E		E	E		E	E	E	C					E	X	E
N-NONYL ALCOHOL	E			E		E	E	E						E	E	E
N-OCTANE	X		X	X		X	C	E		X				G	X	E
NONANOIC ACID	E			X		X	E	E						E	E	G
NONANOL	E			E		E	E	E						E	E	C
N-SERV (75% XYLENE)								E	E					E		
NUTO H			X					X	E					E		
NYVAC LIGHT			E											E		
O-AMINOTOLUENE		G														
OCTANOIC ACID	C			G		C	G							E		
OCTANOL	G		E	G		G	G			G				E	X	E
OCTYL ACETATE	E			E		X	G	X						E	X	E
OCTYL ALCOHOL	G			G		X	G	X		G				E	X	E
OCTYL ALDEHYDE	C			X		X	X	X						E	X	E
OCTYL AMINE	E			C		C	C	C						E	X	E
OCTYL CARBINOL	E			E		E	E	E						E	X	E
OCTYLENE GLYCOL	E			E		E	E	E						E	X	E
OIL-PETROLEUM	X		X	G	E	X	G	E	G	X	C			E	E	E
OLEIC ACID	X	X	C	G	E	X	C	E	E	X				E	E	E
OLEUM (FUMING SULFURIC ACID)	X	X	X	X	X	X	X	X	X	X				E	X	E
OLIVE OIL	G		G	G		X	G	E		X				E	E	X
ORTHO-DICHLOROBENZENE	X		X	X	X	X	X	X	E	X	X			X	E	E
ORTHO-DICHLOROBENZOL	X		X	X	X	X	X	X	E	X	X			X	E	E
ORTHOXYLENE	X	C	X	X	C	X	X	X	G	X	X			E	X	E
OXALIC ACID	E	X	E	E	X	C	G	G	G	G				E	E	C
OXYDIETHANOL																
OZONE	G		E	E	C	X	C	X	C	X				E	E	C
PAINT THINNER	X		X	X		X	X	X	C	X				E	E	E
PALMITIC ACID	G		G	C	E	E	E	E	C	B				E	E	G
PAPERMAKERS ALUM	E			E		E	E	E						E	E	E
PARA METHOXYPROPENYL BENZENE	X	X		X		X	X							E	E	G
PARA-DICHLOROBENZENE	X		X	X		X	X	X		X				E	E	G
PARAFFIN WAX	X		X	X		X	G	E		E				E	E	X
PARALDEHYDE	E		E	X		C	C	X						E	E	E
PARAXYLENE	X		X	X		X	X	C						C	E	E

