

Metritape Level Gauging

Chemical Compatibility List – Revised 4/22/02

Ç Consilium

Suggested Sensor Types for Common Chemicals by Name

22 Apr 2002

P = Preferred, A = Acceptable

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
1,1,1-TRI CHLORO ETHANE			P					P			3
1,1,2-TRI CHLORO ETHANE			P					P			3
1,1,2-TRI CHLORO-1,2,2 TRI FLUORO ETHANE			P					P			3
1,1-DI CHLORO ETHANE			P					P			3
1,1-DI CHLORO PROPANE			P					P			2
1,2,3-TRI CHLORO PROPANE			P					P		1	2
1,2,4-TRI CHLORO BENZENE			P					P			2
1,2-BUTYLENE OXIDE S			P					P			3
1,2-DI CHLORO PROPANE			P					P			2
1,3,5-TRIOXANE			P					P			3
1,3-CYCLO PENTADIENE DIMER (MOLTEN)			P					P			2
1,3-DI CHLORO PROPANE			P					P			2
1,3-DI CHLORO PROPENE			P					P			2
1,3-PENTADIENE			P					P			3
1,4 DIOXANE			P					P			2
1,4-DI CHLORO PROPANE			P					P			2
1,4-DI HYDRO-9,10-DI HYDROXY ANTHRACENE			P					P			5
1,5,9-CYCLO DODECATRIENE			P					P			1
1,6-DI CHLORO HEXANE			P					P			2
1-NITRO PROPANE			P					P			3
1-PHENYL-1-XYLYLETHANE (BB)			P					P			3
1-UNDECENE			P					P			3
2,2-DI CHLORO ISO-PROPYL ETHER			P					P			2
2,2,4-TRI METHYL,1,3-PENTANEDIOL,1-ISO-BUTYRAT			P					P			3
2,2,4-TRIMETHYL-1,3-PENTANEDIOL DI ISO-BUTYRAT			P					P			5
2,2-DI CHLORO PROPIONIC ACID			P					P			3
2,2-DI METHYL PROPANE-1,3-DIOL			P					P			5
2,4 DI CHLORO PHENOXY ACETIC ACID, DI ETHANOL			P					P			3
2,4 DI CHLORO PHENOXY ACETIC ACID, TRI ISO-PROP			P					P			3
2,4-DI CHLORO PHENOL			P					P			2
2,4-DI CHLORO PHENOXY ACETIC ACID, DI METHYL A			P					P			3
2,6-DI ETHYL ANILINE			P					P			3
2-(2-AMINO ETHOXY) ETHANOL			P					P			3
2-AMINO-2-HYDROXY METHYL-1,3-PROPANEDIOL S			P					P			5
2-AMINO-2-METHYL-1-PROPANOL(90% OR LESS)			P					P			3
2-CHLORO PROPIONIC ACID			P					P			3
2-ETHOXY ETHANOL			P					P			5
2-ETHOXY ETHYL ACETATE			P					P			3
2-ETHYL HEXANOIC ACID			P					P			5
2-ETHYL HEXYL ACRYLATE			P					P			3
2-ETHYL HEXYL AMINE			P					P			2
2-ETHYL-2-(HYDROXY METHYL) PROPANE-1,3-DIOL,			P					P			5
2-ETHYL-3PROPYL ACROLEIN			P					P		5	3
2-HYDROXY ETHYL ACRYLATE			P					P			2
2-HYDROXY-4-(METHYL THIO)-BUTANOIC ACID			P					P			3
2-METHYL PYRIDINE			P					P			2
2-METHYL-2-HYDROXY-3-BUTYNE			P					P			3
2-METHYL-5-ETHYL PYRIDINE			P					P			3
2-METHYL-6-ETHYL ANILINE			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
2-NITRO PROPANE			P					P			3
2053 UREA RESIN "CARGILL"			P					P			6
3,4-DI CHLORO-1-BUTENE			P					P			3
3-CHLORO PROPIONIC ACID			P					P			3
3-METHOXY BUTYL ACETATE			P					P			5
3-METHOXY-1-BUTANOL			P					P			5
3-METHYL PYRIDINE			P					P			2
3-METHYL-3-METHOXY BUTANOL			P					P			5
3-METHYL-3-METHOXY BUTYL ACETATE			P					P			5
4-CHLORO-2-METHYL PHENOXY ACETIC ACID, DI ME			P					P			3
4-METHYL PYRIDINE			P					P			2
ACETATE ESTERS			P					P			6
ACETIC ACID			P					P			3
ACETIC ANHYDRIDE			P					P			2
ACETOCHLOR			P					P			3
ACETONE			P					P			5
ACETONE CYANOHYDRIN									X	7, 8	2
ACETONITRILE			P					P		1	2
ACETOPHENONE 4-METHOXY			P					P			6
ACRYLAMIDE SOLUTION (50% OR LESS)			P					P		7, 8	2
ACRYLIC ACID			P					P			3
ACRYLIC POLYMER			P					P			6
ACRYLONITRILE			P					P		8	2
ACRYLONITRILE-STYRENE COPOLYMER DISPERSION			P					P			5
ADIPONITRILE			P					P			3
AERO CYANAMID			P					P			6
ALACHLOR TECHNICAL (90% OR MORE)			P					P			3
ALCOHOL (C12-C15) POLY (1-6) ETHOXYLATES			P					P			2
ALCOHOL (C12-C15) POLY (20+) ETHOXYLATES			P					P			3
ALCOHOL (C12-C15) POLY (7-19) ETHOXYLATES			P					P			3
ALCOHOL (C6-C17) (SECONDARY) POLY (7-12) ETH			P					P			3
ALCOHOL (C6-C17) (SECONDARY)POLY (3-6) ETHO			P					P			2
ALCOHOL MIXED			P					P			5
ALCOHOLIC BEVERAGES, N.O.S.			P					P			5
ALCOHOLS (C13+)			P					P			5
ALKANES (C6-C9)			P					P			3
ALKARYL POLYETHERS (C9-20)			P					P			3
ALKENYL (C11+) AMIDE			P					P			5
ALKYD RESIN			P					P			6
ALKYL (C8+) AMINE, ALKENYL (C12+) ACID ESTER			P					P			5
ALKYL (C3-C4) BENZENES			P					P			3
ALKYL (C5-C8) BENZENES			P					P			2
ALKYL (C7-C11) PHENOL POLY(4-12) ETHOXYLATE			P					P			3
ALKYL (C7-C9) NITRATES			P					P			2
ALKYL (C9+) BENZENES			P					P			5
ALKYL ACRYLATE-VINYL PYRIDINE COPOLYMER IN			P					P			3
ALKYL BENZENE SULPHONIC ACID			P					P			3
ALKYL BENZENE SULPHONIC ACID SODIUM SALT SO			P					P			3
ALKYL BENZENE, ALKYLINDANE, ALKYLINDENE MIX			P					P			2
ALKYL DI THIO THIADIAZOLE (C6-C24)			P					P			5
ALLYL ALCOHOL			P					P			2
ALLYL CHLORIDE			P					P			2

