

Chemical name	Group No.	Foot-note	CHRIS Code	Related CHRIS Codes
Zinc bromide, Calcium bromide solution, see Drilling brine (containing Zinc salts).	.....	.....		DZB

1. Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO), U.S. Coast Guard, 2100 Second Street, SW., Washington, DC 20593-0001. Telephone (202) 372-1425.

2. See Appendix I—Exceptions to the Chart.

[USCG 2000-7079, 65 FR 67162, Nov. 8, 2000, as amended by USCG-2006-25697, 71 FR 55746, Sept. 25, 2006; USCG-2008-0906, 73 FR 56510, Sept. 29, 2008; USCG-2009-0702, 74 FR 49236, Sept. 25, 2009; USCG-2010-0759, 75 FR 60003, Sept. 29, 2010]

TABLE II TO PART 150—GROUPING OF CARGOES

0. UNASSIGNED CARGOES

Acetone cyanohydrin<sup>1,2</sup>  
 Alkylbenzenesulfonic acid<sup>1,2</sup>  
 Aluminium chloride, Hydrochloric acid solution<sup>1</sup>  
 Ammonium hydrogen phosphate solution<sup>1</sup>  
 Ammonium nitrate solution<sup>1</sup>  
 Ammonium thiocyanate, Ammonium thiosulfate solution<sup>1</sup>  
 Benzenesulfonyl chloride<sup>1,2</sup>  
 gamma-Butyrolactone<sup>1,2</sup>  
 Chlorine<sup>1</sup>  
 Chlorosulfonic acid<sup>1</sup>  
 Decyloxytetrahydro-thiophene dioxide<sup>2</sup>  
 tert-Dodecanethiol<sup>2</sup>  
 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution<sup>1,2</sup>  
 Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution<sup>1,2</sup>  
 Diphenylol propane-Epichlorohydrin resins<sup>1</sup>  
 Dodecylbenzenesulfonic acid<sup>1,2</sup>  
 Dodecyl hydroxypropyl sulfide<sup>2</sup>  
 Ethylene oxide<sup>1</sup>  
 Hydrogen peroxide solutions<sup>1</sup>  
 Lactic acid<sup>2</sup>  
 Long chain alkaryl sulfonic acid (C16-C60)<sup>2</sup>  
 Magnesium chloride solution<sup>1,2</sup>  
 Molasses residue<sup>1</sup>  
 Motor fuel antiknock compounds containing Lead alkyls<sup>1</sup>  
 Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution<sup>1</sup>  
 NIAX POLYOL APP 240C<sup>1,2</sup>  
 Nitrating acid<sup>1</sup>  
 Nitric acid (greater than 70%)<sup>1</sup>  
 o-Nitrophenol<sup>1,2</sup>  
 Noxious Liquid Substance, n.o.s. (NLS's)<sup>1</sup>  
 Oleum<sup>1,2</sup>  
 Phosphorus<sup>1</sup>  
 Phthalate based polyester polyol<sup>2</sup>  
 SAP 7001<sup>1</sup>  
 Sodium chlorate solution<sup>1,2</sup>  
 Sodium dichromate solution<sup>1,2</sup>  
 Sodium hydrogen sulfide, Sodium carbonate solution<sup>1,2</sup>  
 Sodium sulfide, Hydrosulfide solution<sup>1,2</sup>  
 Sodium thiocyanate solution<sup>1,2</sup>  
 Sulfur<sup>1</sup>

Tall oil fatty acid, barium salt<sup>2</sup>  
 Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution

1. NON-OXIDIZING MINERAL ACIDS

Di-(2-ethylhexyl)phosphoric acid  
 Ferric chloride solution  
 Fluorosilicic acid  
 Hydrochloric acid  
 Phosphoric acid  
 Polyaluminum chloride solution

2. SULFURIC ACIDS

Sulfuric acid<sup>2</sup>  
 Sulfuric acid, spent  
 Titanium tetrachloride

3. NITRIC ACID

Ferric nitrate, Nitric acid solution  
 Nitric acid (70% or less)

