



Official Tech Support  
**CHEMICAL RESISTANCE**  
 CHART

A	EXCELLENT
B	GOOD
C	GOOD TO 72F TO 80F - NOT RECOMMENDED
D	NOT RECOMMENDED
E	SEVERE EFFECT
X	UNKNOWN = NOT RATED

B Customer

peristaltics 400 series  
 all chemtech  
 only

CHEMICAL	PVC	PVDF	GFPL	PE	SAN	TFE	Poly Carbonate	PP	HCO	304 SS	316 SS	ALA (CER)	Hypalon	Viton	Silicon	Fluran	Norprene A-60 G	Neoprene
ALCOHOL, PROPYL	A	X	A	X	X	X	X	A	A	A	A	X	A	A	X	X	X	A
ALIPHATIC HYDROCARBONS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X
ALLYL CHLORIDE	C	A	X	X	X	A	X	X	X	X	B	X	X	X	A	X	X	X
ALUM, AMMONIUM	A	X	A	X	X	X	X	X	X	X	X	X	A	A	X	X	X	A
ALUM, CHROME	A	X	A	X	X	X	X	X	X	X	X	X	A	A	X	X	X	A
ALUM, POTASSIUM	A	X	A	X	X	X	X	X	X	X	X	X	A	A	X	X	X	A
ALUMINUM CHLORIDE	A	A	A	A	A	A	B	A	A	B	D	A	A	A	C	A	A	A
ALUMINUM CHLOROXYDRIDE	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
ALUMINUM CITRATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ALUMINUM FLORIDE	A	A	A	X	A	A	X	X	X	X	C	X	A	A	C	A	A	A
ALUMINUM HYDROXIDE	A	A	A	A	A	A	C	A	B	B	C	A	A	A	B	A	A	A
ALUMINUM NITRATE	B	A	A	X	A	A	B	B	X	A	A	A	A	A	B	A	A	A
ALUMINUM OXYCHLORIDE	A	A	A	B	X	A	X	X	X	X	B	A	A	C	X	X	X	A
ALUMINUM POTASSIUM SULFATE 10%	A	B	A	A	X	A	B	A	C	A	A	A	A	A	X	X	X	A
ALUMINUM POTASSIUM SULFATE 100%	A	X	A	A	X	A	B	A	C	E	B	A	A	A	X	X	X	A
ALUMINUM SALTS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
ALUMINUM SULFATE	A	A	A	A	A	A	A	A	B	B	D	A	A	A	X	A	A	A
ALUMS	A	X	A	X	X	A	X	A	B	X	A	X	A	A	X	X	A	B
AMINES	D	X	B	D	X	A	E	E	B	A	A	A	D	D	C	E	D	B
AMMONIA, 10%	A	A	A	B	A	A	E	B	A	A	A	A	A	A	X	E	X	A
AMMONIA ANHYDROUS	A	A	A	B	A	A	E	A	B	A	A	A	D	D	X	E	B	A
AMMONIA AQUA 10%	A	X	A	X	X	X	X	X	X	X	A	X	X	C	X	X	X	X
AMMONIA AQUEOUS 25%	A	A	X	A	X	A	X	X	X	X	A	X	X	X	X	X	X	X
AMMONIA CONCENTRATED	C	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AMMONIA DRY GAS	X	X	A	X	X	X	X	X	X	X	A	X	X	X	X	X	X	X
AMMONIA GAS	A	X	A	X	X	X	X	X	X	X	A	A	X	C	B	X	A	X
AMMONIA LIQUID	A	A	A	D	X	A	E	B	B	C	A	A	D	D	X	E	X	A
AMMONIA NITRATE	B	A	A	X	X	A	X	A	X	A	A	X	D	D	C	E	X	C
AMMONIUM ACETATE	A	X	A	X	X	A	X	A	X	B	A	X	X	A	X	E	A	A
AMMONIUM BICARBONATE	A	X	A	A	X	A	X	X	X	X	A	A	A	B	C	X	A	X
AMMONIUM BIFLUORIDE	A	A	A	X	X	A	X	A	B	E	B	X	C	A	X	A	X	D
AMMONIUM BISULFIDE	A	B	X	X	X	A	X	X	X	X	B	A	X	A	X	X	A	A
AMMONIUM CARBONATE	A	A	A	A	A	A	X	A	B	B	B	A	X	A	C	A	A	A
AMMONIUM CASEINATE	A	A	A	X	X	A	X	X	X	X	B	A	X	A	X	X	X	B
AMMONIUM CHLORIDE	A	A	A	B	A	A	B	A	E	C	B	A	B	A	C	A	A	A
AMMONIUM DICHROMATE	A	X	X	X	X	A	X	X	X	X	X	X	X	X	C	X	X	A



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ARYL SONFONIC ACID	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X
ASPHALT	B	A	X	X	X	A	E	C	X	B	A	X	C	A	E	X	X	C
AVIATION FUEL (115 - 145 oct)	X	X	X	B	X	X	X	X	X	X	X	X	X	X	E	X	X	X
AVIATION TURBINE FUEL	X	X	X	B	X	X	X	X	X	X	X	X	X	X	E	X	X	X
BARIUM ACETATE	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
BARIUM CARBONATE	A	A	A	B	A	A	B	A	B	C	B	A	X	A	X	A	A	X
BARIUM CHLORIDE	A	A	A	B	A	A	A	A	B	B	C	A	B	B	A	A	A	A
BARIUM CYANIDE	A	A	A	B	X	A	X	E	A	B	A	A	A	A	X	X	X	A
BARIUM HYDROXIDE	A	A	B	B	A	A	E	B	B	C	B	A	A	A	A	A	A	A
BARIUM NITRATE	A	X	A	X	X	A	E	A	X	C	A	X	X	A	B	X	X	A
BARIUM SULFATE	A	A	A	B	A	A	E	C	A	C	B	A	A	A	A	A	A	A
BARIUM SULFITE	A	A	B	X	X	A	X	B	X	C	B	A	A	A	A	X	X	A
BEER	A	A	A	B	A	A	B	B	B	A	A	A	A	A	A	A	A	A
BEET SUGAR LIQUIDS	A	A	A	X	X	A	X	B	X	A	A	X	A	A	A	X	X	A
BENZALDEHYDE	E	A	C	D	E	A	E	E	A	X	A	A	A	E	D	E	E	E
BENZALKONIUM CHLORIDE	A	X	X	X	X	X	X	X	X	X	A	X	X	X	X	X	X	X
BENZENE	C	A	D	D	C	A	E	E	B	B	A	D	A	A	D	E	E	D
BENZENE SULFONIC ACID	A	A	D	B	X	A	E	E	B	B	B	A	A	A	D	E	E	A
BENZOIC ACID	A	A	A	A	C	A	C	C	C	B	B	A	A	E	B	E	D	A
BENZOL	E	A	B	A	X	A	E	B	B	B	A	A	D	A	D	X	X	D
BENZONITRILE	X	X	X	X	X	A	B	X	C	E	D	X	X	X	A	X	X	X
BENZYL CHLORIDE	X	X	C	X	X	A	X	D	C	D	B	A	D	A	D	X	X	D
BISMUTH CARBONATE	A	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X
BLACK LIQUOR	A	X	A	B	X	A	X	X	X	X	X	X	A	A	A	X	A	A
BLEACH 12.5% ACTIVE CL2	A	X	X	B	X	A	X	X	X	X	X	X	X	A	C	X	X	X
BLEACH 5.5% ACTIVE CL2	A	X	C	B	X	A	X	X	X	X	X	X	X	A	C	X	X	X
BLEACHING LIQUORS	A	X	A	B	X	A	X	B	X	X	X	X	A	A	B	A	X	D
BORAX (SODIUM BORATE)	A	A	A	D	X	A	X	B	B	A	A	A	A	B	B	A	A	B
BORIC ACID	A	A	A	A	A	A	A	A	A	C	A	A	A	B	B	A	A	B
BREWERY SLOP	X	X	X	X	X	X	X	X	X	X	A	X	A	X	X	X	X	A
BRINE ACID	A	X	X	A	X	B	X	X	X	X	X	X	X	A	X	X	X	X
BROMIC ACID	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BROMINE GAS	A	A	X	C	X	A	X	X	X	X	E	X	X	A	X	X	X	B
BROMINE LIQUID	C	X	C	X	X	A	D	E	A	E	X	X	D	A	X	X	E	D
BROMINE WATER	C	A	E	D	X	A	X	X	X	X	E	D	A	E	D	E	X	A
BROMOBENZENE	C	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X