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
ALPHA-METHYL STYRENE			P					P			3
ALPHA-OLEFINS (C6-C18) MIXTURES			P					P			3
ALPHA-PINENE			P					P			3
ALUM			P					P			6
ALUMINUM CHLORIDE			P					P		3	3
ALUMINUM CHLORIDE (30% OR LESS)/HYDROCHLORI			P					P		3	3
ALUMINUM FLUORIDE			P	P			P	P		3	6
ALUMINUM HYDROXIDE				P			P				6
ALUMINUM SULFATE SOLUTION			P					P			5
AMINO ETHYL DI ETHANOL AMINE / AMINO ETHYL ET			P					P			5
AMINO ETHYL ETHANOL AMINE			P					P			3
AMMONIA AQUEOUS (28% OR LESS)				P			P			Chk	3
AMMONIA, ANHYDROUS									X	1	6
AMMONIUM ACETATE			P					P			6
AMMONIUM BISULFITE SOLUTION (70% OR LESS)			P					P			3
AMMONIUM CHLORIDE				P			P			3	6
AMMONIUM HYDROGEN PHOSPHATE SOLUTION			P					P			5
AMMONIUM HYDROXIDE				P			P				6
AMMONIUM LIGNO SULPHONATE SOLUTIONS			P					P			5
AMMONIUM NITRATE SOLUTION			P					P			2
AMMONIUM POLY PHOSPHATE SOLUTION			P					P			5
AMMONIUM SULFATE SOLUTION			P					P			5
AMMONIUM SULFIDE SOLUTION (45% OR LESS)				P			P				2
AMMONIUM THIOCYANATE (25% OR LESS) / AMMONI			P					P			3
AMMONIUM THIOSULFATE SOLUTION (60% OR LESS)			P					P			3
AMYL ACETATE (ALL ISOMERS)			P					P			3
AMYL ALCOHOL, PRIMARY			P					P			5
ANILINE			P					P			2
ANIMAL AND FISH ACID OILS AND DISTILLATES		P	A				P	A			5
ANIMAL AND FISH OILS		P	A				P	A			5
APPLE JUICE			P					P			5
ARCOL PPG-425 POLYOL		P	A				P	A			6
AROMATIC OIL (EXCLUDING VEGETABLE OIL)		P	A				P	A			4
ARSENIC ACID			P					P			6
ARYL POLY OLEFINS (C11-C50)			P					P			5
AUTOMOTIVE		P	A				P	A			4
AVIATION		P	A				P	A			4
AVIATION ALKYLATES (C8 PARAFFINS AND ISO-PA		P	A				P	A			3
BENZENE		P	A				P	A			3
BENZENE AND MIXTURES HAVING 10% BENZENE OR		P	A				P	A			3
BENZENE SULPHONYL CHLORIDE			P					P			3
BENZENE TRI CARBOXYLIC ACID, TRI OCTYL ESTER			P					P			5
BENZOIC ACID			P					P			6
BENZOPHENONE			P					P			6
BENZOYL CHLORIDE			P					P			6
BENZYL ACETATE			P					P			3
BENZYL ALCOHOL			P					P			3
BENZYL CHLORIDE			P					P			2
BETA-PINENE			P					P			3
BETA-PROPIOLACTONE			P					P			2
BITUCHMEN		P	A				P	A			4
BITUMEN		P	A				P	A			4

