

CORROSION RESISTANCE CHART

PTP-111A
JAN. 1996

·Self-Priming Centrifugal · End-Suction Centrifugal · Hand Pump · Quick Connect Couplings · Elbows · Strainers

Key to product symbols used in chart heading:

- A** Bung adapter
- B** Bearing housing (on pedestal model centrifugal pumps), adapter plate (between pump & electric motor on centrifugal pumps close coupled to electric motors)
- D** Piston
- E** Elbow and Nozzle for Hose Assembly on Hand Pump
- F** Fasteners, wetted ('pins' in the quick connect couplings)
- G** Gasket
- H** Housing
- I** Impeller
- O** O-rings, check valve, shaft seal bellows
- R** Piston rod (in the hand pump), pump shaft sleeve (in the centrifugal pumps)
- S** Shaft seal
- T** Suction tube
- U** Discharge Hose
- V** Volute
- X** Indicates that entire part is constructed of that material

NOTE: Materials of construction listed for various parts or pumps are those which are available. Materials listed are not necessarily standard. Consult your catalog, in conjunction with our model numbering chart, to determine materials of construction.

Consult the factory for chemical applications involving temperatures greater than 80° F.

NOTE: The following Corrosion Resistance Chart is only to be used as a guide to selecting the proper pump for your specific application. To the best of our knowledge, the information contained herein is correct. However, we do not assume any liability whatsoever for the accuracy or inaccuracy, or the completeness, or incompleteness, of the information contained herein. Final determination of the suitability of any information or material for the use intended, or the manner of use, is the sole responsibility of the user.

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A - Recommended
 C - Not Recommended
 X - Insufficient data
 F - Consult Factory

MATERIALS

PLASTICS ELASTOMERS METALS MECHANICAL SEALS

Ryton (FRP)** Polyester (FRP)** Polypropylene (FRP)** HDPE (High density PE) Noryl (FRP)** PVC HALAR Cross Linked PE UHMW Polyethylene Buna-N EPDM Viton Cork-Nitrile Hastelloy C Titanium 316 Stainless Steel Carbon Ceramic Siliconized Graphite

SEE KEY ON PAGE 1 FOR PRODUCT SYMBOL IDENTIFICATION

PRODUCT

SELF-PRIMING CENTRIFUGAL	H,I,V	H,I,V	H,I		B					O	O	O		S,F	F,R	S,F,R	S	S	S
END-SUCTION CENTRIFUGAL		H,I,V			H,I,V					O	O	O		S,F	F,R	S,F,R	S	S	S
HAND PUMP	H	HTD AE				T,U	A,D,E H	U	T		OG	OG	G				R,F		
QUICK CONNECT COUPLINGS			H							G	G	G					F		
ELBOWS			X																
STRAINERS				X			X												
PLASTIC PIPE NIPPLES							X												
CHEMICAL																			