4. ORGANIC ACIDS

Acetic acid<sup>2</sup>  
 Acrylic acid<sup>2</sup>  
 Butyric acid  
 Cashew nut shell oil (untreated)  
 Citric acid  
 Chloroacetic acid solution  
 Chloropropionic acid  
 Decanoic acid  
 2,2-Dichloropropionic acid  
 2,2-Dimethyloctanoic acid  
 2-Ethylhexanoic acid  
 Formic acid<sup>2</sup>  
 Glycolic acid  
 Glyoxylic acid  
 n-Heptanoic acid  
 Hexanoic acid  
 2-Hydroxy-4-(methylthio)butanoic acid  
 Methacrylic acid  
 Naphthenic acid  
 Neodecanoic acid  
 Nonanoic acid  
 Nonanoic, Tridecanoic acid mixture  
 Octanoic acid  
 n-Pentanoic acid, 2-Methyl butyric acid mixture  
 Pentanoic acid  
 Propionic acid  
 Trimethylacetic acid  
 Undecanoic acid

## 5. CAUSTICS

Ammonium sulfide solution  
 Calcium hypochlorite solutions  
 Caustic potash solution<sup>2</sup>  
 Caustic soda solution<sup>2</sup>  
 Cresylate spent caustic  
 Cresylic acid, sodium salt solution  
 Kraft black liquor  
 Kraft pulping liquors  
 Mercaptobenzothiazol, sodium salt solution  
 Potassium hydroxide solution<sup>2</sup>  
 Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide)  
 Sodium aluminate solution  
 Sodium borohydride, Sodium hydroxide solution  
 Sodium carbonate solutions  
 Sodium cyanide solution  
 Sodium hydrosulfide solution<sup>2</sup>  
 Sodium hydrosulfide, Ammonium sulfide solution<sup>2</sup>  
 Sodium hydroxide solution<sup>2</sup>  
 Sodium hypochlorite solution  
 Sodium 2-mercaptobenzothiazol solution  
 Sodium naphthenate solution  
 Sodium nitrite solution  
 Triphenylborane, Caustic soda solution  
 Trisodium phosphate solution  
 Vanillin black liquor

## 6. AMMONIA

Ammonia, anhydrous  
 Ammonia, aqueous  
 Ammonium hydroxide (28% or less Ammonia)  
 Ammonium nitrate, Urea solution (containing Ammonia)  
 Urea, Ammonium nitrate solution (containing Ammonia)

## 7. ALIPHATIC AMINES

N-Aminoethylpiperazine  
 Butylamine  
 Cyclohexylamine  
 Dibutylamine  
 Diethylamine<sup>2</sup>  
 Diethylenetriamine<sup>2</sup>  
 Diisobutylamine  
 Diisopropylamine  
 Dimethylamine  
 Dimethylamine solution  
 N,N-Dimethylcyclohexylamine  
 N,N-Dimethyldodecylamine  
 Di-n-propylamine  
 Diphenylamine, reaction product with 2,2,4-Trimethylpentene  
 Diphenylamines, alkylated  
 Dodecylamine, Tetradecylamine mixture<sup>2</sup>  
 Dodecyldimethylamine,  
 Tetradecyldimethylamine mixture  
 Ethylamine<sup>2</sup>  
 Ethylamine solution  
 Ethyleneamine EA 1302<sup>2</sup>  
 N-Ethyl-n-butylamine  
 N-Ethyl cyclohexylamine