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
BLEACH (CHLOROX 5%)			P					P			3
BORIC ACID			P					P			6
BRAKE FULID BASE MIX		P	A			P		A			5
BROMINE			P					P		7	6
BROMO CHLORO METHANE			P					P			3
BUTADIENE			P					P		1, 8	6
BUTANE									X	1,8	6
BUTENE OLIGOMER			P					P			3
BUTYL / DECYL / CETYL / EICOSYL METHACRYLATE			P					P			3
BUTYL ACETATE (ALL ISOMERS)			P					P			3
BUTYL ACRYLATE (ALL ISOMERS)			P					P			2
BUTYL ALCOHOL			P					P			5
BUTYL AMINE (ALL ISOMERS)			P					P			2
BUTYL BENZENE (ALL ISOMERS)			P					P			3
BUTYL BENZYL PHTHALATE			P					P			2
BUTYL BUTYRATE (ALL ISOMERS)			P					P			3
BUTYL MERCAPTAN			P					P			6
BUTYL METHACRYLATE			P					P			3
BUTYL PHENOL			P					P			6
BUTYL STEARATE			P					P			5
BUTYLENE GLYCOL			P					P			5
BUTYRALDEHYDE (ALL ISOMERS)			P					P			3
BUTYRIC ACID			P					P			3
CALCIUM ALKYL (C9) PHENOL SULFIDE / POLY OLEFI			P					P			2
CALCIUM CARBONATE			P					P			5
CALCIUM CHLORIDE			P					P		3	6
CALCIUM HYDROXIDE			P					P			5
CALCIUM HYPOCHLORITE SOLUTION (15% OR LESS)			P					P			3
CALCIUM HYPOCHLORITE SOLUTION (MORE THAN 15			P					P			3
CALCIUM LIGNO SULPHONATE SOLUTIONS			P					P			5
CALCIUM LONG-CHAIN ALKARYL SULPHONATE (C11			P					P			5
CALCIUM LONG-CHAIN ALKYL PHENATE SULFIDE (C8			P					P			5
CALCIUM LONG-CHAIN ALKYL PHENOLIC AMINE (C8-			P					P			5
CALCIUM LONG-CHAIN ALKYL SALICYLATE (C13+)			P					P			3
CALCIUM NITRATE / MAGNESIUM NITRATE / POTASSI			P					P			5
CAMPHOR OIL		P	A			P		A			2
CARAMEL SOLUTIONS			P					P			5
CARBOLIC ACID			P					P			6
CARBON DISULFIDE									X		2
CARBON TETRACHLORIDE			P					P			3
CASHEW NUT SHELL OIL (UNTREATED)		P	A			P		A			3
CASINGHEAD (NATURAL)		P	A			P		A			4
CELLOSOLVE ACETATE			P					P			6
CETYL / EICOSYL METHACRYLATE MIXTURE			P					P			3
CHLORINATED PARAFFINS (C10-C13)			P					P		2	5
CHLORINATED PARAFFINS (C14-C17) (WITH 52% CH			P					P		2	5
CHLORINE LIQUID									X	1	6
CHLORO ACETIC ACID			P					P			2
CHLORO BENZENE			P					P		7, 8	3
CHLORO SULFONIC ACID			P					P			1
CHLORO TOLUENES (MIXED ISOMERS)			P					P			2
CHLOROFORM			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
CHLOROHYDRINS (CRUDE)			P					P			2
CHLOROX 5%			P					P			3
CHOLINE CHLORIDE SOLUTIONS			P					P			5
CHROMIC ACID				P							6
CITRIC ACID (70% OR LESS)			P					P			5
CITRIC ACID WITH LIME			P					P			6
CLAY SLURRY	P				P						5
COAL SLURRY	P				P						5
COAL TAR		P	A			P		A			2
COAL TAR NAPHTHA SOLVENT		P	A			P		A			3
COAL TAR PITCH (MOLTEN)		P	A			P		A			3
COBALT NAPHTHENATE IN SOLVENT NAPHTHA			P					P			2
COCONUT OIL FATTY ACID			P					P			3
COCONUT OIL FATTY ACID METHYL ESTER			P					P			5
COPPER SULFATE			P					P			6
CREOSOTE		P	A			P		A			2
CREOSOTE (COAL TAR)		P	A			P		A			2
CREOSOTE (WOOD)		P	A			P		A			2
CRESOL (ALL ISOMERS)			P					P			2
CRESYLIC ACID			P					P			6
CRESYLIC ACID, DEPHENOLIZED			P					P			2
CRESYLIC ACID, SODIUM SALT SOLUTION			P					P			2
CROTON ALDEHYDE			P					P			2
CRUDE OIL		P	A			P		A			4
CRUDE OIL MIXTURES		P	A			P		A			4
CYCLO ALKANES (C10-C11)			P					P			5
CYCLO ALKANES (C12+)			P					P			5
CYCLO HEPTANE			P					P			3
CYCLO HEXANE			P					P			3
CYCLO HEXANOL			P					P			5
CYCLO HEXANONE			P					P			3
CYCLO HEXANONE, CYCLO HEXANOL MIXTURE			P					P			3
CYCLO HEXYL ACETATE			P					P			3
CYCLO HEXYL AMINE			P					P			3
CYCLO PENTADIENE			P					P			2
CYCLO PENTANE			P					P			3
CYCLO PENTENE			P					P			3
CYRSCO LIGHT RPS		P				P					6
DECA HYDRO NAPHTHALENE			P					P		2	5
DECANOIC ACID			P					P			3
DECENE			P					P			3
DECYL ACETATE			P					P			3
DECYL ACRYLATE			P					P			2
DECYL ALCOHOL (ALL ISOMERS)			P					P			3
DECYL OXY TETRA HYDRO THIOPHENE DIOXIDE			P					P			2
DEXTROSE SOLUTION			P					P			5
DI (2-ETHYL HEXYL) ADIPATE			P					P			5
DI (2-ETHYL HEXYL) PHOSPHORIC ACID			P					P			3
DI ACETONE ALCOHOL			P					P			6
DI ALKYL (C7-C13) PHTHALATES			P					P			5
DI BROMO METHANE			P					P			2
DI BUTYL AMINE			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
DI BUTYL HYDROGEN PHOSPHONATE			P					P			3
DI BUTYL PHTHALATE			P					P			2
DI CHLORO BENZENE (ALL ISOMERS)			P					P			2
DI CHLORO ETHANE			P					P			3
DI CHLORO ETHYL ETHER			P					P		1	2
DI CHLORO ETHYLENE			P					P			6
DI CHLORO METHANE			P					P			3
DI CHLORO PROPANE			P					P			2
DI CHLORO PROPENE / DI CHLORO PROPANE MIXTUR			P					P			2
DI CYCLO PENTADIENE			P					P			6
DI ETHANOL AMINE			P					P			3
DI ETHYL AMINE			P					P		1, 8	3
DI ETHYL AMINO ETHANOL			P					P			3
DI ETHYL BENZENE			P					P			3
DI ETHYL ETHER									X	1, 8	2
DI ETHYL PHTHALATE			P					P			3
DI ETHYL SULFATE			P					P			2
DI ETHYL TOLUENE AMINES			P					P			6
DI ETHYLENE GLYCOL			P					P			5
DI ETHYLENE GLYCOL DI BUTYL ETHER			P					P			5
DI ETHYLENE GLYCOL DI ETHYL ETHER			P					P			5
DI ETHYLENE GLYCOL PHTHALATE			P					P			5
DI ETHYLENE TRI AMINE			P					P			3
DI ETHYLENE TRI AMINE PENTA ACETIC ACID, PENTA			P					P			5
DI GLYCIDYL ETHER OF BISPHENOL A			P					P			3
DI GLYCIDYL ETHER OF BISPHENOL F			P					P			3
DI HEPTYL PHTHALATE			P					P			5
DI HEXYL PHTHALATE			P					P			5
DI ISO-BUTYL AMINE			P					P			2
DI ISO-BUTYL KETONE			P					P			5
DI ISO-BUTYL PHTHALATE			P					P			3
DI ISO-BUTYLENE			P					P			3
DI ISO-NONYL ADIPATE			P					P			5
DI ISO-OCTYL PHTHALATE			P					P			5
DI ISO-PROPANOL AMINE			P					P			3
DI ISO-PROPYL AMINE			P					P			2
DI ISO-PROPYL BENZENE (ALL ISOMERS)			P					P			2
DI ISO-PROPYL NAPHTHALENE (BB)			P					P			5
DI METHYL ACETAMIDE			P					P			3
DI METHYL ADIPATE			P					P			3
DI METHYL AMINE			P					P		8	2
DI METHYL AMINE SOLUTION (GREATER THAN 45% B			P					P		8	2
DI METHYL AMINE SOLUTION (GREATER THAN 55% B			P					P		8	2
DI METHYL AMINE SOLUTION (LESS THAN 45%)			P					P			3
DI METHYL ANILINE			P					P			6
DI METHYL ETHANOL AMINE			P					P		1, 8	3
DI METHYL FORMAMIDE			P					P			3
DI METHYL GLUTARATE			P					P			3
DI METHYL HYDROGEN PHOSPHITE			P					P			3
DI METHYL OCTANOIC ACID			P					P			3
DI METHYL PHTHALATE			P					P			3
DI METHYL POLY SILOXANE			P					P			5