ACETALDEHYDE	A	A	C	C	X	C	A	A	A	C	A	C	X	A	A	A	A	A	A
ACETIC ACID, 20%	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A
ACETIC ACID, 50%	A	C	X	C	A	C	A	A	A	C	A	C	C	A	A	A	A	A	A
ACETIC ACID, Glacial	A	C	X	C	A	C	A	A	A	C	A	C	C	A	A	A	A	A	A
ACETIC ANHYDRIDE	A	C	A	C	C	C	A*	X	A	C	A	C	X	A	A	A	A	A	A
ACETONE	A	C	A	A	X	C	A	A	A	C	A	C	A	A	A	A	A	A	A
ALCOHOL, AMYL	A	A*	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ALCOHOL, ETHYL	A	A	A	A	A	X	A	A	A	A	A	A	A	A	X	A	A	A	A
ALCOHOL, ISOPROPYL	A	C	A	X	A	A	A	A	A	C	A	C	A	A	A	A	A	A	A
ALCOHOL, METHYL	A	A	A	A	X	A*	A	A	A	A	C	A	C	A	A	A	A	A	A
ALCOHOL, PROPYL	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ALUMINUM CHLORIDE	A	C	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A
ALUMINUM FLUORIDE	A	C	X	A	A	A	A	A	A	A	A	A	A	A	C	C	A	X	A
ALUMINUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIA, 30% (cold)	A	C	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A
AMMONIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM HYDROXIDE "NOTE 1"	A	C	A	A	A	A	A	A	A	C	A	C	C	A*	A	A*	A	A	A
AMMONIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM PERSULFATE	A	A	X	A	A	A	A	A	A	C	A	A	X	A	X	A*	A	A	A
AMMONIUM PHOSPHATE	A	A	X	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A
AMYL ACETATE	A	A	C	C	C	C	A	A	A	C	A	C	X	A	A	A	A	A	A
AMYL CHLORIDE	A	A	X	C	C	C	A	C	C	X	X	A	X	A	X	A*	A	A	A
ANILINE	A	C	C	C	C	C	A*	A	A	C	A	C	X	A	A	A	A	A	A
AQUA REGIA	X	C	X	C	C	C	A	X	C	C	X	A*	X	A	A	C	C	A	C
ARSENIC ACID	A	C	A	A	A	A	A	A	A	A	A	A	A	X	X	A	A	A	A
BARIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A*	A	A	A
BARIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
BEER	A	A	X	A	A	A	A	A	A	C	A	A	X	A	A	A	A	A	A
BENZALDEHYDE	C	A	A	C	C	C	A*	X	A	C	A	C	X	A	A	A	A	A	A
BENZENE (BENZOL)	A*	A*	C	C	C	C	A	A	A	C	C	A	A	A	A	A	A	A	A
BENZOIC ACID	A	A	A	A	A	A	A	A	A	C	X	A	X	A	A*	A	A	A	A
BORAX (SODIUM BORATE)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A
BORIC ACID	A	A	X	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A	A
BROMINE WATER	C	C	C	C	A	A*	A	A*	A	A	C	C	A	X	A	A	C	C	A
BUTYL ACETATE	A	A	A	C	C	C	A	A	A	X	A	C	C	A	X	A	A	A	A
BUTYRIC ACID	A*	C	X	C	A	A	A	A	A	C	A	A	X	A	A*	A	A	A	A
CALCIUM BISULFITE	A	C	X	A	A	A	A	A	A	A	C	A	A	A	A	A*	A	A	A
CALCIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A*	A	A	A
CALCIUM HYPOCHLORITE 20%	A	A	X	A	A	A	A	A	A	A	A	A	A	A	A	A*	A	A	A
CALCIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
CARBON TETRACHLORIDE	A*	A*	C	C	C	A*	A	A	A	C	C	A	A	A	A	A	A	A	A
CARBONIC ACID	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A
CHLOROACETIC ACID	A	C	X	C	C	A	A	A	A	C	A	C	X	A	A	C	A	A	A
CHLORINE WATER	C	C	X	A	A	A	A	A*	A	C	A	A	A	A	A	C	A	A	A

Note 1: aqua ammonia
 *For use in applications where the temperature does not exceed 80° F.
 **FRP = Fiberglass Reinforced Plastic

A - Recommended
 C - Not Recommended
 X - Insufficient data
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MATERIALS