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BROMOTOLUENE	C	X	X	C	X	A	X	X	X	X	A	A	B	A	X	X	X	X
BUTADIENE	C	A	C	C	X	A	E	C	C	A	A	A	B	B	D	A	A	B
BUTANE	C	A	A	C	X	A	E	A	A	B	A	A	B	A	D	A	A	A
BUTANEDIOL	B	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BUTANOL, PRIMARY	A	X	X	A	X	A	X	X	X	X	X	X	X	X	B	X	X	B
BUTANOL, SECONDARY	A	X	X	A	X	A	X	X	X	X	X	X	X	X	B	X	X	B
BUTANOL (BUTYL ALCOHOL)	C	A	A	X	X	A	C	B	B	A	A	X	A	A	B	X	X	A
BUTTER	A	X	X	X	X	A	X	X	X	C	A	X	B	A	B	X	X	B
BUTTERMILK	A	B	A	X	X	A	B	B	A	A	A	X	X	A	A	X	X	D
BUTYLENE	A	B	X	X	X	A	X	X	X	X	A	X	X	C	X	X	X	X
BUTYL ACETATE	A	C	A	C	X	A	E	C	A	B	A	X	C	C	E	X	D	C
BUTYL AMINE	D	B	A	X	X	A	E	C	C	X	A	X	X	D	B	X	X	D
BUYYL CELLOSOLVE	A	X	X	X	X	A	X	X	X	X	X	X	X	C	E	X	X	X
BUTYL ETHER	A	A	D	X	X	A	X	E	X	X	A	X	X	D	D	X	X	D
BUTYL PHENOL	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BUTYL PHTHALATE	X	B	B	X	X	A	E	C	C	C	B	X	D	C	A	X	X	D
BUTYL SEARATE	A	X	X	X	X	A	X	X	X	X	X	X	X	A	X	X	X	X
BUTYLACEATE	D	B	B	C	C	A	X	X	X	X	A	X	D	D	D	E	X	D
BUTYLENE	A	A	X	X	X	A	E	X	X	A	A	X	D	A	D	X	X	D
BUTYRIC ACID	D	A	A	X	D	A	E	C	B	C	B	B	A	E	C	E	X	D
BUTYRALDEHYDE	X	X	X	X	X	A	X	X	X	X	A	X	D	D	E	X	X	D
BUYTRIC ACID	A	A	A	B	X	A	X	X	X	X	B	A	C	C	E	X	D	C
CADIMUM CYANIDE	A	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
CADIMUM SALT	X	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CAFFEINE CITRATE	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CALCIUM BISULFATE	A	A	A	B	X	A	E	X	X	X	A	A	A	A	C	X	X	A
CALCIUM BISULFIDE	A	A	A	B	X	A	X	A	A	B	B	X	X	A	C	X	X	A
CALCIUM BISULFITE	A	A	A	A	A	A	E	A	B	B	B	A	A	A	A	A	A	A
CALCIUM CARBONATE	A	A	A	B	A	A	D	A	B	B	B	A	A	A	A	A	A	A
CALCIUM CHLORATE	B	A	A	A	A	A	X	X	X	X	A	A	B	A	X	A	A	A
CALCIUM CHLORIDE	A	A	A	A	A	A	X	B	A	D	C	A	A	A	A	A	A	A
CALCIUM HYDROXIDE	B	A	A	B	A	A	E	B	A	C	B	A	A	A	A	A	A	A
CALCIUM HYPOCHLORITE	A	A	C	A	A	A	X	A	B	D	D	A	A	D	B	A	A	D
CALCIUM NITRATE	A	A	A	A	X	A	B	B	C	D	B	A	A	A	B	A	A	A
CALCIUM OXIDE	B	A	A	X	X	A	X	A	A	A	B	X	A	B	A	A	A	A
CALICUM PHOSPHATE	X	X	X	A	X	A	X	X	X	X	X	X	X	X	A	X	X	X

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CALCIUM SALTS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
CALCIUM SULFATE	A	A	A	A	A	A	B	A	B	B	B	A	A	A	X	A	A	B
CALCIUM SULFITE	A	A	A	X	X	A	X	X	X	X	A	A	A	A	A	X	X	X
CALGON	B	X	X	X	X	A	X	A	X	A	A	X	X	X	A	X	X	A
CAMPBOR CRYSTALS	A	X	X	X	X	A	X	X	X	X	A	A	X	X	X	X	X	X
CAMPBOR OIL	X	X	B	C	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CANE SUGAR LIQUORS	A	X	A	X	X	X	X	X	X	X	X	X	A	A	B	X	X	A
CAPRYLIC ACID	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
CARBITOL	A	X	X	X	X	A	X	X	X	X	X	X	X	A	A	X	X	X
CARBOLIC ACID (PHENOL)	D	A	B	C	A	A	E	B	A	B	B	A	D	A	D	X	X	D
CARBON BISULFIDE	D	C	D	C	X	A	X	E	X	A	A	A	D	A	D	X	X	D
CARBON DIOXIDE	A	A	D	D	X	A	B	E	A	A	B	A	B	B	B	A	A	B
CARBON DISULFIDE	D	D	B	C	A	A	E	E	B	B	B	A	D	A	E	B	E	D
CARBON MONOXIDE	A	X	A	X	X	A	X	A	B	A	A	X	X	A	A	X	A	A
CARBON TETRACHLORIDE	C	A	C	E	X	A	E	E	B	B	B	A	E	A	D	E	E	D
CARBONATED WATER	X	X	X	X	X	X	X	B	X	A	X	X	X	A	X	X	X	A
CARBONIC ACID	A	A	A	X	A	A	B	A	B	B	B	A	B	B	A	A	E	D
CASTOR OIL	A	X	A	A	X	A	X	A	X	A	X	X	A	X	A	X	D	A
CATSUP	A	X	X	A	X	X	X	A	X	A	A	X	X	A	X	X	X	C
CAUSTIC POTASH	A	A	X	X	X	A	X	X	X	X	X	X	X	C	B	X	X	X
CAUSTIC SODA	A	B	C	B	X	A	X	X	X	X	A	C	A	B	A	X	X	A
CELLOSOLVE	A	A	X	X	X	A	X	X	X	X	A	X	X	C	E	X	D	X
CELLOSOLVE ACETATE	A	X	X	X	X	A	X	X	X	X	A	X	X	C	E	X	D	X
CETYL ALCOHOL	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X	X	X	X
CHLORAL HYDRATE	A	X	X	X	X	X	X	X	X	X	X	X	X	C	X	X	X	X
CHLORAMINE	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHLORIC ACID	A	X	X	X	X	X	X	X	B	E	E	X	X	X	X	X	X	X
CHLORINATED GLUE	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X	X	X	X
CHLORINE DIOXIDE	B	A	C	X	X	A	X	X	X	X	X	A	C	A	X	X	X	X
CHLORINE GAS	X	C	C	X	X	X	X	X	X	X	X	X	X	A	X	X	D	X
CHLORINE LIQUID	C	A	C	C	X	X	X	X	X	X	C	X	X	A	E	X	X	X
CHLORINE WATER	A	A	A	A	X	A	X	E	B	C	C	A	A	A	E	X	X	A
CHLOROACETIC ACID	A	A	D	X	E	A	E	C	B	C	E	A	A	A	D	E	D	D
CHLOROACETIC CETYL CHLORINE	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHLOROACETIC BENZENE	C	A	C	C	X	A	X	X	X	X	A	A	C	A	X	X	X	C
CHLOROACETIC BENZYL CHLORINE	C	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X