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE	Acid & Chemical
PCB	X	X	X	X		X	X	X		X		E	E	X	E	E	Air & Multi-Purpose
P-CYMENE	X			X		X	X	X				E			E	E	
PELARGONIC ALCOHOL	X			X		X	X	X				E			E	E	
PENTACHLOROETHANE																	Fire Suppression
PENTADIONE		G															
PENTAMETHYLENE	X		X	X	G	X	E	G	G	X		E	G	C	E	G	
PENTANE	X		X	C		X	C	E				E			E		Food Handling
PENTANOL	E		E	E		E	E	E				E		C	E	E	
PENTANONE	E		E	E		E	E	E				E			E	E	
PENTASOL	E		E	E		E	E	E		G		E		X	X	E	Made To Order
PENTYL ACETATE	G		E	X	C	X	X	X	G	X	X	E		X	X		
PENTYL ALCOHOL	E	E	E	E	E	E	E	E	E	E	E			X	E		
PENTYL BROMIDE																	Material Handling
PENTYL CHLORIDE	X	C	X	X		X	X		E	X				C		G	
PENTYL ETHER				C				C									
PENTYLAMINE	G		X	C		C	X	C							X	E	Petroleum Dispenser
PERCHLORIC ACID-2N	G		G	G	X	X	G	X	X	X	X			X	E	E	
PERCHLOROETHYLENE	X	C	X	X	X	X	X	C	C	X	X		G	X	E	E	
PERCHLOROMETHANE	X																Petroleum Transport
PETROLEUM CRUDE	X		X	G	C	X	G	E	G	X			E	E	E	E	
PETROLEUM ETHER	X		X	X	X	X	C	E	E	X			E	G	E	E	
PETROLEUM OILS	X	G	X	G	E	X	G	E	G	X	C		E	G	E	E	Special Applications
PHENBO													E	X	X	E	
PHENOL	G			X	X	X	X	X	X	X	X	E	E	X	E	E	
PHENOLSULFONIC ACID	C			X	X	X	X	X	X	X	X	E	E	G	G	X	Water
PHENYLAMINE	E		G	X		X	X	X									
PHENYLBROMIDE	X		X	X		X	X	X						X	E		
PHENYLBUTANE		C															Welding
PHENYLCHLORIDE	X		X	X		X	X	X						X	E	E	
PHENYLETHYLENE	X		X	X	X	X	X	X		X				C	E	E	
PHENYLMETHANE	X		X	X	X	X	X	X						X	E	E	Couplings & Equipment
PHENYLMETHANOL	G		G	G	C	X	X	X	C	X	X		E	X	E	E	
PHENYLMETHYL ACETATE	E		E	G		X	X	X					E	X	C	E	
PHOSPAHTE ESTERS	E	G	E	X	C	X	X	X	E	X	E			X	E	E	Safety & Tech Data
PHOSPHORIC ACID 10%	G	X	E	E		E	E	E	E	G	E		E	E	E	E	
PHOSPHORIC ACID 10% - 85%	G	X	E	E	X	G	E	X	C	G			E	C	E	E	
PHOSPHORUS TRICHLORIDE ACID	E		E	X		X	X	X	X	X							Chemical Charts
PICRIC ACID, H2O SOLUTION	C	X	C	X	X	C	C	C	X	X	X			G	E	E	
PINE OIL	X		X	X		X	X	G	X	X			E	E	E	E	
PINENE	X		X	X		X	X	G	X	X			E	E	E	E	
POLY CHLORINATED BIPHENOL																	Steam
POLYETHYLENE GLYCOL E-400	E	E		E		E	G		G	E			E		E	E	
POLYOL ESTER					X									X	E	E	
POLYPROPYLENE GLYCOL	E			E		E		E	G						E	E	Oil Field
POTASSIUM ACETATE	E		E	C		E	G	G	G	X			E	X	C	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	Petroleum LP Gas