PRODUCT	PLASTICS					ELASTOMERS					METALS			MECHANICAL SEALS						
	RYTON (FRP)**	Polyester (FRP)**	Polypropylene (FRP)**	HDPE (High density PE)	Noryl (FRP)**	PVC	HALAR	Cross Linked PE	UHMW Polyethylene	Buna-N	EPDM	Viton	Cork-Nitrile	Hastelloy C	Titanium	316 Stainless Steel	Carbon	Ceramic	Siliconized Graphite	
SELF-PRIMING CENTRIFUGAL	H,I,V	H,I,V	H,I			B					O	O	O		S,F	F,R	S,F,R	S	S	S
END-SUCTION CENTRIFUGAL		H,I,V				H,I,V					O	O	O		S,F	F,R	S,F,R	S	S	S
HAND PUMP	H	HTD AE					T,U	ADE H	U	T		OG	OG	G				RF		
QUICK CONNECT COUPLINGS			H								G	G	G					F		
ELBOWS			X																	
STRAINERS				X				X												
PLASTIC PIPE NIPPLES							X													
CHEMICAL																				
CHLOROBENZENE	A	C	C	C	C	C	A	A	A	C	C	C	C	A	X	A	X	A	A	A
CHLOROFORM (WET)	A	A*	A	C	C	C	A	A*	A	C	C	C	C	A	X	A	A	A	A	A
CHLOROSULFONIC ACID	C	C	A	C	X	A	A*	A*	A	C	C	C	C	A	C	A	A	C	C	A
CHROMIC ACID, 10%	A	C	A	A	A	A	A	A	A	C	C	C	C	A	C	A	A	A	A*	A
CHROMIC ACID, 50%	A*	C	A	A	C	A	A	A	A	C	C	C	C	A	C	A	A	C	A*	A
CHROMIC ACID, 80%	A*	C	A	A	C	C	A	A	A	C	C	C	C	A	C	A	A	C	A*	A
CITRIC ACID	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
COPPER CHLORIDE	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A*	A
COPPER CYANIDE	A	C	A	A	A	A	A	A	X	A	A	A	A	A	A	A	A	A	A	A
COPPER NITRATE	A	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A	A	A	A	A
COPPER SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
CRESYLIC ACID	X	A	C	C	X	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
ETHYL ACETATE	A	A	A*	C	C	C	A	A	A	X	A	C	C	A	C	A	X	A	A	A
ETHYL CHLORIDE	A	C	C	C	C	C	A	A*	A	A	A	A	A	A	A	A	X	A	A	A
ETHYLENE GLYCOL	A	A	A	A	A	A*	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FATTY ACIDS	X	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
FERRIC CHLORIDE	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A*	A	C	C	A