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CHLOROACETIC FORM	C	A	B	C	X	A	X	X	X	X	A	X	D	A	X	X	X	C
CHLOROACETIC PICRIN	C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHLOROACETIC SULFONIC ACID	A	C	C	C	X	A	X	X	X	X	C	X	X	C	X	X	X	C
CHLOROBENZENE (MONO)	D	A	C	D	D	B	E	C	A	A	B	A	D	A	D	E	E	D
CHLOROBROMOMETHANE	D	X	A	D	X	A	X	A	X	X	X	A	D	A	D	X	X	D
CHLOROFORM	E	A	E	X	E	A	E	D	B	A	A	A	E	D	D	E	D	D
CHLOROSULFONIC ACID	C	E	E	E	E	A	D	E	B	E	D	A	E	E	D	E	E	D
CLOROX BLEACH	A	X	X	C	X	A	X	E	A	E	A	X	X	A	X	X	A	X
CHOCOLATE SYRUP	A	X	A	X	X	A	A	B	X	A	B	X	X	A	X	X	X	A
CHROME ALUM	A	X	A	A	X	A	X	X	X	X	X	X	X	A	X	X	X	A
CHROMIC ACID 5%	X	X	X	X	X	X	B	E	B	B	X	X	X	X	X	X	X	X
CHROMIC ACID, 10%	A	A	A	A	A	A	B	E	A	B	B	A	A	A	C	A	A	D
CHROMIC ACID, 20%	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
CHROMIC ACID, 30%	A	A	A	A	A	A	C	E	E	C	B	A	A	A	C	A	X	D
CHROMIC ACID, 50%	E	A	A	B	D	A	E	E	B	C	C	A	A	A	C	A	D	D
CHROMIUM SALTS	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A
CIDER	A	X	A	B	X	A	A	A	X	A	A	X	X	A	B	X	X	A
CITRIC ACID	A	A	A	A	A	A	B	A	A	C	B	A	A	A	A	E	A	A
CITRIC OILS	X	X	A	X	X	A	X	A	X	A	A	D	X	X	D	X	X	D
COCONUT OIL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D	X
COTTON OIL	A	A	A	A	X	X	X	X	X	X	X	X	X	A	X	X	X	D
COD LIVER OIL	X	X	X	X	X	A	X	B	A	A	X	X	X	X	B	X	X	A
COFFEE	A	X	A	X	X	X	X	A	A	A	A	X	A	X	A	X	X	A
COKE OVEN GAS	A	X	X	A	X	A	X	X	X	X	X	X	X	A	B	X	X	X
COLA CONCENTRATES	X	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
COPPER ACETATE	A	X	X	X	X	A	X	X	X	X	X	X	X	X	E	X	X	X
COPPER CARBONATE	A	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	A
COPPER CHLORIDE	A	A	A	B	A	A	X	A	X	E	B	A	B	B	A	X	X	A
COPPER CYANIDE	A	A	A	X	A	A	E	A	B	B	A	A	X	B	A	X	X	A
COPPER FLUOBORATE	A	X	X	A	X	A	X	X	B	E	D	X	X	A	X	X	X	A
COPPER FLORIDE	A	A	C	A	X	A	X	X	X	X	B	C	X	A	X	X	X	X
COPPER NITRATE	A	A	A	A	A	A	E	A	C	A	A	A	B	B	X	X	X	A
COPPER SALTS	A	X	X	A	X	A	X	X	X	X	X	X	X	X	A	X	X	A
COPPER SULFATE	A	A	A	A	A	A	B	A	X	B	B	A	B	B	A	X	X	A
CORN OIL	A	X	X	X	X	A	X	X	X	X	X	X	X	X	A	X	X	A
CORN SYRUP	A	X	X	A	X	A	X	X	X	X	X	X	X	A	A	X	A	X





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DICHLOROBENZENE	D	A	C	X	X	A	E	D	B	X	B	X	D	C	D	E	E	D
DICHLOROETHANE	D	A	D	D	X	A	E	E	A	B	B	A	C	C	E	X	X	D
DICHLOROMETHANE	C	B	C	C	X	A	X	X	X	X	A	A	C	C	X	X	X	D
DIEMETHYL PHTHALATE	B	A	X	X	X	A	X	X	X	X	A	X	X	A	X	X	X	D
DIESEL FUEL	B	A	X	X	X	A	B	B	B	B	A	X	X	A	E	X	E	A
DIETHYL CELLOSOLVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DIETHYL ETHER	D	B	C	X	X	A	E	A	C	C	A	A	C	D	E	X	D	X
DIETHYL KEYSTONE	D	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
DIETHYL SEBSCATE	X	X	X	X	X	A	X	X	X	X	X	X	X	D	B	X	X	D
DIETHYLAMINE	D	D	A	X	X	D	E	B	A	A	A	X	C	A	B	E	X	A
DIETHYLAMINE 2.5% IN WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
DIETHYLENE GYCOL	X	X	A	B	X	A	C	B	C	B	A	A	A	A	A	X	A	A
DIETHYLENE TRIAMINE	X	X	X	X	X	A	X	X	X	X	X	X	X	X	E	X	X	X
DIETHYL OXIDE	D	B	D	X	X	A	X	X	X	X	A	X	D	A	C	X	X	D
DIGLYCOLIC ACID	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DIISOBUTYLENE	A	A	X	X	A	A	X	X	X	X	A	X	X	X	E	X	X	X
DIISOCTYL PHTHALATE	X	X	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
DIEMETHYL ANILINE	X	X	X	X	X	X	E	E	C	C	X	X	X	X	X	X	X	X
DIMETHYL FORMAMIDE	D	D	A	X	X	A	E	A	X	A	A	X	X	D	C	X	D	X
DIMETHYL HYDRAZONE	D	X	X	X	X	X	X	X	X	X	X	X	X	D	X	X	X	X
DIMETHYL PHTHALATE	D	D	X	X	X	A	X	X	X	X	A	A	C	C	X	X	X	X
DIMETHYL SULFOXIDE	D	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	E	X
DIMETHYLAMINE	A	X	B	X	X	A	X	X	X	X	X	X	X	D	X	X	X	X
DIMETHYLAQUEOUS	D	X	B	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DIOCTYL PHTHALATE	D	C	D	B	X	A	X	X	X	X	A	X	C	C	X	X	A	C
DIOXANE	E	D	D	E	X	A	X	X	X	X	C	X	D	D	D	X	E	D
DIOXANE 1 & 4	E	D	D	E	X	A	X	X	X	X	C	X	D	D	D	X	X	D
DIPHENYL	X	X	X	X	X	X	X	E	B	B	X	X	X	X	X	X	X	X
DIPHNOL ETHER	X	X	X	X	X	A	X	X	X	X	A	X	X	X	X	X	X	X
DIPHENYL ETHER	A	X	X	X	X	A	X	X	X	X	A	A	X	A	A	X	X	C
DIPENYL OXIDE	X	X	X	X	X	A	X	E	C	C	A	A	X	A	C	X	X	D
DIPROPYLENE GLYCOL	A	X	X	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X
DISODIUM METHYL ARSENATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DISODIUM PHOSPHATE	A	A	A	A	X	A	X	X	X	X	A	A	A	B	X	X	X	A
DISTILLED WATER	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DIVINYLBENZENED	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X	X	X