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
DI METHYL SUCCINATE			P					P			3
DI METHYL SULFATE			P					P			6
DI N-HEXYL ADIPATE			P					P			3
DI N-PROPYL AMINE			P					P			3
DI NITRO METHY PHENOL			P					P			6
DI NITRO TOLUENE (MOLTEN)			P					P		2	2
DI NONYL PHTHALATE			P					P			5
DI OCTYL PHTHALATE			P					P			5
DI OCTYL ADIPATE			P					P			6
DI OCTYL PHTHALATE			P					P			5
DI PENTENE			P					P			3
DI PHENYL			P					P			1
DI PHENYL / DIPHENYL ETHER MIXTURES			P					P			1
DI PHENYL AMINE, REACTION PRODUCT WITH 2,2,4-T			P					P			1
DI PHENYL AMINES, ALKYLATED			P					P			2
DI PHENYL ETHER			P					P			3
DI PHENYL ETHER / DI PHENYL PHENYL ETHER MIXTU			P					P			1
DI PHENYL METHANE DI ISO-CYANATE			P					P			2
DI PHENYLOL PROPANE-EPICHLOROHYDRIN RESINS			P					P			3
DI PROPYLENE GLYCOL			P					P			5
DI TRIDECYL ADIPATE			P					P			5
DI TRIDECYL PHTHALATE			P					P			5
DI UNDECYL PHTHALATE			P					P			5
DIESEL OIL		P	A			P		A			4
DODECENE (ALL ISOMERS)			P					P			5
DODECENYL SUCCINIC ACID, DIPOTASSIUM SALT SO			P					P			5
DODECYL / PENTA DECYL METHACRYLATE MIXTURE			P					P			3
DODECYL ALCOHOL			P					P			3
DODECYL AMINE			P					P			6
DODECYL AMINE / TETRA DECYL AMINE MIXTURE			P					P			2
DODECYL BENZENE			P					P			5
DODECYL BENZENE SULFONIC ACID			P					P			6
DODECYL DI METHYL AMINE / TETRA DECYL DI METH			P					P			2
DODECYL DI PHENYL ETHER DI SULPHONATE SOLUTI			P					P			2
DODECYL METHACRYLATE			P					P			3
DODECYL PHENOL			P					P			1
DODECYL XYLENE			P					P			5
DRILLING BRINES			P					P			5
DRILLING BRINES, CONTAINING ZINC SALTS			P					P			3
EPICHLOROHYDRIN			P					P			2
EPOXYDIZED OILS			P					P			6
ETHANOL			P					P			5
ETHANOL AMINE			P					P			3
ETHYL 3-ETHOXY PROPIONATE			P					P			3
ETHYL ACETATE			P					P			5
ETHYL ACETOACETATE			P					P			5
ETHYL ACRYLATE			P					P			2
ETHYL ALCOHOL			P					P			5
ETHYL AMINE			P					P		1, 8	2
ETHYL AMINE SOLUTIONS (72% OR LESS)			P					P		1, 8	2
ETHYL AMYL KETONE			P					P			3
ETHYL BENZENE			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
ETHYL BUTYRATE			P					P			3
ETHYL CYCLO HEXANE			P					P			3
ETHYL HEXYL ACRYLATE			P					P			6
ETHYL METHACRYLATE			P					P			3
ETHYL PROPIONATE			P					P			5
ETHYL TOLUENE			P					P			3
ETHYLENE									X	1, 8	6
ETHYLENE / VINYL ACETATE COPOLYMER (EMULSIO			P					P			5
ETHYLENE CARBONATE			P					P			5
ETHYLENE CHLOROHYDRIN			P					P			2
ETHYLENE CYANOHYDRIN			P					P			3
ETHYLENE DI AMINE			P					P			2
ETHYLENE DI AMINE TETRA ACETIC ACID, TETRA SO			P					P			5
ETHYLENE DI BROMIDE			P					P			2
ETHYLENE DI CHLORIDE			P					P		1	2
ETHYLENE GLYCOL			P					P			5
ETHYLENE GLYCOL ACETATE			P					P			5
ETHYLENE GLYCOL BUTYL ETHER ACETATE			P					P			3
ETHYLENE GLYCOL DI ACETATE			P					P			3
ETHYLENE GLYCOL METHYL BUTYL ETHER			P					P			5
ETHYLENE GLYCOL METHYL ETHER ACETATE			P					P			3
ETHYLENE GLYCOL MONO ALKYL ETHERS			P					P			3
ETHYLENE GLYCOL PHENYL ETHER			P					P			5
ETHYLENE GLYCOL PHENYL ETHER / DI ETHYLENE G			P					P			5
ETHYLENE OXIDE			P					P		1, 7, 8	2
ETHYLENE OXIDE / PROPYLENE OXIDE MIXTURES WIT			P					P			2
ETHYLIDENE NORBORNENE			P					P			3
EXXON PLEXON 815			P					P			6
FATTY ACID (SATURATED C13+)			P					P			5
FERRIC CHLORIDE SOLUTIONS			P					P		3	3
FERRIC HYDROXY ETHYL ETHYLENE DIAMINE-TRIA			P					P			5
FERRIC NITRATE / NITRIC ACID SOLUTION			P					P		3	2
FISH SOLUBLES			P					P			5
FLEXSORB									X		6
FLUO SILICIC ACID									X		3
FLUO SILICIC ACID (20-30%) IN WATER SOLUTION									X		3
FORMALDEHYDE			P					P			3
FORMALDEHYDE BISULFITE			P					P			6
FORMALDEHYDE SOLUTIONS (45% OR LESS)			P					P			3
FORMAMIDE			P					P		5	5
FORMIC ACID									X		3
FORMIC ACID			P					P		3	3
FREON									X	1, 9	6
FUEL OIL NO. 1 (KEROSENE)		P	A			P		A			4
FUEL OIL NO. 1-D		P	A			P		A			4
FUEL OIL NO. 2		P	A			P		A			4
FUEL OIL NO. 2-D		P	A			P		A			4
FUEL OIL NO. 4		P	A			P		A			4
FUEL OIL NO. 5		P	A			P		A			4
FUEL OIL NO. 6		P	A			P		A			4
FUMARIC ADDUCT OF ROSIN, WATER DISPERSION			P					P			3
FURFURAL			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
FURFURAL ALCOHOL			P					P			3
GAMMA-BUTYROL ACTONE			P					P			5
GAS OIL		P	A			P		A			4
GASOLINE BLENDING STOCKS		P	A			P		A			4
GASOLINES		P	A			P		A			4
GLUCOSE SOLUTION			P					P			5
GLUTARALDEHYDE SOLUTIONS (50% OR LESS)			P					P			3
GLYCERINE			P					P			5
GLYCERINE (83%), DIOXANE DIMETHANOL (17%) MIX			P					P			5
GLYCEROL MONO OLEATE			P					P			5
GLYCEROL POLY ALKOXYLATE			P					P			5
GLYCERYL TRI ACETATE			P					P			5
GLYCIDYL ESTER C10 TRI ALKYL ACETIC ACID			P					P			3
GLYCINE, SODIUM SALT SOLUTION			P					P			5
GLYCOLIC ACID			P					P			6
GLYOXAL SOLUTION (40% OR LESS)			P					P			5
HALOXYFOP PYRIDINE			P					P		Chk	6
HEPTANE (ALL ISOMERS)		P	A			P		A			3
HEPTANOL (ALL ISOMERS)			P					P			3
HEPTENE (ALL ISOMERS)		P	A			P		A			3
HEPTYL ACETATE			P					P			3
HEXA METHYL DI SILICANE			P					P			6
HEXA METHYLENE DIAMINE ADIPATE (50% IN WATER)			P					P			5
HEXA METHYLENE DIAMINE SOLUTION			P					P			3
HEXA METHYLENE GLYCOL			P					P			5
HEXA METHYLENE IMINE			P					P			2
HEXA METHYLENE TETRAMINE			P					P			5
HEXA METHYLENE TETRAMINE SOLUTIONS			P					P			5
HEXANE (ALL ISOMERS)		P	A			P		A			3
HEXANOIC ACID			P					P			5
HEXANOL			P					P			5
HEXENE (ALL ISOMERS)		P	A			P		A			3
HEXYL ACETATE			P					P			3
HEXYLENE GLYCOL			P					P			5
HI SOL 15X (ASHLAND CHEMICAL)			P					P			6
HYDRAZINE									X		6
HYDRAZINE HYDROXIDE									X		6
HYDRO FLUO SILICIC ACID									X		6
HYDROBROMIC ACID									X		6
HYDROCHLORIC ACID									X		3
HYDROCHLORIC ACID, DILUTE			P					P		3	3
HYDROCYANIC ACID									X	7	6
HYDROFLUORIC ACID									X		6
HYDROGEN PEROXIDE				P						5	6
HYDROGEN PEROXIDE SOLUTIONS (OVER 60% BUT				P						5	2
HYDROGEN PEROXIDE SOLUTIONS (OVER 8% BUT N				P						5	3
HYDROGEN SULFIDE									X	7	6
HYDROXY ETHYL ACRYLATE			P					P			2
HYDROXY PROPYL ACRYLATE			P					P			6
HYPOCHLOROUS ACID									X		6
ICOSA (OXY PROPANE-2,3-DIYL) S			P					P			3
IMIDAZOLIDINE			P					P			6