FERRIC NITRATE	A	A*	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FERRIC SULFATE	A	A*	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FERROUS CHLORIDE	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A	A	A	C	A	A
FERROUS SULFATE	A	A	A	A	A	A	A	A	A	A	X	A	A	X	A	A	A	A	A	A
FLUOBORIC ACID	A	A*	A	A	A	A	A	X	A	A	A	A	A	A	A	A	C	A	A	A
FLUOSILICIC ACID	A	X	A	A	A	A	A	X	A	A	A	A	A	A	A	A	C	A*	A	C
FORMALDEHYDE, 40%	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
FORMIC ACID	A	C	A	A	A	A*	A	A	A	A*	A*	C	A*	C	A*	A	C	A	A	A
FREON 11 (REFR.) (MF)	A*	A*	C	A*	C	C	A	C	A	C	A*	C	A*	C	A*	X	X	C	A	A
FREON 12 (Wet)	A*	A	A	A	C	A*	A	C	A	A	A*	A*	A*	A	X	X	C	A	A	A
FREON 22 (REFR.) (TMS)	A*	A*	C	A*	C	C	A	C	A	C	C	C	C	C	X	X	A*	A	A	A
FREON 113 (REFR.)	A*	A*	C	A*	C	C	A	A	A	A*	C	F	A*	A	A	A	A*	A	A	A
FREON TF (SOLV)	A*	A*	C	A*	C	C	A	A	A	A*	C	F	A*	A	A	A	A	A	A	A
FREON TMC (SOLV)	A*	C	C	X	C	C	A	C	C	C	C	C	A*	C	A	X	A	A	A	A
FUEL OILS	A	A	C	C	C	A	A	A*	A	A	A	C	A	A	A	A	A	A	A	A
FURFURAL	A	A	C	C	C	C	A	A	A	A	C	A	C	X	A	X	A	A	A	A
GASOLINE	A	A	C	C	C	A*	A	A*	A	A	A	C	A	A	A	A	C	A	A	A
GLYCERINE (GLYCEROL)	A	A	A	A	X	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
HEPTANE	A	A	C	C	C	A	A	A	A	A	A	C	A	A	A	A	X	A	A	A
HEXANE	A	A	C	X	C	A*	A	A	C	A	C	A	A	A	A	X	A	A	A	A
HYDROBROMIC ACID, 50%	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A*	C	C	A	A*
HYDROCHLORIC ACID, 0-20%	A	A	A	A	A	A	A	A	A	A	A*	A	A	A	A	A*	C	C	A	A*
HYDROCHLORIC ACID, 20+	A	C	A	A	A	A	A	A	A	C	A	A	A	C	A*	C	C	C	A	A*
HYDROCYANIC ACID	X	A	A	A	A	A	A	A	A	A*	A	A	A	A	A	X	A	A	A*	A
HYDROFLUORIC ACID, 10%	C	C	C	A	C	A*	A	A	A	X	X	A	X	A	X	X	C	C	C	A
HYDROFLUORIC ACID, 30%	C	C	C	A	C	A*	A	A	A	C	A	A	X	A	X	A	C	C	C	A
HYDROFLUORIC ACID 60%	C	C	C	C	C	A	A	A	A	C	A	A	X	A	X	A	C	C	C	A
HYDROFLUOSILICIC ACID 20%	A	C	A	C	A	A	A	A	A	A	A	A	A	A	A	C	A	X	C	A