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FERRIC NITRATE	A	A	A	E	A	A	B	A	C	B	B	A	B	B	C	A	A	A
FERRIC SULFATE	A	A	A	E	A	A	B	A	B	C	A	A	B	B	B	A	A	A
FERROUS CHLORIDE	A	A	A	A	A	A	E	A	C	E	E	A	B	B	B	A	A	A
FERROUS CHLORITE	A	A	A	A	X	A	X	X	X	X	D	X	X	A	X	X	X	A
FERROUS HYDROXIDE	A	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
FERROUS NITRATE	A	X	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
FERROUS SULFATE	A	A	A	B	A	A	B	A	B	B	D	A	B	B	C	A	E	A
FISH SOLUBLES	A	X	A	A	X	A	X	X	X	X	X	X	X	X	A	X	X	X
FLUORIDE SALTS	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X	A
FLUORIDE GAS (WET)	A	X	C	X	X	X	X	X	X	X	X	X	D	D	X	X	X	D
FLUORIDE GAS (DRY)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D
FLUOBORIC ACID	A	A	A	E	B	A	X	A	B	B	B	E	B	X	X	A	E	A
FLUORINE	D	A	D	C	X	B	C	E	C	C	A	C	X	C	D	B	X	X
FLUORINE, GAS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X
FLUOSILICIC ACID	A	A	A	A	B	A	B	A	B	C	B	E	X	B	E	A	D	A
FORMALDEHYDE, 40%	B	A	A	B	A	A	B	A	B	B	A	A	B	E	B	E	E	B
FORMALDEHYDE, 100%	A	A	C	B	X	A	B	C	A	C	A	A	A	C	B	E	E	A
FORMIC ACID	C	A	A	B	E	A	B	B	A	C	B	A	B	E	B	A	X	A
FORMIC ACID, 25% IN WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
FORMIC ACID, 40-50% IN WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D	X
FORMIC ACID, 98% IN WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D	X
FREON 11	A	A	A	C	X	A	X	A	A	A	A	A	B	B	D	B	A	D
FREON 12 (WET)	C	B	A	C	X	A	X	B	A	C	E	A	E	A	D	B	A	A
FREON 21	D	A	A	C	X	A	X	X	X	X	A	A	A	D	D	X	X	A
FREON 22	A	A	B	C	X	A	X	B	A	A	A	A	B	D	D	B	A	A
FREON 113	B	B	D	E	X	A	C	E	A	X	X	A	A	B	D	B	A	C
FREON 114	D	A	X	X	X	A	X	X	X	X	A	X	X	A	D	X	X	X
FREON TF	B	B	D	E	X	A	X	D	A	A	A	A	A	B	D	X	X	A
FREON E-3	X	A	X	X	X	A	X	X	X	X	A	X	X	X	D	X	X	X
FRUCTOSE	A	X	A	A	X	A	X	X	X	X	A	X	X	A	X	X	X	X
FRUIT JUICE	A	A	B	B	X	A	X	B	A	A	A	A	B	A	A	A	A	A
FRUIT PULP	A	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FUEL OILS	A	B	A	D	X	A	C	A	B	A	A	A	C	A	D	A	E	B
FUMARIC ACID	X	D	X	X	X	A	X	X	X	X	A	X	X	X	B	X	X	A
FURAN RESIN	A	D	D	X	X	A	X	D	B	B	A	X	D	D	D	X	X	D
FURFURAL	E	B	E	D	X	A	E	E	B	A	B	A	B	E	D	E	E	D

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GALLIC ACID	B	A	A	C	X	B	X	A	C	A	B	A	D	A	D	E	X	B
GALLIC ACID, 17% IN ACETONE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D	X
GAS MANUFACTURED	A	A	C	C	X	A	X	X	X	X	A	X	X	A	D	X	X	D
GAS NATURAL	A	A	A	X	X	X	X	X	X	X	A	X	X	A	X	X	X	X
GASOLINE (BENZENE)	X	X	D	D	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GASOLINE (HIGH-AROMATIC)	A	A	A	D	A	B	A	A	A	A	A	A	B	A	D	A	X	A
GASOLINE (LEADED)	B	A	B	D	A	A	B	B	A	B	D	A	B	A	D	A	X	B
GASOLINE (UNLEADED)	C	A	C	D	A	A	B	D	A	B	A	A	A	A	D	A	E	B
GASOLINE (REFINED)	A	A	D	A	X	A	X	X	X	X	A	X	D	X	D	X	X	C
GASOLINE (SOUR)	A	X	D	A	X	A	X	X	X	X	X	X	X	A	D	X	X	X
GELATIN	B	A	A	A	X	A	X	A	A	B	A	X	B	A	A	A	A	A
GIN	A	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X
GLAUBERS SALTS	A	X	X	A	X	A	X	X	X	X	X	X	X	X	A	X	X	X
GLUCONIC ACID	X	X	X	A	X	A	X	X	X	X	X	X	X	X	X	X	X	A
GLUCOSE	A	A	A	B	A	A	B	A	A	B	A	A	B	A	A	A	X	A
GLUCOSE, 50% IN WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
GLUE, PVA	C	X	X	A	X	A	X	X	A	B	A	X	A	B	A	X	X	A
GYCERINE (GLYCEROL)	A	A	A	A	A	A	B	A	A	B	A	A	B	B	A	A	A	A
GLYCEROL	A	A	A	A	X	A	X	X	X	X	A	A	A	A	A	X	A	A
GLYCOLIC ACID	B	B	A	B	X	A	X	A	A	A	A	X	A	A	A	E	X	A
GLYCOLIC ACID, 70% IN WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D	X
GLYCOLS	A	A	A	A	X	X	X	X	X	X	A	X	X	A	A	X	X	X
GLYOXAL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GOLD MONOCYANIDE	X	A	X	X	X	D	X	X	X	A	A	X	X	A	X	X	X	A
GRAPE JUICE	A	A	X	B	X	A	X	X	X	A	A	X	X	A	A	X	X	D
GRAPE SUGAR	A	X	A	A	X	A	X	X	X	X	X	X	X	A	X	X	X	X
GREASE	A	A	X	A	X	A	X	X	A	X	A	X	X	A	D	X	X	D
GREEN LIQUOR	A	X	X	A	X	A	X	X	X	X	X	X	X	X	A	X	X	A
HEPTANE	C	A	C	D	X	A	B	D	A	A	A	A	B	A	D	X	X	B
HEXANE	B	A	B	C	X	A	E	C	A	A	A	A	B	A	D	B	E	B
HEXANOL	A	X	X	A	X	A	X	X	X	X	X	X	X	X	B	X	X	X
HONEY	A	A	A	A	X	A	B	A	A	A	A	X	X	A	A	X	X	X
HYDRAULIC FLUID	C	X	X	E	X	A	X	X	X	X	A	X	X	X	C	X	X	X
HYDRAULIC OIL (PETRO)	A	A	D	E	X	A	X	E	A	A	A	X	A	A	B	X	X	A
HYDRAULIC OIL (SYNTHETIC)	A	A	D	E	X	A	X	E	A	A	A	X	A	A	B	X	X	A
HYDRAZINE	A	A	C	B	A	C	E	C	X	A	A	A	B	A	B	E	D	B