POTASSIUM CARBONATE	E		E	E	X	E	E	E	C	E			E	E	E	E	
POTASSIUM CHLORIDE	E	G	E	E	G	E	E	E	E	E			E	E	E	E	
POTASSIUM CHROMATE	G		E	C		G	E	E	G	G			E	G	E	G	Water
POTASSIUM CYANIDE	E	G	E	E	G	E	G	E	E	E			E	E	E	E	
POTASSIUM DICHROMATE	E	X	E	E		C	E	E	G	G			E	G	E	E	
POTASSIUM HYDRATE	E		E	E		G	G	G	G	G			E	G	E	E	Special Applications
POTASSIUM HYDROXIDE	G	X	E	E	C	G	G	G	G	G	G		G	C	G	E	
POTASSIUM NITRATE	E		E	E	G	E	E	E	G	E			E	E	E	E	
POTASSIUM PERMANGANATE, 5%	E		E	G	X	E	E	C	X	G			E	X	E	E	Safety & Tech Data
POTASSIUM SILICATE	E		E	E		E	E	E	G	E			E	E	E	E	
POTASSIUM SULFATE	E		E	E	G	E	E	E	E	G			E	E	E	E	
POTASSIUM SULFIDE	E		E	E		G	E	E	E	G			E	E	E	E	Couplings & Equipment
POTASSIUM SULFITE	E		E	E		G	E	E	E	G			E	E	E	E	
PRESTONE ANTIFREEZE	E	G	E	E	G	E	E	E	G	E				X	E	E	
PRODUCER GAS	X		X	E		X	C	E	E	X				X	E	E	Steam
PROPANEDIOL	C		E	E		E	E	E	E	E				E	E	E	
PROPANETRIOL	E	E	E	E	E	E	E	E	G	E	X			C	E	E	
PROPANOL	E		E	E		E	E	E						X	E	E	Water
PROPANOLAMINE		E															
PROPANONE	E	G	E	X	C	C	X	X	E	C	E			X	X	E	
PROPEN-1-OL	E		E	E		E	E	E					E				Welding
PROPENEDIAMENE		E															
PROPENITRILE	X					G	X	X									
PROPENYL ALCOHOL	E		E	E		X	E	E					E		G	E	Couplings & Equipment
PROPENYLANISOLE	X			X		X	X	X					E		G	E	
PROPIONIC ACID	E		E	G		E	C	C		X				X	X	E	
PROPIONITRILE	E		E	E		E	G	X			X				X	E	Safety & Tech Data
PROPYL ACETATE	E		E	X		X	X	X		X			E	X	X	E	
PROPYL ALCOHOL	E		E	E		E	E	E		E	E		E	X	E	E	
PROPYL ALDEHYDE	G			X		C		X					E		X	E	Couplings & Equipment
PROPYL BENZENE		C											E			E	
PROPYL CHLORIDE	C			X		X		X					E		G	E	
PROPYL ETHER		E															Safety & Tech Data
PROPYL NITRATE	G		G	X		X	X	X		X				X	X		
PROPYLENE	X		X	X		X	X	X		X				X	E		
PROPYLENE DIAMINE	E			C		G	E	G									Safety & Tech Data
PROPYLENE GLYCOL	C		E	E		E	C	E		E			E	G	E	E	
PYDRAUL 'E' SERIES	G		G	X	G	X	X	X	G	X			E	X	E	E	
PYDRAULIC 'C'	X		X	X	C	X	X	X	E	X	E			X	E	E	Chemical Charts
QUINTOLUBRIC 822 SERIES	X		X	X		X	X	G						X	E	E	
RED OIL	X	X	C	G	E	X	X	E	E	X				G	E	E	
REFRIGERANT 11	X	C	X	E	E	X	X	G	E	X				C	E	C	Chemical Charts
REFRIGERANT 12	C	C	C	E	E	C	E	E	G	E	X			E	C	C	
REFRIGERANT 22	X	C	E	E	X	C	E	X	G	E	X			X	C	C	
RESORCINOL			G	X		X	X	X	X	G	X			X	E	E	Chemical Charts
SAE NO. 10 OIL	X	G	X	X	E	X	C	E	E	X	X			X	E	E	