*For use in applications where the temperature does not exceed 80° F.
 **FRP = Fiberglass Reinforced Plastic

A - Recommended
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MATERIALS

PRODUCT	PLASTICS				ELASTOMERS				METALS			MECHANICAL SEALS								
	RYTON (FRP)**	Polyester (FRP)**	Polypropylene (FRP)**	HDPE (High density PE)	Noryl (FRP)**	PVC	HALAR	Cross Linked PE	UHMW Polyethylene	Buna-N	EPDM	Viton	Cork-Nitrile	Hastelloy C	Titanium	316 Stainless Steel	Carbon	Ceramic	Siliconized Graphite	
SELF-PRIMING CENTRIFUGAL	H,I,V	H,I,V	H,I			B					O	O	O		S,F	F,R	S,F,R	S	S	S
END-SUCTION CENTRIFUGAL		H,I,V				H,I,V					O	O	O		S,F	F,R	S,F,R	S	S	S
HAND PUMP	H	HTD AE				T,U	ADE H	U	T			OG	OG	G				R,F		
QUICK CONNECT COUPLINGS			H								G	G	G					F		
ELBOWS			X																	
STRAINERS				X			X													
PLASTIC PIPE NIPPLES							X													
CHEMICAL																				
HYDROGEN PEROXIDE, 30%	A*	C	A	A	X	A	A	A	A	C	A*	A	A	A	A	A	A*	A	X	A
HYDROGEN PEROXIDE, 50%	C	C	X	A	X	A*	A	A	A	C	A*	A	A	A	A	X	A*	A	X	A
HYDROGEN PEROXIDE, 90%	X	C	X	A	X	C	A	A	A	C	A*	A	A	A	A	X	A*	A	X	A
HYDROGEN SULFIDE, AQ. SOL.	A	A	A	A	A	A	A	A	A	C	A	C	A	A	A	A	A	A	X	A
IODINE (In Alcohol)	C	C	A*	C	A	C	A	A	A	C	X	A	X	A	A	C	C	A	A	A
KEROSENE	A	A	C	C	C	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A
KETONES	A	A	A*	X	C	C	A	X	C	C	A	C	C	X	A	A	A	A	A	A
LACQUER THINNERS	X	C	C	X	C	C	A	A*	C	C	C	C	C	A	A	A	A	A	A	A
LACTIC ACID	A	A*	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
LEAD ACETATE	A	A	A	A	A	A	A	A	A	A*	A	A	A	A	A	A	A	A	A	A
LUBRICATING OIL	A	A	A*	C	X	A*	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MAGNESIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A*	A	A	A
MAGNESIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MAGNESIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MALEIC ACID	X	A	A	A	X	A	A	X	A	X	C	A	C	A	X	A	A	A	A	A
METHYL CHLORIDE	A*	C	C	C	C	C	A	A*	A	C	A	C	X	A	A	A	A	A	A	A
METHYL ETHYL KETONE	A	A	A*	C	C	C	A	C	C	C	C	C	A	C	X	A	A	A	A	A
METHYL ISOBUTYL KETONE	A	A	A*	X	C	C	A	X	C	C	C	C	C	X	A	A	A	A	A	A
METHYLENE CHLORIDE	A*	C	C	C	C	C	C	X	C	C	C	C	C	A	A	A	A	A	A	A
NAPHTHA	A	A	A	C	X	A	A	C	A	A	C	A	A	A	A	A	A	A	A	A
NAPHTHALENE	A	A	C	A	X	C	A	C	A	C	C	A	X	A	A	A	A	A	A	A
NICKEL CHLORIDE	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
NICKEL SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
NITRIC ACID, 10%	A	A*	A	A	A	A	A	A	A	C	A	A	C	A	A	A	A	A*	A	A
NITRIC ACID, 20%	A	C	A	A	A	A	A	A	A	C	A	C	A	C	A	A	A	A*	A	A
NITRIC ACID, 40%	A*	C	A*	A	C	A	A	A	A	C	C	A	C	A	C	A	A	A	C	A
NITRIC ACID, ANHYDR.	C	C	C	C	C	C	A	A	A	C	C	C	C	C	C	A	A	A*	C	A
NITRO BENZENE	A	A	A	C	C	C	A	A	A	C	C	C	C	C	A	A	A	A	A	A
OIL AND FATS	A	A	A	A	C	A	A	X	A	A	C	C	A	A	A	A	A	A	A	A
OLEIC ACID	A	A	A*	A	A	A	A	X	C	A	C	A*	A	A	X	A	A	A	A	A
OLEUM	A*	C	C	C	C	C	A	A	A	C	C	A	X	A	X	A	A	A	A	A
OXALIC ACID	A	C	A	A	A	A	A	A	A	A*	A	A	A*	A	A*	A*	A*	A	A	A
PERCHLOROETHYLENE	A*	A*	C	X	C	C	A	X	C	C	C	C	A	C	A	A	A	A	A	A
PHENOL	A	C	A	X	C	A*	A	A	A	C	C	A	X	A	A	A	A	A	A	A
PHOSPHORIC ACID, 0-80%	A	A*	A	A	A	A	A	A	A	A*	A	A	A	A*	A	A*	A	A	A	A
PHOSPHORIC ACID, 80-100%	A	A*	A	A	A	A	A	A	A	C	A	A	X	A	A	A*	A	A	A	A
POTASSIUM BICARBONATE,	X	A	A	A	A	A	A	X	A	A	X	A	A	A	A	A	A	A	A	A
POTASSIUM BROMIDE	A	A	A	A	A	A	A	A	X	A	A	X	A	A	A	A	A	A	A	A
POTASSIUM CARBONATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM CHLORATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A	A
POTASSIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM CYANIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
POTASSIUM DICHROMATE	A	C	A	A	A	A	A	X	A	A	A	A	A	A	A	A	A	A	C	A*
POTASSIUM HYDROXIDE	A	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A*	A	X	A
POTASSIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