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HYDOBROMIC ACID, 20%	A	A	A	B	X	A	X	D	A	E	E	C	A	A	D	A	E	D
HYDOBROMIC ACID, 50%	A	A	A	B	X	A	X	X	X	X	E	C	C	A	D	X	E	D
HYDOBROMIC ACID, 100%	A	A	C	A	X	A	X	D	C	E	D	X	A	A	E	A	E	D
HYDOBROMIC ACID, DILUTE	A	X	A	A	X	A	X	X	X	X	E	C	C	A	D	X	E	D
HYDOCHLORIC ACID, 0-25%	A	A	A	B	A	A	C	C	B	E	E	A	B	A	D	A	A	C
HYDOCHLORIC ACID, 25-37%	A	A	A	B	B	A	E	C	B	E	E	A	D	A	B	B	B	B
HYDOCHLORIC ACID, 37-100%	D	A	B	A	A	A	E	C	A	E	D	C	D	A	D	X	X	D
HYDOCHLORIC ACID, DILUTE	A	X	A	C	X	A	X	X	X	X	A	B	C	C	D	X	X	B
HYDOCHLORIC ACID, DRY GAS	B	A	A	A	X	A	X	B	A	E	D	X	A	A	C	X	X	B
HYDROCYANIC ACID	B	A	A	B	X	A	X	A	A	C	A	A	A	A	C	X	A	C
HYDROCYANIC ACID, GAS 10%	A	A	A	A	X	A	C	A	X	X	X	X	X	A	D	E	X	A
HYDOFLUORIC ACID, 10%	C	A	A	A	B	A	X	X	X	X	C	E	A	A	D	A	E	B
HYDOFLUORIC ACID, 20%	B	A	A	C	D	A	E	B	B	E	D	X	B	A	D	A	E	B
HYDOFLUORIC ACID, 30%	C	A	B	D	E	A	X	X	X	X	C	E	A	A	D	A	E	C
HYDOFLUORIC ACID, 50%	D	A	B	D	E	A	E	B	B	E	C	E	B	A	D	A	E	D
HYDOFLUORIC ACID, 60%	D	A	B	E	E	A	X	X	X	X	C	E	B	A	D	X	X	B
HYDOFLUORIC ACID, 75%	D	A	C	E	E	A	E	D	B	E	D	E	B	B	D	X	X	D
HYDOFLUORIC ACID, 100%	D	A	C	E	E	A	E	D	B	C	B	E	B	B	D	X	X	D
HYDOFLUORIC ACID, DILUTE	A	A	C	E	X	A	X	X	X	X	C	C	A	B	D	X	X	A
HYDOFLUOSILICIC ACID, 20%	A	A	A	A	X	A	X	A	B	D	B	X	B	A	D	X	X	B
HYDOFLUOSILICIC ACID, 100%	B	A	A	B	X	A	X	A	B	E	D	X	B	A	D	X	X	B
HYDROGEN GAS	A	A	A	A	X	A	B	A	A	A	A	X	A	A	C	A	A	A
HYDROGEN CHLORIDE	X	A	A	A	X	A	X	X	X	X	A	A	C	X	E	X	X	X
HYDROGEN CYANIDE	A	A	B	A	X	A	X	X	X	X	A	A	C	A	B	X	X	B
HYDROGEN FLOURIDE	D	X	X	B	X	X	X	X	X	X	X	X	X	D	E	X	X	X
HYDROGEN PEROXIDE, 10%	A	A	A	A	X	A	B	A	A	C	B	A	A	A	A	A	A	D
HYDROGEN PEROXIDE, 30%	A	A	A	B	B	A	B	C	A	C	B	A	A	A	B	A	A	D
HYDROGEN PEROXIDE, 50%	B	A	A	B	X	A	B	C	A	C	B	A	A	A	B	A	X	D
HYDROGEN PEROXIDE, 90%	E	A	B	D	E	A	A	C	A	C	B	A	D	A	B	A	B	D
HYDROGEN PHOSPHIDEA	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C
HYDROGEN SULFIDE (DRY)	A	A	A	A	X	A	X	B	A	D	A	A	B	A	C	A	X	A
HYDROGEN SULFIDE, AQ SOL.	C	A	A	X	B	A	A	B	A	C	B	A	B	B	C	X	X	A
HYDROGEN SULFIDE, (WET)	A	A	A	A	X	A	X	X	X	X	A	A	A	X	B	X	A	A
HYDROQUINONE	B	X	A	A	X	A	X	A	B	B	B	A	D	B	X	A	X	A
HYDROQUINONE, 7% IN WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D	X
HYDROXYACETIC ACID 70%	D	A	X	A	X	A	X	X	X	X	X	X	X	A	B	A	X	A



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CHEMICAL	PVC	PVDF	GFPPL	PE	SAN	TFE	Poly Carbonate	PP	HCO	304 SS	316 SS	ALA (CER)	Hypalon	Viton	Silicon	Fluran	Norprene A-60 G	Neoprene
LEMON OIL	A	X	D	B	X	E	X	X	X	X	X	X	X	X	X	X	E	X
LEVULINIC ACID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LIGRION	C	A	A	E	X	A	X	B	X	X	A	X	C	A	D	X	X	B
LIME	B	A	X	B	X	A	X	X	X	A	A	X	X	A	A	X	X	A
LIME BLEACH	X	X	X	X	X	A	X	X	X	X	X	X	A	X	C	X	X	A
LIME SLURRY	A	A	C	A	X	A	X	X	X	X	A	C	A	A	X	X	X	A
LIME SULFUR	A	A	A	A	X	A	X	X	X	X	C	X	X	A	B	X	X	X
LIMONENE-D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X
LINOLEIC ACID	A	A	B	X	X	A	X	C	X	B	A	X	D	A	B	A	D	X
LINOLEIC OIL	A	X	X	X	X	X	X	X	X	X	X	X	X	C	X	X	X	X
LINSEED OIL	A	A	A	C	X	A	X	X	X	X	A	A	A	A	A	X	D	A
LIQUERS	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LITHIUM BROMIDE	A	X	X	X	X	A	X	X	X	X	X	X	X	X	A	X	X	A
LITHIUM CHLORIDE	D	A	A	A	X	A	C	B	X	B	A	X	X	A	A	X	X	A
LITHIUM HYDROXIDE	X	X	X	X	X	A	E	X	B	B	B	X	X	X	E	X	X	X
LUBRICATING OIL	C	B	C	D	A	A	B	B	A	B	A	A	D	A	D	A	E	D
LYE KOH POTASSIUM HYDROXIDE	B	A	A	A	X	A	E	A	C	B	A	D	A	B	C	X	X	B
LYE NaOH SODIUM HYDROXIDE	A	D	A	A	X	A	E	A	C	B	B	A	A	B	A	X	X	A
LYE Ca(OH)2 CALCIUM HYDROXIDE	B	A	A	A	X	A	E	B	B	C	B	A	A	B	A	X	X	A
MACHINE OIL	A	X	B	C	X	A	X	X	X	X	X	X	X	X	X	X	X	X
MAGNESIUM BISULFATE	A	X	A	X	X	A	B	B	X	B	A	X	B	X	X	X	X	B
MAGNESIUM CARBONATE	B	A	A	B	X	A	B	A	B	B	B	A	A	A	X	A	A	A
MAGNESIUM CHLORIDE	A	A	A	A	A	A	B	B	B	E	B	A	A	A	A	A	A	A
MAGNESIUM CITRATE	A	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
MAGNESIUM HYDROXIDE	X	X	X	X	X	X	B	A	A	B	X	X	X	X	X	X	A	X
MAGNESIUM SALTS	A	X	X	A	X	A	X	X	X	X	X	X	X	X	A	X	X	X
MAGNESIUM NITRATE	A	A	A	A	A	A	B	A	A	B	A	A	A	A	A	A	A	A
MAGNESIUM OXIDE	X	X	X	X	X	A	X	X	X	A	A	X	X	C	X	X	X	X
MAGNESIUM SULFATE	A	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A	A	A
MALEIC ACID	A	A	A	A	E	A	X	A	B	A	B	A	A	A	B	A	D	D
MALEIC ANHYDRIDE	B	A	D	D	X	A	X	E	X	A	A	X	D	A	X	X	X	D
MALIC ACID	A	A	A	D	X	A	X	B	B	A	B	X	D	A	B	E	X	D
MAGANESE SALTS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
MANGANESE SULFATE	C	A	X	B	A	A	B	X	B	B	B	A	X	A	C	A	A	A
MASH	A	X	X	A	X	X	X	X	X	A	A	X	X	A	X	X	X	A
MAYONNAISE	D	A	A	A	X	A	X	X	A	C	A	X	X	A	X	X	X	A