Chemical Charts

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
SAL AMMONIAC	E	G	E	E	E	E	E	E	C	E	E	E	E	G	E	E
SEA WATER	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SEWAGE	G		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SILICATE ESTERS	C		X	E	E	E	E	E	E	E	E	E	E	E	E	E
SILICATE OF SODA	E		E	E	E	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	E	E
SILICONE OIL	E		E	E	E	E	E	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	E
SKYDROL 500 TYPE 2	G	G	E	X	G	E	X	X	E	X	E	E	E	X	X	E
SKYDROL 500B	G	G	E	X	E	E	X	X	E	E	E	E	E	C	X	E
SKYDROL 500C	G	G	E	X	E	E	X	X	E	E	E	E	E	X	X	E
SKYDROL 7000 TYPE 2	E	G	E	X	X	X	X	X	E	X	E	E	E	X	X	E
SOAP SOLUTIONS	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODA ASH	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODA LIME	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODA NITER	E	G	E	E	G	G	G	G	E	G	E	E	E	G	E	E
SODA, CAUSTIC	E	C	E	E	C	G	E	G	G	E	C	E	E	G	X	E
SODIUM ACETATE	E		E	E	C	E	E	G	G	X	E	E	E	X	X	E
SODIUM ALUMINATE	E		E	E	E	E	E	E	G	G	E	E	E	E	E	E
SODIUM BICARBONATE	E		E	E	G	E	E	E	E	E	E	E	E	E	E	E
SODIUM BISULFATE	E	X	E	E	C	E	E	E	C	E	E	E	E	E	E	E
SODIUM BISULFITE	E		E	E	E	E	E	E	E	G	E	E	E	E	E	C
SODIUM BORATE	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM CARBONATE 10% - 15%	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM CHLORIDE	G	G	E	E	E	E	E	E	E	E	C	E	E	E	E	E
SODIUM CYANIDE	E	G	E	E	G	E	E	E	E	E	E	E	E	E	E	E
SODIUM DICHROMATE	E		C	E	G	X	C	E	G	G	E	E	E	G	C	E
SODIUM HYDRATE	E		E	E	E	E	E	E	G	G	E	E	E	E	E	E
SODIUM HYDROCHLORITE	E		E	E	E	C	C	C	G	G	E	E	E	C	C	E
SODIUM HYDROXIDE (CAUSTIC SODA)	E	C	E	E	C	E	E	C	C	G	C	E	E	C	C	E
SODIUM HYPOCHLORITE	G	X	E	E	C	X	C	X	X	C	C	E	E	C	C	E
SODIUM METAPHOSPHATE	G		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM NITRATE	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM PERBORATE	E	X	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM PEROXIDE	E	X	E	E	E	E	E	E	X	E	E	E	E	X	E	E
SODIUM PHOSPHATE	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM SILICATE	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM SULFATE	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM SULFIDE	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM SULFITE	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SODIUM THIOSULFATE	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