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
IODINE			P					P			6
ISO-ALKANES (C10-C11)			P					P			5
ISO-ALKANES (C12+)			P					P			5
ISO-AMYL ALCOHOL			P					P			5
ISO-BUTYL ACRYLATE			P					P			6
ISO-BUTYL ALCOHOL			P					P			5
ISO-BUTYL FORMATE			P					P			5
ISO-OCTYL ACETATE			P					P			6
ISO-PENTANE		P	A			P		A		1, 8	3
ISO-PROPANOL AMINE			P					P			3
ISO-PROPYL ACETATE			P					P			5
ISO-PROPYL ALCOHOL			P					P			5
ISO-PROPYL AMINE			P					P		1	2
ISO-PROPYL AMINE (70% OR LESS) SOLUTION			P					P			2
ISO-PROPYL BENZENE			P					P			6
ISO-PROPYL CYCLO HEXANE			P					P			3
ISO-PROPYL ETHER			P					P			3
ISOFAST 161/14 (RECTICEL)			P					P			6
ISOPAR E		P	A			P		A			6
ISOPHORONE			P					P			5
ISOPHORONE DI AMINE			P					P			3
ISOPHORONE DI ISO-CYANATE			P					P			2
ISOPRENE			P					P		1	3
JET FUELS		P	A			P		A			4
JP-1 (KEROSENE)		P	A			P		A			4
JP-3		P	A			P		A			4
JP-4		P	A			P		A			4
JP-5 (KEROSENE, HEAVY)		P	A			P		A			4
KAOLIN SLURRY					P						5
KEROSENE		P	A			P		A			4
KRAFT LIQUOR			P					P			6
LACTIC ACID			P					P			5
LACTONITRILE SOLUTION (80% OR LESS)			P					P			2
LARD			P					P			5
LATEX, AMMONIAL (1% OR LESS) INHIBITED			P					P		4	5
LATEX: CARBOXYLATED STYRENE-BUTADIENE COP			P					P			5
LAURIC ACID			P					P			3
LIGNIN SULPHONIC ACID, SODIUM SALT SOLUTION			P					P			5
LIQUID CHEMICAL WASTES			P					P		8	2
LIQUID CO2									X		6
LITHIUM CHLORIDE				P			P				6
LONG-CHAIN ALKARYL POLY ETHER (C11-C20)			P					P			3
LONG-CHAIN ALKARYL SULPHONIC ACID (C16-C60)			P					P			5
LONG-CHAIN ALKYL PHENATE / PHENOL SULPHIDE M			P					P			5
LONG-CHAIN POLY ETHER AMINE IN ALKYL (C2-C4)			P					P			3
LONG-CHAIN POLY ETHER AMINE IN AROMATIC SOL			P					P			3
LUBRICATING OILS AND BLENDING STOCKS		P	A			P		A			4
M-CHLORO TOLUENE			P					P			3
MAGNESIUM CHLORIDE SOLUTION			P					P			5
MAGNESIUM HYDROXIDE			P					P			5
MAGNESIUM LONG-CHAIN ALKARYL SULPHONATE (P					P			5
MAGNESIUM LONG-CHAIN ALKYL SALICYLATE (C11			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
MAGNESIUM SULFATE			P					P			6
MALEIC ACID			P					P			6
MALEIC ANHYDRIDE			P					P		2	5
MERCAPTAN										9, Chk	6
MERCAPTO BENZO THIAZOL, SODIUM SALT SOLUTIO			P					P			3
MESITYL OXIDE			P					P			3
METAM SODIUM SOLUTION			P					P			2
METHACRYLIC ACID			P					P			3
METHACRYLIC RESIN IN ETHYLENE DICHLORIDE			P					P			2
METHACRYLONITRILE			P					P			2
METHANOL			P					P			5
METHOXY ACETOPHENONE			P					P			6
METHYL ACETATE			P					P			5
METHYL ACETOACETATE			P					P			5
METHYL ACRYLATE			P					P			2
METHYL ALCOHOL			P					P			5
METHYL AMINE SOLUTIONS (42% OR LESS)			P					P		8	2
METHYL AMYL ACETATE			P					P			3
METHYL AMYL ALCOHOL			P					P			3
METHYL AMYL KETONE			P					P			5
METHYL BUTENOL			P					P			5
METHYL BUTYL ETHER			P					P		1, 7, 8	5
METHYL BUTYL KETONE			P					P			5
METHYL BUTYNOL			P					P			5
METHYL BUTYRATE			P					P			3
METHYL CHLORIDE			P					P			6
METHYL CYCLO HEXANE			P					P			3
METHYL CYCLO PENTADIENE DIMER			P					P			3
METHYL DI ETHANOL AMINE			P					P			3
METHYL ETHYL KETONE			P					P			5
METHYL ETHYL SULFIDE				P			P				6
METHYL FORMATE			P					P		1, 8	2
METHYL HEPTYL KETONE			P					P			3
METHYL ISO-BUTYL KETONE			P					P			5
METHYL METHACRYLATE			P					P			2
METHYL MORPHOLENE			P					P			6
METHYL NAPHTHALENE (MOLTEN)			P					P			2
METHYL PHENOL			P					P			6
METHYL PROPYL KETONE			P					P			5
METHYL SALICYLATE			P					P			3
METHYL TERT-BUTYL ETHER			P					P			5
METHYL TERT-BUTYL SULFIDE			P					P			6
METHYLATED FORMALDEHYDE RESIN			P					P			6
METHYLENE CHLORIDE			P					P			6
MINERAL OIL		P	A				P	A			4
MINERAL SPIRITS		P	A				P	A			4
MOLASSES			P					P			5
MONO CHLORO BENZENE			P					P			3
MONO ETHYLENE AMINE			P					P			2
MORPHOLINE			P					P			3
MOTOR FUEL ANTI-KNOCK COMPOUNDS (CONTAININ			P					P			1
MOTOR OIL		P	A				P	A			4