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NITROGLYCOL	D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
NITROMETHANE	B	A	B	A	X	A	E	C	A	A	A	X	X	D	D	E	E	D
NITROUS ACID	A	B	A	A	X	A	X	A	E	B	B	A	A	B	X	A	A	D
NITROUS OXIDE	A	D	D	C	X	A	X	E	B	B	B	X	X	X	X	A	A	X
OILS AND FATS	A	A	A	X	X	A	X	X	X	X	A	A	X	A	X	A	E	X
OLEIC ACID	A	A	C	E	E	A	X	C	B	A	B	A	D	D	D	A	D	C
OLEUM, 25%	E	E	E	E	E	A	X	E	A	C	X	A	E	A	D	A	A	D
OLEUM, 100%	E	E	X	E	E	A	X	E	E	E	X	X	E	A	D	X	X	D
ORTHO DICHLORBENZENE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X
OXALIC ACID	A	A	A	B	D	A	X	B	B	B	C	A	A	A	B	E	B	B
OXYGEN GAS	A	A	D	A	X	A	X	X	X	X	A	X	D	A	A	X	A	D
OZONE	B	A	B	C	X	A	B	B	X	B	A	X	A	A	A	A	A	C
PALMITIC ACID	B	A	B	A	X	A	X	C	B	C	A	A	D	A	D	A	D	D
PARAFFIN	B	A	A	X	X	A	B	B	B	A	A	A	X	B	X	X	E	B
PENTANE	A	A	D	D	X	A	A	E	A	C	A	A	B	A	D	X	X	B
PERACETIC ACID	C	X	B	X	X	A	X	X	X	X	A	X	X	X	X	X	X	X
PERCHLORIC ACID 10%	A	X	A	A	X	A	X	C	B	C	C	A	D	A	D	X	X	D
PERCHLORIC ACID 70%	C	A	C	C	X	A	X	X	X	X	A	A	X	A	D	A	A	A
PERCHLOROETHYLENE	C	A	D	D	X	A	E	E	B	B	A	A	D	A	D	E	D	D
PERPHOSPHATE	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PETROLATUM	B	A	D	B	X	C	X	E	A	A	A	X	X	A	D	X	X	A
PETROLATUM ETHER	X	X	C	C	X	A	X	X	X	X	A	X	X	X	E	X	X	X
PETROLEUM	A	A	B	X	X	A	X	C	X	B	A	X	D	A	D	X	X	B
PETROLEUM OILS	A	X	A	X	X	A	X	X	X	X	X	X	C	X	E	X	X	C
PETROLEUM (SOUR)	A	X	A	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X
PETROLEUM (REFINED)	A	X	A	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X
PHENOL 10%	C	A	B	A	C	A	C	C	B	B	B	A	D	A	D	A	A	D
PHENOL (CARBOLIC ACID)	C	A	B	C	A	A	E	B	A	B	B	A	E	A	D	X	X	D
PHENYHYLDRAZINE	D	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X
PHENYHYLDRAZINE HYDROCHLORIC	C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C
PHOSGENE LIQUID	D	X	D	X	X	A	X	X	X	X	A	A	X	D	X	X	X	C
PHOSGENE GAS	B	X	X	D	X	A	X	X	X	X	A	A	X	D	X	X	X	C
PHOSPHORIC ACID <40%	B	B	X	X	X	A	A	B	B	E	X	X	X	X	X	X	X	X
PHOSPHORIC ACID, 0-50%	A	A	A	A	B	A	A	B	B	E	B	A	A	B	C	A	A	B
PHOSPHORIC ACID, 50-100%	B	A	B	B	D	A	X	X	X	X	B	A	A	B	D	A	E	B
PHOSPHORIC ACID CRUDE	A	X	X	A	X	A	A	C	B	E	C	X	A	A	C	X	X	A



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POTASSIUM BICARBONATE	A	A	A	B	A	A	X	A	B	B	B	A	B	B	B	X	X	A
POTASSIUM BICROMATE	A	A	C	A	X	A	X	X	X	X	B	X	X	X	A	X	X	X
POTASSIUM BISULFATE	A	X	X	B	X	A	X	X	X	X	X	X	X	A	X	X	X	X
POTASSIUM BORATE	A	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	A
POTASSIUM BROMATE	A	X	A	A	X	X	X	X	X	X	X	X	X	A	X	X	X	A
POTASSIUM BROMIDE	A	A	A	B	A	A	B	A	B	B	B	A	B	B	B	X	X	A
POTASSIUM CARBONATE	A	A	A	B	A	A	X	X	X	X	B	A	B	B	C	A	A	A
POTASSIUM CHLORATE	A	A	A	B	A	A	B	A	B	C	A	A	B	B	C	X	X	A
POTASSIUM CHLORIDE	A	A	A	A	A	A	A	A	A	C	D	A	B	B	A	A	A	A
POTASSIUM CHROMATE	A	B	A	B	X	A	X	A	A	C	B	B	A	A	X	X	X	A
POTASSIUM CYANIDE	A	A	A	A	A	A	X	A	B	C	A	A	B	B	A	A	A	B
POTASSIUM DICHROMATE	A	A	A	B	A	A	B	A	B	B	A	A	B	B	A	A	A	A
POTASSIUM ETHYL XANTHATE	B	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
POTASSIUM FERRICYANIDE	B	B	A	A	X	B	X	B	C	C	C	B	B	A	X	X	X	B
POTASSIUM FERROCYANIDE	A	A	A	A	A	A	X	A	B	B	B	B	A	A	X	X	X	A
POTASSIUM FLUORIDE	A	A	A	A	X	A	X	X	X	X	B	A	A	A	X	X	X	A
POTASSIUM HYDROXIDE	A	A	A	A	E	A	E	A	C	B	B	E	B	B	C	A	A	B
POTASSIUM HYPOCHLORITE	B	B	X	B	X	A	X	X	C	D	B	D	B	X	X	A	A	B
POTASSIUM IODIDE	A	A	A	A	X	A	X	B	B	B	A	B	A	A	X	A	A	A
POTASSIUM NITRATE	A	A	A	A	A	A	B	A	C	B	B	A	B	B	A	A	A	A
POTASSIUM OXIDE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
POTASSIUM OXALATE	X	X	X	X	X	A	X	X	B	B	B	A	X	X	X	X	X	X
POTASSIUM PERBORATE	A	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	A
POTASSIUM PERCHLORATE	A	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	C
POTASSIUM PERMANGANATE	A	A	A	A	A	A	B	B	B	B	B	A	B	B	X	A	A	A
POTASSIUM PERSULFATE	A	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	C
POTASSIUM SALTS	X	X	X	X	X	X	X	X	X	X	X	XX	X	X	X	X	A	X
POTASSIUM SULFATE	A	A	A	A	A	A	B	A	C	C	B	A	B	B	A	A	A	A
POTASSIUM SULFIDE	A	A	A	A	X	A	X	A	X	B	B	A	B	A	A	A	A	A
PROPANE	A	A	C	A	X	A	D	A	A	A	A	A	B	A	E	X	A	X
PROPANOL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	D	X
PROPYLENE CHLOROHRIDRIN	X	C	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
PROPYLENE DICHLORIDE	D	X	C	C	X	A	X	X	X	X	A	A	X	X	E	X	X	D
PROPYLENE GLYCOL	A	X	A	A	X	A	C	B	B	B	A	A	A	A	A	X	A	C
PROPYLENE OXIDE	D	C	X	B	X	A	X	X	X	X	A	A	C	D	E	X	A	C
PYRIDINE	D	D	A	C	X	A	E	B	B	A	A	A	D	D	D	X	D	D

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PYROGALLIC ACID	A	A	A	B	X	A	X	A	B	C	B	A	D	D	D	X	X	D
QUATERNARY AMMONIUM SALTS	X	X	X	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
RAYON ACID WATER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A
RAYON COLGULATING	A	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RAYON SPIN BATH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C
RESORCINAL	C	X	A	A	X	A	C	B	X	X	X	X	X	A	C	X	X	D
ROSINS	C	X	A	A	X	A	X	B	X	B	A	X	B	A	A	X	X	A
RUMS	A	X	A	X	X	A	X	A	X	A	A	X	A	A	A	X	X	A
RUST INHIBITORS	X	X	A	X	X	X	X	A	X	A	A	X	X	A	X	X	X	C
SALAD DRESSINGS	X	X	A	X	X	X	X	A	X	A	A	X	X	A	X	X	X	X
SALENIC ACID	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SALICYLALDEHYDE	C	A	X	B	X	A	X	X	X	X	X	X	X	X	X	X	X	X
SALICYLIC ACID	B	A	A	A	X	A	B	B	B	C	B	X	A	A	X	A	A	X
SALINE SOLUTIONS	A	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	A
SALT BRINE	A	A	A	X	X	A	A	A	B	C	A	X	A	A	A	X	X	A
SEA WATER	A	A	A	B	A	A	B	A	A	C	C	X	A	A	A	X	X	B
SELENIC ACID	X	X	B	B	X	X	X	X	X	X	A	X	X	X	X	X	X	A
SEWAGE	X	A	X	X	X	A	X	X	X	X	B	X	A	X	B	X	X	A
SHELLAC (BLEACHED)	E	X	A	A	X	A	X	A	X	A	A	X	A	A	X	X	X	B
SHELLAC (ORANGE)	E	X	A	A	X	A	X	A	X	A	A	X	X	A	X	X	X	D
SHORTNING	C	X	A	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SILICIC ACID	A	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X
SILICONE	A	A	A	A	X	A	B	A	X	A	A	X	A	A	C	A	X	A
SILICONE OIL	A	X	X	A	X	A	X	X	X	X	A	X	X	A	C	X	D	A
SILVER BROMIDE	X	X	X	X	X	A	X	X	A	E	D	X	X	X	X	X	X	X
SILVER CYANIDE	A	A	X	A	X	A	X	X	X	X	A	X	A	X	E	X	X	A
SILVER NITRATE	A	A	A	B	A	A	B	B	A	B	B	A	A	A	A	A	A	A
SILVER SULFATE	X	X	X	X	X	A	X	X	X	X	X	X	X	A	X	X	X	X
SKYDROL 500A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X
SOAPS	A	A	A	C	A	A	B	A	A	A	A	A	B	B	A	A	B	B
SODIUM ACETATE	A	A	A	A	A	A	B	A	A	B	B	A	A	E	D	A	A	B
SODIUM ALUM	A	X	X	A	X	A	X	X	X	X	X	X	X	X	A	X	X	X
SODIUM ALUMINATE	A	A	C	A	X	A	X	X	B	A	A	A	A	A	X	X	X	A
SODIUM BENZOATE	A	A	A	A	X	A	B	B	B	X	X	X	X	X	X	X	A	X
SODIUM BICHROMATE	A	A	X	A	X	A	X	X	X	X	B	X	X	X	X	X	X	X
SODIUM BICARBONATE	A	A	A	A	A	A	B	A	C	A	B	A	B	B	A	A	A	A