SOYBEAN OIL	C	G	X	E	E	X	E	E	E	X	E	E	E	E	E	E
STANNIC CHLORIDE	E	X	E	E	E	E	E	E	E	E	E	E	E	E	E	E
STANNIC SULFIDE	E		E	E	E	E	E	E	E	E	E	E	E	E	E	E
STANNOUS CHLORIDE	E		C	E	E	E	E	E	C	E	E	E	E	C	E	E
STANNOUS SULFIDE	E		E	E	E	E	E	E	E	E	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	X	E	E	E	C	G	E
SULFAMIC ACID	E		X	E	E	E	E	E	C	E	E	E	E	X	E	C
SULFUR	F		F	C	X	X	X	X	X	X	E	E	E	E	G	X
SULFUR CHLORIDE	X	G	X	F	C	X	C	C	C	X	E	E	E	C	E	E
SULFUR DIOXIDE	G		E	C	X	C	X	X	X	C	E	E	E	E	E	C
SULFUR TRIOXIDE, DRY	G		E	C	X	C	X	X	X	X	E	E	E	G	E	E
SULFURIC ACID 60% (200F)	X	X	X	X	X	X	X	X	X	X	E	E	E	X	C	X
SULFURIC ACID, 25%	G	X	E	E	E	E	E	E	X	G	E	E	E	X	E	E
SULFURIC ACID, 25% - 50%	G	X	E	E	E	E	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	E	X	E	E
SULFURIC ACID, CONC. TO 98%	X	X	X	X	X	X	X	X	X	X	E	E	E	X	G	E
SULFURIC ACID, FUMING	X	X	X	X	X	X	X	X	X	X	E	E	E	X	G	X
SULFUROUS ACID, 10%	E	X	E	E	C	G	G	C	C	C	E	E	E	E	E	E
SULFUROUS ACID, 10% - 85%	E	X	G	E	C	G	C	C	X	C	E	E	E	X	E	E
SUTAN																
TALL OIL	X		X	C		X	C	E		X	E	E	E	E	E	C
TALLOW	G		E	C		C	G	E		X	E	E	E	E	E	C
TANNIC ACID	E	X	E	E	G	E	E	E	G	E	E	E	E	E	E	E
TAR, BITUMINOUS	X	G	X	C	G	C	C	G	G	X	E	E	E	E	E	E
TAR, CAMPHOR	X	C	X	X	C	X	X	X	G	X	E	E	E	E	E	E
TARTARIC ACID	G	X	C	E	G	E	E	E	E	E	E	E	E	E	E	E
T-BUTYL AMINE			G	X												
TELONE 2	C	E	C	X		X	X	G		X		E	G	G	E	E
TERPINOL	G		G	X		G	G	G		G		E	E	X	E	E
TERTIARY BUTYL ALCOHOL			G	X												
TERTIARY BUTYL AMINE			X	X		X	X	X		X		E		X	E	
TERTIARY BUTYL MERCAPTAN	X		X	X		X	X	X		X		E		E	E	
TETRACHLOROBENZENE	X		X	X		X	X	X		X		E		G	E	G
TETRACHLOROETHANE	X		X	X		X	X	X		X	C	E	C	X	E	E
TETRACHLOROETHYLENE	X		X	X		X	X	X	C	X		E	C	X	E	E
TETRACHLOROMETHANE	X		X	X		X	X	X		X		E		E	E	E
TETRACHLORONAPHTHALENE	X		X	X		X	X	X		X		E		E	E	E
TETRAETHYLENE GLYCOL	E			E		E	E	E				E		E	E	E
TETRAETHYLORTHOSILICATE	E					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	E	E	E
TITANIUM TETRACHLORIDE	X		X	X		X	X	C		X		E	G	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	E
TOLUOL	X	C	X	X	C	X	X	X	E	X	X	E	E	X	E	E
TRANSFORMER OIL	X		X	C		X	G	E		X		E	E	E	E	E
TRANSMISSION 'A' OIL	X		X	E	G	X	G	E	G	X		E	E	E	E	F
TRI (2-HYDROXYETHYL) AMINE	G		E	E	X	E	X	C		G		E	E	X	X	
TRIBUTYL AMINE	E			C		G	G	G				E				