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
MYRCENE			P					P			5
N-(2-METHOXY-1-METHYL ETHYL)-2-ETHYL-6-METH			P					P			3
N-(HYDROXY ETHYL) ETHYLENE DIAMINETRI ACETIC			P					P			5
N,N-DI METHYL ACETAMIDE SOLUTION (40% OR LES			P					P		8	3
N,N-DI METHYL CYCLO HEXYL AMINE			P					P		1, 8	2
N-ALKANES (C10+)			P					P			5
N-AMINO ETHYL PIPERAZINE			P					P			3
N-AMYL ALCOHOL			P					P			5
N-BUTYL ALCOHOL			P					P			5
N-BUTYL ETHER			P					P			3
N-BUTYL PROPIONATE			P					P			3
N-ETHYL BUTYL AMINE			P					P			3
N-ETHYL CYCLO HEXYL AMINE			P					P			3
N-HEPTANOIC ACID			P					P			5
N-METHYL GLUCAMINE SOLUTION (70% OR LESS)			P					P			5
N-METHYL PYRROLIDONE			P					P			5
N-METHYL-2-PYRROLIDONE			P					P			5
N-OCTYL ACETATE			P					P			3
N-PENTYL PROPIONATE			P					P			3
N-PROPANOL AMINE			P					P			3
N-PROPYL ACETATE			P					P			5
N-PROPYL ALCOHOL			P					P			5
N-PROPYL AMINE			P					P			2
N-PROPYL CHLORIDE										1	3
NAPHTHA		P	A			P		A			4
NAPHTHALENE			P					P			2
NAPHTHALENE (MOLTEN)			P					P			2
NAPHTHALENE SULPHONIC ACID-FORMALDEHYDE C			P					P			5
NAPHTHENIC ACIDS			P					P			2
NEODECANOIC ACID			P					P			3
NITRATING ACID (MIXTURE OF SULPHURIC AND NITRI									X		2
NITRIC ACID									X	Chk	2
NITRIC ACID (70% AND OVER)									X	Chk	2
NITRIC ACID (LESS THAN 70%)									X	Chk	2
NITRILLO TRI ACETIC ACID, TRI SODIUM SALT SOLUTIO			P					P			5
NITRO BENZENE				P			P			1, 8	2
NITRO ETHANE			P					P			3
NITRO ETHANE (80%) / NITRO PROPANE (20%)			P					P		9	3
NITRO PROPANE (60%) / NITRO ETHANE (40%) MIXT			P					P		9	3
NITROUS ACID									X	Chk	6
NO. 5 ANTIOXIDANT (VOF CORP)			P					P			6
NON-NOXIOUS LIQUID										9, Chk	5
NONANE (ALL ISOMERS)		P	A			P		A			3
NONANOIC ACID (ALL ISOMERS)			P					P			6
NONENE (ALL ISOMERS)		P	A			P		A			3
NONYL ACETATE			P					P			3
NONYL ALCOHOL (ALL ISOMERS)			P					P			3
NONYL METHACRYLATE			P					P		5	5
NONYL PHENOL			P					P			2
NONYL PHENOL POLY (4+) ETHOXYLATES			P					P			3
NOXIOUS LIQUIDS										9, Chk	1
NOXIOUS LIQUIDS										9, Chk	2