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SODIUM BISULFITE	A	A	A	A	A	A	B	A	B	C	B	A	B	B	A	X	X	A
SODIUM BORATE	A	A	A	A	X	A	B	B	A	C	A	A	A	A	A	X	X	A
SODIUM BROMATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SODIUM BROMIDE	B	A	A	A	X	A	X	X	X	C	C	A	B	A	X	X	X	A
SODIUM CARBONATE	A	A	A	A	A	A	B	A	A	A	B	A	B	B	A	A	A	A
SODIUM CHLORATE	A	A	A	A	A	A	B	A	C	A	B	A	B	B	C	A	A	A
SODIUM CHLORIDE	A	A	A	A	A	A	B	A	A	B	B	A	B	B	A	A	A	A
SODIUM CHLORITE	D	A	A	A	X	A	X	X	X	X	C	A	A	E	X	X	X	C
SODIUM CHROMATE	A	A	A	A	X	A	B	X	A	C	B	A	A	A	A	X	X	A
SODIUM CYANIDE	A	A	A	B	A	A	X	A	A	B	A	A	B	B	A	A	A	A
SODIUM DICHROMATE	A	A	A	A	X	A	X	X	X	X	A	A	A	A	B	X	A	B
SODIUM FERROCYANIDE	A	A	A	A	A	A	X	A	A	B	B	A	B	A	A	X	X	A
SODIUM FLUORIDE	A	A	A	C	A	A	X	A	A	E	D	A	B	A	X	A	A	A
SODIUM HEXAMETAPHOSPHATE	A	A	A	A	X	A	X	X	X	X	A	A	A	A	A	X	X	A
SODIUM HYDROSULFITE	C	A	X	A	A	A	X	X	A	X	A	A	B	A	C	X	X	B
SODIUM HYDROXIDE, 20%	A	A	A	A	B	A	B	A	B	B	A	B	B	E	A	A	A	B
SODIUM HYDROXIDE, 50%	A	A	A	B	B	A	E	A	C	B	A	B	B	E	A	A	A	B
SODIUM HYDROXIDE, 80%	A	D	A	C	X	A	E	A	B	C	B	A	A	B	A	X	X	B
SODIUM HYPOCHLORITE	A	A	C	A	A	A	X	B	B	E	D	A	B	A	B	A	A	C
SODIUM HYPOSULFATE	X	X	X	X	X	A	X	X	X	A	A	X	X	X	X	X	X	C
SODIUM IODINE	X	X	X	A	X	X	X	X	X	X	X	X	X	X	E	X	X	X
SODIUM METAPHOSPHATE	A	A	A	A	A	A	X	B	X	A	A	A	B	A	A	X	X	B
SODIUM METASILICATE	A	A	A	A	X	A	X	A	A	A	A	A	B	A	X	X	X	A
SODIUM NITRATE	A	A	A	A	A	A	X	A	B	C	A	A	B	B	D	A	A	B
SODIUM PALMITRATE	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SODIUM PERBORATE	A	X	A	B	X	A	X	A	B	B	B	X	B	A	B	A	A	B
SODIUM PERCHLORATE	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SODIUM PEROXIDE	B	A	B	B	X	A	B	B	B	A	A	A	B	A	D	A	A	B
SODIUM PHOSPHATE	A	A	A	A	A	A	X	X	X	X	B	A	B	A	D	A	A	B
SODIUM PHOSPHATE ALKALINE	A	X	A	A	X	A	X	X	X	X	X	X	X	A	X	X	X	X
SODIUM PHOSPHATE ACID	A	X	A	A	X	A	X	X	X	X	X	X	X	A	X	X	X	X
SODIUM POLYPHOSPHATE	X	X	X	X	X	X	X	A	A	B	B	X	X	A	X	X	X	D
SODIUM SALTS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
SODIUM SILICATE	A	A	A	A	A	A	X	A	B	A	B	A	A	A	A	X	X	A
SODIUM SULFATE	A	A	A	A	A	A	B	A	B	B	A	A	B	B	A	A	A	A

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CHEMICAL	PVC	PVDF	GFPPL	PE	SAN	TFE	Poly Carbonate	PP	HCO	304 SS	316 SS	ALA (CER)	Hypalon	Viton	Silicon	Fluran	Norprene A-60 G	Neoprene
SODIUM SULFIDE	A	A	A	A	A	B	E	A	C	B	B	A	B	B	A	A	A	A
SODIUM SULFITE	A	A	A	A	A	A	X	B	B	B	A	A	A	A	A	A	A	A
SODIUM TETRABORATE	A	A	A	A	X	A	X	X	X	B	A	A	A	A	A	X	X	B
SODIUM THIOCYANATE	A	X	X	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X
SODIUM THIOSULFATE	A	A	A	A	A	A	E	B	B	B	B	A	A	A	A	X	X	A
SORGHUM	X	X	X	X	X	X	X	X	X	A	A	X	X	A	X	X	X	A
SOUR CRUDE OIL	A	X	A	B	X	X	X	X	X	X	X	X	X	D	X	X	X	X
SOY JUICE	X	X	X	X	X	X	X	X	X	X	A	X	X	A	X	X	X	A
SOY SAUCE	X	X	X	X	X	X	X	X	X	A	A	X	X	A	D	X	X	A
STANNIC CHLORIDE	A	A	A	A	A	A	B	A	B	E	E	A	D	B	B	A	A	C
STANNIC FLUOBORATE	X	X	X	X	X	X	X	X	X	X	A	X	X	A	X	X	X	A
STANNOUS CHLORIDE	A	A	A	A	A	A	X	A	B	D	A	A	A	A	B	X	A	A
STARCH	A	X	A	B	X	A	X	B	X	A	A	A	A	A	X	X	X	A
STEAM 300 DEG F	A	C	X	A	X	A	X	X	X	X	A	X	X	X	A	X	X	X
STEARIC ACID	A	A	C	E	E	A	B	B	B	B	A	A	D	A	B	A	D	B
STODDARDS SOLVENT	E	A	X	X	A	A	B	C	A	A	A	X	X	A	D	X	X	C
STRONTIUM CARBONATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STYRENE	D	X	X	X	X	A	E	X	E	A	A	A	D	B	D	D	X	D
STYRENE MONOMER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X
SUCCINIC ACID	A	X	A	X	X	A	X	X	X	X	X	X	X	X	X	X	X	X
SUGAR (LIQUIDS)	A	X	A	A	X	A	X	A	A	A	A	X	A	A	A	X	X	A
SUGAR ION EXCHANGE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A
SULFAMIC ACID	A	X	A	X	X	A	X	X	X	X	C	A	X	X	X	X	X	X
SULFATE (LIQUORS)	B	A	A	A	X	A	X	A	B	B	B	X	A	A	A	X	X	A
SULFATED DETERGENTS	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SULFINOL	X	A	A	A	X	X	X	X	X	X	A	X	X	X	X	X	X	X
SULFUR	A	A	D	B	X	A	X	X	X	X	A	A	D	D	C	X	X	X
SULFUR CHLORIDE	C	A	C	A	X	A	X	D	A	E	C	X	C	A	C	A	E	D
SULFUR DIOXIDE	A	A	A	C	C	A	X	B	C	E	A	A	X	A	B	A	A	D
SULFUR DIOXIDE (DRY)	A	A	A	D	X	A	B	B	B	E	B	X	X	A	B	A	A	D
SULFUR HEXAFLUORIDE	B	X	X	B	X	B	X	X	X	X	B	X	B	X	B	X	X	A
SULFURYSR	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SULFUR TRIOXIDE	A	C	C	C	X	A	X	C	X	A	C	A	D	A	B	B	B	D
SULFUR TRIOXIDE (DRY)	A	C	D	C	X	A	X	D	B	E	A	X	X	A	B	X	X	D
SULFURIC ACID, 0-10%	A	A	A	A	E	A	B	B	C	E	E	A	D	A	C	A	A	B
SULFURIC ACID, 10 -75%	A	A	A	C	E	A	C	B	C	E	E	A	D	A	D	A	E	B