Chemical or Material Conveyed	BUTYL	CPE	EPDM	HYPALON	HYTREL	NATURAL	NEOPRENE	NITRILE	NYLON	SBR	SANTOPRENE	TEFLON	UHMW	URETHANE	VITON	XLPE
TRIBUTYL PHOSPHATE	G		E	X	C	C	X	X	G	X		E	E	X	X	E
TRICHLOROACETIC ACID	X		X	X	X	X	X	X	X	X		E	E	X	X	E
TRICHLOROBENZENE	X		X	X	X	X	X	X	X	X		E	E	X	X	E
TRICHLOROETHANE	X	C	X	X	X	X	X	X	C	X	X	E	G	X	X	E
TRICHLOROETHYLENE	X		X	X	X	X	X	X	C	X	X	E		X	X	E
TRICHLOROMETHANE	X	X	X	X	X	X	X	X	C	X	X	E		X	X	E
TRICHLOROTOLUENE	X		X	X	X	X	X	X	C	X	X	E		X	X	E
TRICRESYL PHOSPHATE	E		E	X	C	C	C	X	G	X		E	E	X	E	E
TRIETHANOLAMINE	G		E	E	X	G	X	X		G		E	E	X	X	E
TRIETHYLAMINE	C		E	E	X	G	G	E		X		E	E	X	X	E
TRIETHYLENE GLYCOL	E		E	E	E	E	E	E		X		E		X	E	
TRIHIDROXYBENZOIC ACID	G		G	G	X	E	G	E	G	G		E		X	E	
TRIMETHYL PENTANES (MIXED)	X		X	C	E	X	C	E	E	X	X	E		X	E	
TRIMETHYL PENTENE		E	E													
TRIMETHYLAMINE		E	E									E	E			E
TRISODIUM PHOSPHATE	E		E	E	E	E	E	E	E	E		E		E	E	E
TRITOYL PHOSPHATE	E		E	X	C	X	X	X	G	X		E		X	E	
TUNG OIL	X	C	X	E	G	X	E	E	G	X		E	E	E	E	E
TUNG OIL (CHINA OIL)	C	C	X	E	G	X	E	E	G	X		E	E	E	E	E
TURPENTINEX	X	G	X	X	X	X	X	X	E	X	X	E	E	E	E	E
UDMH	E		E	E	E	E	G	G		X		E		X	X	
UNDECYL ALCOHOL	E			E	E	E	E	E				E		X	X	
UREA	E		E	E	G	E	G	E	E			E	E	G	E	E
URETHANE FORMULATIONS									E				E	G	E	E
URIC ACID					X				E		E			X		
VARNISH	X	C	X	X	X	X	X	G	E	X		E		C	E	E
VEGETABLE OILS	C		C	G		X	C	E	F	X		E	E	E	E	E
VERSILUBE F44	E		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	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		X	C	E
VINYL ETHER	X			G		X		G				E	E		X	E
VINYL STYRENE	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	E			E				
VM&P NAPHTHA	X		X	X		X	C	C				E		E	E	X
WATER	E	G	E	E	E	E	G	E	E	G	E	E	E	E	E	X
WATER, BOILING	E		E	E	E	E	G	E	E	G	E	E	X	E	E	X
WATER, SODA											E	E	E	E	E	
WEMCO C	X		X	X		X	G	E		X				E	E	
WHISKEY	E		E	E	G	E	E	E	E	E		E	X	E	E	X
WHITE OIL	X		X	X	X	X	G	E		X		E	E	E	E	X
WHITE PINE OIL	X		X	X	X	X	G	E		X		E	E	E	E	X
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	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	E	C	E	G
XYLIDINE	G		C	X		X	X	C		X	X	E	E	E	C	G
ZEOLITES	E		E	E		E	E	E		E		E	E	E	E	E
ZINC ACETATE	E		E	C		E	G	G		X		E		X	C	E
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	E	E	E
ZINC CHROMATE	E		E	E	C	E	E	E	E	E		E	E	E	E	E
ZINC SULFATE	E	X	E	E	C	E	E	E	X	G		E	E	G	E	E