*For use in applications where the temperature does not exceed 80° F.

**FRP = Fiberglass Reinforced Plastic

A - Recommended
 C - Not Recommended
 X - Insufficient data
 F - Consult Factory

MATERIALS

PLASTICS ELASTOMERS METALS MECHANICAL SEALS

SEE KEY ON
 PAGE 1 FOR
 PRODUCT SYMBOL
 IDENTIFICATION

PRODUCT

	PLASTICS			ELASTOMERS					METALS			MECHANICAL SEALS									
	Ryton (FRP)**	Polyester (FRP)**	Polypropylene (FRP)**	HDPE (High density PE)	Noryl (FRP)**	PVC	HALAR	Cross-Linked PE	UHMW Polyethylene	Buna-N	EPDM	Viton	Cork-Nitrile	Hastelloy C	Titanium	316 Stainless Steel	Carbon	Ceramic	Siliconized Graphite		
SELF-PRIMING CENTRIFUGAL	H,I,V	H,I,V	H,I				B					O	O	O		S,F	FR	S,FR	S	S	S
END-SUCTION CENTRIFUGAL		H,I,V					H,I,V					O	O	O		SF	FR	S,FR	S	S	S
HAND PUMP	H	HTD AE					T,U	ADE H	U	T			OG	OG	G			R,F			
QUICK CONNECT COUPLINGS			H										G	G	G			F			
ELBOWS		X																			
STRAINERS					X			X													
PLASTIC PIPE NIPPLES								X													
CHEMICAL																					
POTASSIUM PERMANGANATE	A	C	A	A	A	A	A	A	X	A	A	X	A	A	A	A	A	A	A	A	A
POTASSIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SOAPS (NEUTRAL)	A	A	A	A	A	A	A*	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM ACETATE	A	A	A	A	A	A	A	A	A	A	C	A	C	X	A	A	A	A	A	A	A
SODIUM BICARBONATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM BISULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM BISULFITE	X	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CARBONATE, 10%	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CHLORATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM CYANIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SODIUM HYDROXIDE, 20%	A	C	A	A	A	A	A	A	A	A	A*	A	A	C	A*	A	A	A	A	A	C
SODIUM HYDROXIDE, 50%	A	C	A	A	A	A	A	A	A	A	A*	A	C	A*	A	A	A	A	A	C	A
SODIUM HYPOCHLORITE	A	C	A*	A	A	A	A	X	A	C	A	A	A*	X	A	A	C	C	C	C	A
SODIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A*	A	A	A	A	A	A	A	A	A	A
SODIUM SILICATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A	A
SODIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A	A
SODIUM SULFIDE	A	A	A	A	A	A	A	A	A	C	A	A	X	A	A	A	A	A	A	A	A
STANNIC CHLORIDE	A	C	A	A	A	A	A	A	A	A	A*	A	A	A	A	A	C	A	A	A	A
STEARIC ACID	X	A*	A*	A	X	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
STODDARDS SOLVENT	A	A	X	A	C	C	A	X	A	A	C	A	C	A	A	A	A	A	A	X	A
SULFURIC ACID 0-29%	A	A*	A	A	A	A*	A	A	A	A	C	A*	A	A	A	A*	A*	A*	A	A	A
SULFURIC ACID 30-90%	A*	C	A	A	A	A*	A	A	A*	C	C	A	C	A	C	A	C	C	A	A	A
SULFURIC ACID 91-100%	A*	C	A	X	A	A	A	A	A*	C	C	A*	C	A	C	A	C	F	X	A	A*
TANNIC ACID	A	C	A	A	X	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	A
TANNING LIQUORS	X	X	A	A	X	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
TARTARIC ACID	A	A	A	A	A	A	A	X	A	C	A	A	X	A	A	A	A	A	A	A	A
TETRACHLOROETHANE	X	C	C	X	C	C	X	X	X	C	C	C	C	A	C	A	A*	A	A	A	A
TETRAHYDROFURANE	A	A*	A	C	C	C	C	C	X	C	C	C	C	C	X	A	X	A	A	A	A
TOLUENE (TOLUOL)	A	C	A	C	C	C	A	A	A	C	C	C	C	A	A	A	A	A	A	A	A
(1,1,1) TRICHLOROETHANE	A	C	A	C	C	C	X	A*	X	C	C	A	C	A	C	A	A	A	A	A	A
TRICHLOROETHYLENE	A	C	A	C	C	C	A	A*	A	C	C	A	C	A	C	A	A	A	A	A	A
TRICRESYLPHOSPHATE	X	X	X	A	X	C	C	X	A	C	A	C	A	X	A	X	A	A	A	A	A
TURPENTINE	A	A	C	C	X	A	A	A	A	A	C	A	A	A	A	X	A	A	A	A	A
UREA	A	C	A	A	A	A	A	A	X	A	C	A	A	X	A	A	A	A	A	A	A
VINEGAR	A	A	A	A	A	A	A	A	A	A	C	A	C	A	A	A	A	A	A	A	A
WHITE LIQUOR (ACID)	X	X	X	X	A	A	A	X	C	A	X	A	A	A	A	X	A	A	X	A	A
XYLENE (SYLLO)	A	C	C	C	C	C	A	A	A	C	C	A	A	A	A	X	A	A	A	A	A
ZINC CHLORIDE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A
ZINC SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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