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
NOXIOUS LIQUIDS										9, Chk	5
NOXIOUS LIQUIDS										9, Chk	3
O-CHLORO NITRO BENZENE			P					P			2
O-CHLORO TOLUENE			P					P			3
O-ETHYL PHENOL			P					P			3
O-NITRO PHENOL (MOLTEN)			P					P			2
O-NITRO TOLUENE									X		2
O-TOLUIDINE			P					P			2
OCTANE (ALL ISOMERS)		P	A			P		A			3
OCTANOIC ACID (ALL ISOMERS)			P					P			5
OCTANOL (ALL ISOMERS)			P					P			3
OCTENE (ALL ISOMERS)		P	A			P		A			3
OCTYL ALDEHYDES			P					P			3
OCTYL DECYL ADIPATE			P					P			5
OIL (SHALE)		P	A			P		A			4
OLEFIN ALKYL ESTER COPOLYMER (MOLECULAR W			P					P			5
OLEFIN MIXTURES (C5-C15)			P					P			3
OLEFIN MIXTURES (C5-C7)			P					P			3
OLEFINS (C13+, ALL ISOMERS)			P					P			5
OLEIC ACID			P					P			5
OLEUM			P					P			2
OLEYL AMINE			P					P			2
ORANGE TURPID			P					P			6
P-CHLORO TOLUENE			P					P			2
P-CYMENE			P					P			3
P-NITRO TOLUENE									X		2
P-XYLENE			P					P			3
PALM KERNAL ACID OIL		P	A			P		A			3
PALM OIL FATTY ACID METHYL ESTER			P					P			5
PALM STEARIN			P					P			5
PAPER STOCK			P					P		Chk	6
PARAFFIN WAX			P					P		2	5
PARALDEHYDE			P					P			3
PENTA CHLORO ETHANE			P					P			2
PENTA ETHYLENE HEXAMINE			P					P			5
PENTANE (ALL ISOMERS) (BB)		P	A			P		A		1, 8	3
PENTANOIC ACID			P					P			5
PENTENE (ALL ISOMERS) (BB)		P	A			P		A		1, 8	3
PERCHLORO ETHYLENE			P					P			3
PETROLATUM		P	A			P		A			5
PETROLEUM		P	A			P		A			4
PETROLEUM DISTILLATE		P	A			P		A			4
PHENOL			P					P			2
PHENOL SULFONIC ACID			P					P			6
PHOSGENE									X		6
PHOSPHORIC ACID			P					P			3
PHOSPHORODITIOIC ACID ESTER			P					P			6
PHOSPHOROUS ACID			P					P			3
PHOSPHOROUS OXY CHLORIDE			P					P		5	6
PHOSPHOROUS TRICHLORIDE			P					P			6
PHOSPHORUS, YELLOW OR WHITE			P					P		2	1
PHTHALIC ANHYDRIDE (MOLTEN)									X	2	3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
PICRIC ACID SOLUTION			P					P		Chk	6
PINE OIL		P	A			P		A			3
POLIMERIC MDI ISOCYANATES			P					P			6
POLIMINE MDI ISOCYANATES			P					P			6
POLY (2+) CYCLIC AROMATICS			P					P			2
POLY (2-8) ALKYLENE GLYCOL MONO ALKYL (C1-C			P					P			5
POLY (2-8) ALKYLENE GLYCOL MONO ALKYL (C1-C			P					P			5
POLY (20) OXY ETHYLENE SORBITAN MONO OLEAT			P					P			5
POLY (4+) ISO-BUTYLENE			P					P			5
POLY (5+) PROPYLENE			P					P			5
POLY ALKYL (C18-C22) ACRYLATE IN XYLENE			P					P			3
POLY ALKYLENE OXIDE POLYOL			P					P			3
POLY ALUMINUM CHLORIDE SOLUTION			P					P			5
POLY BUTENE			P					P			5
POLY BUTENYL SUCCINIMIDE			P					P			5
POLY ETHER (MOLECULAR WEIGHT 2000+)			P					P			5
POLY ETHYLENE GLYCOL			P					P			5
POLY ETHYLENE GLYCOL DI METHYL ETHER			P					P			5
POLY ETHYLENE POLY AMINES			P					P			3
POLY GLYCERIN, SODIUM SALT SOLUTION (CONTAIN			P					P			5
POLY GLYCEROL			P					P			5
POLY METHYLENE POLY PHENYL ISO-CYANATE			P					P			2
POLY OLEFIN (MOLECULAR WEIGHT 300+)			P					P			5
POLY OLEFIN AMIDE ALKENE AMINE (C28+)			P					P			5
POLY OLEFIN AMIDE ALKENE AMINE / MOLYBDENUM			P					P			5
POLY OLEFIN AMIDE ALKENE AMINE BORATE (C28-C			P					P			5
POLY OLEFIN AMIDE ALKENE AMINE POLYOL			P					P			5
POLY OLEFIN AMINE IN ALKYL (C2-C4) BENZENES			P					P			3
POLY OLEFIN AMINE IN AROMATIC SOLVENT			P					P			3
POLY OLEFIN ANHYDRIDE			P					P			5
POLY OLEFIN ESTER (C28-C250)			P					P			5
POLY OLEFIN PHENOLIC AMINE (C28-C250)			P					P			5
POLY OLEFIN PHOSPHORO SULFIDE, BARIUM DERIVA			P					P			3
POLY PROPOXIDE DIOL			P					P			6
POLY PROPYLENE GLYCOL			P					P			5
POLY SILOXANE			P					P			5
POLY VINYL ACETATE			P					P			3
POLYFAST 161 (RECTICEL)			P					P			6
POLYFERRIC SULFATE SOLUTION			P					P		3	3
POTASSIUM CHLORIDE SOLUTION (10% OR MORE)			P					P			3
POTASSIUM CYANIDE				P			P				6
POTASSIUM DI CHROMATE			P					P			6
POTASSIUM HYDROXIDE										Chk	3
POTASSIUM HYDROXIDE (< 40%)			P					P		10	3
POTASSIUM LAURYL SULFATE			P					P			6
POTASSIUM OLEATE			P					P			3
POTASSIUM PERMANGANATE			P					P			6
POTASSIUM SULFATE			P					P			6
PROPANE									X	1, 8	6
PROPIO NITRILE			P					P			2
PROPION ALDEHYDE			P					P			3
PROPIONIC ACID			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
PROPIONIC ANHYDRIDE			P					P			3
PROPYL BENZENE (ALL ISOMERS)			P					P			3
PROPYLENE									X	1, 8	6
PROPYLENE DIMER			P					P		1, 8	3
PROPYLENE GLYCOL			P					P			5
PROPYLENE GLYCOL METHYL ETHER ACETATE			P					P			5
PROPYLENE GLYCOL MONO ALKYL ETHER			P					P			5
PROPYLENE GLYCOL MONOBUTYL ETHER			P					P			6
PROPYLENE OXIDE			P					P		1, 8	2
PROPYLENE TETRAMER			P					P			3
PROPYLENE TRIMER			P					P			3
PROPYLENE-BUTYLENE COPOLYMER			P					P			5
PYRIDINE			P					P		1, 7	3
REFORMATES		P	A			P		A			4
RESIDUAL FUEL OIL		P	A			P		A			4
ROSIN		P	A			P		A			3
ROSIN SOAP (DISPROPORTIONATED) SOLUTION			P					P			3
SEA WATER	P				P						6
SEC-AMYL ALCOHOL			X					P			5
SEC-BUTYL ALCOHOL			P					P			5
SHELL DURTEX 11A			P					P			6
SILICA AMORPHOUS			P					P			6
SODIUM ACETATE SOLUTIONS			P					P			5
SODIUM ALKYL (C14-C17) SULPHONATES 60-65% S			P					P			3
SODIUM ALUMIN SILICATE SLURRY			P					P			5
SODIUM ALUMINATE SOLUTION											3
SODIUM BENZOATE			P					P			5
SODIUM BISULFATE			P					P			6
SODIUM BISULFITE			P					P		4	6
SODIUM BOROHYDRIDE (15% OR LESS) / SODIUM HY									X		3
SODIUM BROMIDE			P					P			6
SODIUM CARBONATE SOLUTION			P					P			5
SODIUM CHLORATE SOLUTION (50% OR LESS)			P					P		5, 8	3
SODIUM CHLORIDE SOLUTION	P				P						6
SODIUM CYANIDE				P			P				6
SODIUM DICHROMATE SOLUTION (70% OR LESS)			P					P			2
SODIUM HYDRO SULFIDE									X		3
SODIUM HYDRO SULFIDE / AMMONIUM SULFIDE SOLU									X		3
SODIUM HYDROGEN SULFIDE (6% OR LESS)/(SODIUM									X		3
SODIUM HYDROGEN SULFITE SOLUTION (45% OR LE			P					P			3
SODIUM HYDROSULPHIDE SOLUTION (45% OR LESS)									X		3
SODIUM HYDROXIDE										Chk	3
SODIUM HYDROXIDE (< 40%)			P					P		10	3
SODIUM HYPOCHLORITE MIX			P					P			3
SODIUM HYPOCHLORITE SOLUTION (15% OR LESS)			P					P			3
SODIUM HYPOCHLORITE SOLUTION (30% OR LESS)			P					P			3
SODIUM LAURYL SULFATE			P					P			6
SODIUM NITRITE SOLUTION			P					P			2
SODIUM PETROLEUM SULFONATE			P					P			2
SODIUM PHOSPHATE			P					P			6
SODIUM POLY (4+) ACRYLATE SOLUTIONS			P					P			5
SODIUM SILICATE SOLUTION			P					P			3

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
SODIUM SULFATE SOLUTION			P					P			5
SODIUM SULFHYDRATE									X	7	6
SODIUM SULFIDE SOLUTION (15% OR LESS)				P			P				3
SODIUM SULFITE SOLUTION (25% OR LESS)			P					P			3
SODIUM TARTRATES / SODIUM SUCCINATES SOLUTI			P					P			3
SODIUM THIOCYANATE (50% OR LESS) SOLUTION									X		3
SOLVENT		P	A			P		A			4
SORBITOL SOLUTION			P					P			5
SPINDLE OIL		P	A			P		A			4
STYRENE			P					P			3
STYRENE MONOMER			P					P			3
SULFAMIC ACID			P					P			6
SULFANOLE			P					P			6
SULFOLANE			P					P			6
SULFOLENE			P					P			5
SULFONATES			P					P		Chk	6
SULFONIC ACIDS			P					P			6
SULFUR (MOLTEN)									X	2	3
SULFUR DICHLORIDE									X		6
SULFUR DIOXIDE									X		6
SULFURIC ACID (0-30%) (<125°F)			P					P			6
SULFURIC ACID (0-96%)									X		3
SULFURIC ACID (90-100%) (<125°F)			P					P			6
SULFURIC ACID (96-100%) (<125°F)			P					P			3
SULFURIC ACID (FUMING) (<125°F)			P					P			3
SULFURIC ACID, SPENT									X		3
SULPHO HYDROCARBON (C3-C88)			P					P			5
SULPHO HYDROCARBON LONG-CHAIN (C18+) ALKY			P					P			3
SUNDEX 8125		P				P					6
TALC			P					P			6
TALL OIL (CRUDE AND DISTILLED)		P	A			P		A			3
TALL OIL (FATTY ACID BARIUM SALT)		P	A			P		A			3
TALL OIL FATTY ACID (RESIN ACIDS LESS THAN 20		P	A			P		A			3
TALL OIL SOAP (DISPROPORTIONATED) SOLUTION			P					P			3
TALLOW			P					P			5
TALLOW FATTY ACID			P					P			5
TERT-AMYL ALCOHOL			P					P			5
TERT-BUTYL ALCOHOL			P					P			5
TERT-BUTYL AMINE			P					P			2
TETRA CHLORO ETHANE			P					P			3
TETRA ETHYL LEAD			P					P			1
TETRA ETHYLENE GLYCOL			P					P			5
TETRA ETHYLENE PENTAMINE			P					P			3
TETRA HYDRO FURAN			P					P			3
TETRA HYDRO NAPHTHALENE			P					P			3
TETRA METHYL BENZENE (ALL ISOMERS)			P					P			3
THIONYL CHLORIDE									X		6
TITANIUM DIOXIDE			P					P			6
TITANIUM TETRACHLORIDE			P					P		3	6
TOLUENE			P					P			3
TOLUENE DI AMINE			P					P			2
TOLUENE DI ISO-CYANATE			P					P			6