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SULFURIC ACID, 75-95%	C	A	C	C	E	A	E	D	C	C	E	A	D	A	D	A	E	D
SULFURIC ACID, 95-100%	D	A	C	C	E	A	E	D	C	C	B	A	B	B	D	A	E	D
SULFUROUS ACID	A	A	A	B	A	A	X	A	B	C	B	A	A	A	D	A	A	C
SYRUP	X	X	A	X	X	X	X	X	X	X	A	X	X	A	X	X	X	A
TALL OIL	A	A	A	X	X	A	X	X	X	X	B	X	X	X	A	X	X	X
TALLOW	B	X	A	C	X	A	X	B	X	A	A	X	C	A	C	X	X	B
TANNIC ACID	A	A	A	B	X	A	C	A	C	C	B	A	B	B	B	E	B	A
TANNING LIQUORS	A	A	A	A	X	A	X	B	B	B	A	A	X	A	B	X	X	A
TAR	X	X	X	X	X	A	X	X	X	X	A	X	X	A	X	X	X	X
TARTARIC ACID	A	A	A	A	E	A	X	A	B	D	B	A	B	B	A	A	A	A
TETRACHLOROETHANE	C	A	C	C	X	A	X	C	A	B	A	A	D	A	D	X	X	D
TETRACHLOROETHYLENE	E	A	C	E	X	A	E	E	X	X	B	A	E	A	D	X	X	D
TETRAETHYL LEAD	A	A	X	C	X	A	X	X	X	X	C	X	X	A	X	X	X	X
TETRAHYDROFURAN	D	B	C	D	X	A	E	D	A	A	A	A	D	D	D	E	E	D
TETRA SODIUM PHOSPHATE	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TETRALIN	D	X	D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THIONYLCHLORIDE	D	D	D	D	X	A	X	X	X	X	B	A	X	X	E	X	A	X
THREAD CUTTING OIL	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TIN SALTS	A	A	A	A	X	A	X	X	C	X	D	X	A	A	B	A	A	B
TIRPINEOL	A	X	X	X	X	X	X	X	X	X	X	X	X	X	E	X	X	X
TITANIUM SALTS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
TITANIUM TETRACHLORIDE	D	X	X	C	X	A	X	X	X	X	A	A	A	A	X	X	X	A
TOLUENE	D	A	C	D	D	A	E	D	A	A	A	A	D	C	D	D	E	D
TOLUENE KEROSENE	D	X	D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TOLUENE TOLUOL	D	B	C	X	X	X	X	X	X	X	A	X	D	A	E	X	X	D
TOMATO JUICE	A	A	A	D	X	A	B	A	X	A	A	X	A	A	A	X	X	A
TOXAPHENE XYLENE	D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TRANSFORMER OIL	A	X	B	C	X	A	X	B	X	A	X	X	X	A	B	X	X	X
TRIBUTYL CITRATE	A	X	X	B	X	A	X	X	X	X	X	X	X	X	X	X	X	X
TRIBUTYL PHOSPHATE	D	B	A	C	X	A	X	X	X	X	A	A	D	D	D	X	X	D
TRICHLOROACETIC ACID	B	B	A	B	X	A	E	A	B	E	C	A	X	C	D	E	B	D
TRICHLOROETHANE	C	A	C	C	X	A	E	C	A	B	B	A	D	A	D	E	D	D
TRICHLOROETHYLENE	D	B	C	D	D	A	X	D	A	B	B	A	D	A	D	E	D	D
TRICHLOROPROPANE	X	X	X	X	C	A	X	X	A	A	A	X	X	A	X	E	D	A
TRICRESYL PHOSPHATE	E	A	C	C	X	A	X	B	A	B	A	A	E	A	C	E	A	C
TRIETHANOLAMINE	B	C	A	C	X	A	X	X	X	X	A	A	C	C	E	X	D	X



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TRIETHYLAMINE	B	A	D	X	A	A	X	D	X	A	A	B	X	D	E	X	X	A
TRIMETHYL PHOSPHATE	X	X	X	X	X	A	X	X	X	X	X	A	C	C	X	X	X	X
TRIMETHYL PROPANE	A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TRISODIUM PHOSPHATE	A	A	A	A	X	A	X	A	A	B	B	A	A	D	C	A	E	A
TRITHANOLAMINE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TUNG OIL	X	A	A	X	X	A	X	X	X	X	A	A	A	A	E	X	X	A
TUNGSTIC ACID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A
TUNGSTIC OIL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A
TURPENTINE	A	A	A	D	A	A	E	E	B	A	B	A	C	A	A	A	E	A
UNICHROME SOLUTION ALKALI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
UREA	A	A	A	A	X	A	E	A	B	B	B	A	A	E	B	A	A	B
UREA AMMONIA ACID	X	X	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X	A
URIC ACID	A	X	X	A	X	A	X	X	B	B	B	D	A	X	X	D	A	A
URINE	A	A	A	B	X	A	X	A	X	A	A	X	X	A	X	X	X	D
VANILLA EXTRACT	X	X	A	A	X	A	X	X	X	X	X	X	X	X	X	X	X	X
VARNISH	D	X	A	A	X	A	X	A	A	A	A	X	D	A	D	X	X	D
VASELINE	A	X	A	X	X	A	X	X	X	X	X	X	X	X	D	X	X	X
VEGETABLE JUICE	A	X	X	A	X	A	X	X	X	A	A	A	X	A	B	X	X	X
VEGETABLE OIL	A	X	X	A	X	A	X	X	X	X	A	X	X	A	A	X	X	D
VINAGER	A	A	A	A	A	A	B	A	A	A	A	A	B	B	A	E	A	B
VINYL ACETATE	D	A	B	X	X	A	X	C	X	B	A	B	A	A	D	E	B	D
VINYL CHLORIDE	D	B	X	X	X	A	X	X	B	C	A	A	X	A	X	X	X	D
WATER, BRINE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	A	X
WATER, DEIONIZED	A	A	A	A	A	A	X	B	B	E	A	A	A	A	A	A	A	A
WATER, ACID, MINE	B	A	A	A	A	A	C	A	A	B	B	B	X	A	B	X	X	C
WATER, DISTILLED	A	A	A	A	A	A	B	A	A	A	A	A	A	A	C	A	A	A
WATER DEMINERALIZED	A	A	A	X	X	A	X	X	X	X	X	X	X	A	X	X	X	X
WATER, FRESH	B	A	A	D	A	A	B	A	A	A	A	A	X	A	B	X	X	A
WATER, SALT	B	A	A	A	A	A	B	A	A	B	B	B	X	A	B	X	X	A
WATER SEWAGE	A	X	A	X	X	X	X	X	X	X	X	X	X	A	X	X	X	X
WATER STEAM CONDENSATE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WEED KILLERS	X	X	X	X	X	X	X	X	X	A	A	X	X	X	A	X	X	C
WHEY	X	X	X	X	X	A	X	X	X	A	A	X	X	A	X	X	X	X
WHISKEYS AND WINES	A	A	A	A	A	A	B	A	B	A	A	A	A	A	A	X	X	C
WHITE LIQUOR (ACID)	A	A	X	X	E	A	X	B	A	A	A	A	X	A	A	X	X	A
WHITE WATER	A	X	A	X	X	X	X	A	X	A	A	X	X	A	X	X	X	A