Acid & Chemical

Air & Multi-Purpose

Fire Suppression

Food Handling

Made To Order

Material Handling

Petroleum Dispenser

Petroleum Transport

Petroleum LP Gas

Oil Field

Special Applications

Steam

Water

Welding

Couplings & Equipment

Safety & Tech Data

Chemical Charts

DYNAFLEX® PVC Hose Chemical Resistance Chart

Key:

- A = Satisfactory
- C = Questionable—Suggest Testing
- U = Unsatisfactory
- (Blank) = No Data

Chemical	Concentration	Temperature		Chemical	Concentration	Temperature	
		68°F	140°F			68°F	140°F
Acetate Solvents		U	U	Fluorine		U	U
Acetic Acid	10%	A	C	Formaldehyde	40%	U	U
Acetic Acid	Glacial	C	U	Formic Acid	40%	A	A
Acetone		U	U	Formic Acid	50%	C	U
Acrylonitrile		A	C	Formic Acid	100%	U	U
Adipic Acid		A	C	Fuel Oil		–	–
Alcohol Butyl		A	C	Glacial Acetic Acid		C	U
Alcohol Ethyl		A	C	Glucose		A	A
Alcohol Isopropyl		A	C	Glycerine		A	A
Alcohol Methyl		A	C	Grape Sugar		A	A
Aluminum Acetate		A	–	Grease		–	–
Aluminum Chloride		A	A	Heptane		C	U
Aluminum Hydroxide		A	–	Hexane		C	U
Aluminum Sulfate		A	A	Hydrobromic Acid		A	A
Allyl Chloride		–	–	Hydrochloric Acid	10%	A	A
Ammonia	0.88 S.G.	A	A	Hydrochloric Acid	40%	A	U
Ammonia	Aqueous	U	U	Hydrofluoric Acid	10%	A	C
Ammonia	Dry Gas	U	U	Hydrofluoric Acid	40%	A	U
Ammonia	Liquid	U	U	Hydrofluoroboric Acid		A	A
Ammonium Chloride		A	A	Hydrofluosilicic Acid		A	A
Ammonium Hydroxide		A	–	Hydrogen Peroxide		A	–
Animal Oils		–	–	Hydrogen Sulphide		A	–
Amyl Acetate		U	U	Iso-octan		A	C
Aniline Oils		–	–	Isopropyl Acetate		U	U
Aromatic Hydrocarbons		U	U	Kerosene		C	C
Asphalt		U	U	Ketones		U	U
ASTM Fuel A		C	C	Lactic Acid	10%	A	–
ASTM Fuel B		U	U	Lactic Acid	100%	U	U
ASTM #1 Oil		–	–	Lacquer Solvents		U	U
ASTM #3 Oil		–	–	Linseed Oil		–	–
Barium Chloride		A	A	Lubricating Oils		–	–
Barium Hydroxide		A	A	Magnesium Chloride		A	A
Barium Sulfide		A	A	Magnesium Hydroxide		A	A
Benzene		U	U	Magnesium Sulphate		A	A
Benzine		C	C	Malic Acid		A	A
Bordeaux Mixture		A	A	Methyl Acetate		U	U
Borax		A	A	Methyl Bromide		U	U
Boric Acid		A	A	Methyl Ethyl Ketone		U	U
Brine		A	A	Methylene Chloride		U	U
Bromine Traces		U	U	Mineral Oils		–	–
Butyl Acetate		U	U	Monochlorobenzene		U	U
Calcium Hydroxide		A	A	Naptha		C	U
Calcium Hypochlorite		A	A	Napthalene		U	U
Carbonic Acid		C	U	Natural Gas*		U	U
Carbon Dioxide		A	A	Nitric Acid	10%	A	A
Carbon Disulphite		U	U	Nitric Acid	40%	A	C
Carbon Monoxide		A	A	Nitric Acid	70%	U	U
Carbon Tetrachloride		U	U	Nitrobenzene		U	U
Casein		A	C	Nitrogen Fertilizers		A	–
Chlorine	Dry Gas	A	A	Oleic Acid		A	C
Chlorine	Wet Gas	A	A	Oxalic Acid		A	A
Chlorine	Water	U	U	Palmitic Acid		A	A
Chlorobenzene		U	U	Paraffin		A	A
Chlorinated Hydrocarbons		U	U	Pentane		C	U
Chloroform		U	U	Perchloroethylene		U	U
Chromic Acid	10%	A	C	Phenol		C	U
Citric Acid		A	A	Phosphoric Acid		A	A
Coal Tar		U	U	Pitch		A	C
Copper Chloride		A	A	Potassium Hydroxide		A	A
Copper Nitrate		A	A	Propane		A	A
Copper Sulphate		A	A	Sea Water		A	A
Cottonseed Oil		–	–	Sodium Hydroxide (Caustic Soda)	10%	A	A
Creosote		U	U	Sodium Hydroxide (Caustic Soda)	50%	A	U
Cresol		A	C	Sodium Cyanide		A	–
Cresylic Acid		U	U	Soybean Oil		–	–
Cyclohexane		A	C	Stearic Acid		A	A
Cyclohexanone		U	U	Styrene		U	U
DDT Weed Killer		A	C	Sulphur Dioxide	Dry	A	A
Detergent Synthetic		A	A	Sulphur Dioxide	Moist	A	U
Developers Photographic		A	A	Sulphur Dioxide	Liquid	U	U
Dextrin		A	A	Sulphuric Acid	45%	A	A
Dextrose		A	A	Sulphuric Acid	60%	C	C
Dibutyl Phthalate		U	U	Sulphuric Acid	98%	U	U
Dichlorobenzene		U	U	Sulphuric Acid	30%	A	–
Diesel Oil		–	–	Tannic Acid		A	A
Diethylene Glycol		A	A	Tartaric Acid		A	A
Diethyl Ether		U	U	Tetrahydrofuran		U	U
Di-isodecyl Phthalate		U	U	Toluene		U	U
Dicotyl Phthalate		U	U	Trichlorethylene		U	U
Emulsifiers		A	A	Triethanolamine		A	A
Emulsions Photographic		A	A	Tricresyl Phosphate		U	U
Ethyl Acetate		U	U	Turpentine		C	U
Ethylene Dichloride		U	U	Urea		A	A
Ethylene Glycol		A	A	Vinagar		A	A
Fatty Acid		A	A	Vinyl Acetate		U	U
Ferric Chloride		A	A	Vinyl Chloride		U	U
Ferric Sulphate		A	A	Water		A	A
Ferrous Chloride		A	A	Xylene		U	U
Ferrous Sulphate		A	A	Zinc Chloride		A	A
Fixing Solution Photographic		A	A	Zinc Sulphate		A	A

* Refer to Safety & Technical Data.