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
TOLUENE SULFONIC ACID			P					P			6
TOLUIDINE				P			P				2
TRANSFORMER OIL		P	A			P		A			4
TRI BUTYL PHOSPHATE			P					P			2
TRI CESYL PHOSPHATE (CONTAINING 1% OR MORE			P					P			1
TRI CESYL PHOSPHATE (CONTAINING LESS THAN 1			P					P			2
TRI CHLORO ACETIC ACID			P					P			6
TRI CHLORO ETHANE			P					P			3
TRI CHLORO ETHYLENE			P					P			6
TRI CHLOROETHYLENE			P					P			3
TRI DECANOIC ACID			P					P			3
TRI DECYL ACETATE			P					P			5
TRI ETHANOL AMINE			P					P			3
TRI ETHYL AMINE			P					P			2
TRI ETHYL BENZENE			P					P			2
TRI ETHYL PHOSPHATE			P					P			5
TRI ETHYL PHOSPHITE			P					P			2
TRI ETHYLENE GLYCOL			P					P			5
TRI ETHYLENE TETRAMINE			P					P			3
TRI ISO-PROPANOL AMINE			P					P			5
TRI ISO-PROPYLATED PHENYL PHOSPHATES			P					P			2
TRI METHYL ACETIC ACID			P					P			3
TRI METHYL AMINE SOLUTION (30% OR LESS)			P					P			2
TRI METHYL BENZENES (ALL ISOMERS)			P					P			3
TRI METHYL HEXA METHYLENE DIAMINE (2,2,4- AND			P					P			3
TRI METHYL HEXAMETHYLENE DI ISO-CYANATE (2.2.			P					P			2
TRI METHYL PHOSPHITE			P					P			3
TRI METHYLOL PROPANE POLY ETHOXYLATE			P					P			5
TRI PROPYLENE GLYCOL			P					P			5
TRI XYLYL PHOSPHATE			P					P			1
TRIDECANE			P					P			5
TURBO FUEL		P	A			P		A			4
TURPENTINE		P	A			P		A			3
UNDECANOIC ACID			P					P			3
UNDECYL ALCOHOL			P					P			3
UREA / AMMONIUM MONO- AND DI-HYDROGEN PHOS			P					P			5
UREA / AMMONIUM NITRATE SOLUTION			P					P			5
UREA / AMMONIUM NITRATE SOLUTION (CONTAINING			P					P			3
UREA / AMMONIUM PHOSPHATE SOLUTION			P					P			5
UREA / FORMALDLEHYDE RESIN SOLUTION			P					P			5
UREA SOLUTION			P					P			5
VALERALDEHYDE (ALL ISOMERS)			P					P			3
VEGETABLE ACID OILS AND DISTILLATES		P	A			P		A			5
VEGETABLE OILS		P	A			P		A			5
VEGETABLE PROTEIN SOLUTION (HYDROLYSED)			P					P			5
VINYL ACETATE			P					P			3
VINYL ACETATE MONOMER			P					P			3
VINYL CHLORIDE			P					P			6
VINYL ETHYL ETHER			P					P			2
VINYL NEODECANOATE			P					P			3
VINYL TOLUENE			P					P			3
VINYLDENE CHLORIDE			P					P			2

CHEMICAL NAME	LA	LA -HN	LA -HP	LA -AF	AGS	PGS /HN	CGS	CGS /HP	No Sensor	Notes	IMO Code
VISCOSE			P					P			6
WATER	P				P						5
WAXES			P					P		2	5
WHITE LIQUOR			P					P			6
WHITE SPIRIT, LOW (15-20%) AROMATIC			P					P			2
XANTHATES			P					P			3
XYLENE			P					P			3
XYLENOL			P					P			3
ZINC ALKENYL CARBOXAMIDE			P					P			5
ZINC CHLORIDE			P					P			6
ZINC MONO HYDRATE			P					P			6
ZINC ORTHO PHOSPHATE			P					P			6
ZINC SULFATE			P					P			6
ZINC ALKARYL DI THIO PHOSPHATES (C7-C16)			P					P			3
ZINC ALKYL DI THIO PHOSPHATE (C3-C14)			P					P			3

Suggested Sensor Types for Common Chemicals

Application Notes

General:

a. Temperature

Always verify long-term and short-term operating temperature ranges are within limits specified on sensor sales data sheets. High short-term temperature may occur during uncontrolled filling operations.

b. Pressure

Always verify operating pressure including momentary high and low pressures are within limits specified on sensor sales data sheets. If pressures are greater than ± 1 psi., verify rate of pressurization and, most importantly, rate of depressurization.

Notes:

1. Low Boiling Point / High Pressure

These materials have a high vapor pressure and may be shipped in sealed (pressurized) containers or at very cold temperatures. Check low temperature and high pressure limits specified on sensor sales data sheet.

2. High Melting Point / High Temperature

These materials must be shipped at high temperatures to be kept as a liquid. The sensor may be overheated during filling operations. Check high temperature limits specified on sensor sales data sheet. Check for any conditions that might cause the materials to solidify.

3. Free Acid

These solutions may contain strong free acids that may harm the sensor over a long period of time. The application is acceptable if the pH is greater than 4.

4. Strong Alkali

These solutions may contain free alkali in solution. The application is acceptable if the pH is less than 10.

5. Reactive Material

The material may be reactive to other materials (possibly including water) that may be present. Impurities may be left over from tank cleaning or prior tank usage. Caution is recommended.

6. Decomposition

The material may decompose over time that in a way that may effect the sensor. Check the decomposition products formed.

7. Toxic / Do Not Return

The material may be hazardous to personnel.

8. Flammability

This material is dangerously flammable.

9. Wide Range of Chemicals

There are many chemicals in this "family" of chemicals. Compatibility cannot be generalized and must be judged on a case by case basis.

10. OK at Room Temperature

This chemical is OK at temperatures below 100°F [40°C].

Chk Check with Factory

More details are required to determine compatibility.

IMO / Product Codes

1. Chemical for which the IBC Code Applies - Ship Type 1
2. Chemical for which the IBC Code Applies - Ship Type 2
3. Chemical for which the IBC Code Applies - Ship Type 3
4. Petroleum Products
5. Chemical for Which the IBC Code Does Not Apply
6. Chemical Not Listed