Ethylenediamine<sup>2</sup>  
 2-Ethyl hexylamine  
 N-Ethylmethylallylamine  
 Glyphosate solution (not containing surfactant)  
 Hexamethylenediamine  
 Hexamethylenediamine solution  
 Hexamethylenetetramine  
 Hexamethylenetetramine solutions  
 Hexamethylenimine  
 HiTec 321  
 bis-(Hydrogenated tallow alkyl)methyl amines  
 Isophorone diamine  
 Long chain polyetheramine in alkyl(C2–C4)benzenes  
 Metam sodium solution  
 Methylamine solutions  
 Morpholine<sup>2</sup>  
 Oleylamine  
 Pentaethylenehexamine  
 Pentaethylenehexamine,  
 Tetraethylene-pentamine mixture  
 Phosphate esters, alkyl (C12–C14) amine  
 Polyethylene polyamines<sup>2</sup>  
 Polyolefin amide alkeneamine (C28+)  
 Polyisobutenamine in aliphatic (C10–C14) solvent  
 Poly (C17+) olefin amine  
 Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture  
 Propanil, Mesityl oxide, Isophorone mixture  
 Propylamine  
 iso-Propylamine solution  
 Roundup  
 Sulfohydrocarbon, long chain (C18+) alkylamine mixture  
 Tetraethylene-pentamine<sup>2</sup>  
 Triethylamine  
 Triethylenetetramine<sup>2</sup>  
 Trimethylamine solution  
 Trimethylhexamethylene diamine (2,2,4- and 2,4,4-)

## 8. ALKANOLAMINES

2-(2-Aminoethoxy)ethanol  
 Aminoethyldiethanolamine,  
 Aminoethylethanolamine solution  
 Aminoethylethanolamine  
 2-Amino-2-methyl-1-propanol  
 Diethanolamine  
 Diethylaminoethanol  
 Diethylethanolamine  
 Diisopropanolamine  
 Dimethylethanolamine  
 Ethanolamine  
 Ethoxylated long chain (C16+) alkyloxyalkanamine  
 Methyl diethanolamine  
 Propanolamine  
 Triethanolamine<sup>2</sup>  
 Triisopropanolamine  
 Ucarsol CR Solvent 302 SG

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## 9. AROMATIC AMINES

Alkyl (C8-C9) phenylamine in aromatic solvents  
 Aniline  
 Calcium long chain alkyl phenolic amine (C8-C40)  
 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution  
 Dialkyl (C8-C9) diphenylamines  
 2,6-Diethylaniline  
 Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution  
 2,6-Dimethylaniline  
 Diphenylamine  
 2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline  
 2-Methyl-6-ethyl aniline  
 2-Methyl-5-ethyl pyridine  
 Methyl pyridine  
 3-Methylpyridine  
 N-Methyl-2-pyrrolidone<sup>2</sup>  
 Paraldehyde-Ammonia reaction product  
 Pyridine  
 Pyridine bases  
 Toluenediamine  
 p-Toluidine

## 10. AMIDES

Acetochlor  
 Acrylamide solution  
 Alkenyl(C11+)amide  
 N,N-Dimethylacetamide  
 N,N-Dimethylacetamide solution  
 Dimethylformamide  
 Formamide  
 N,N-bis(2-Hydroxyethyl) oleamide  
 Octadecenoamide  
 Zinc alkenyl carboxamide

## 11. ORGANIC ANHYDRIDES

Acetic anhydride  
 Alkenylsuccinic anhydride  
 Maleic anhydride  
 Phthalic anhydride  
 Polyisobutenyl anhydride adduct  
 Polyolefin anhydride  
 Propionic anhydride

## 12. ISOCYANATES

Diphenylmethane diisocyanate  
 Hexamethylene diisocyanate  
 Isophorone diisocyanate  
 Polymethylene polyphenyl isocyanate  
 Toluene diisocyanate  
 Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)

## 13. VINYL ACETATE

Vinyl acetate  
 Vinyl ethyl ether  
 Vinyl neodecanate  
 Vinyl toluene

## 14. ACRYLATES

Butyl acrylate

Butyl methacrylate  
 Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture  
 Cetyl-Eicosyl methacrylate mixture  
 Decyl acrylate  
 Dodecyl methacrylate  
 Dodecyl-Octadecyl methacrylate mixture  
 Dodecyl-Pentadecyl methacrylate mixture  
 Ethyl acrylate  
 2-Ethylhexyl acrylate  
 Ethyl methacrylate  
 2-Hydroxyethyl acrylate<sup>2</sup>  
 Methacrylic resin in Ethylene dichloride  
 Methyl acrylate  
 Methyl methacrylate  
 Nonyl methacrylate  
 Polyalkyl(C18 - C22) acrylate in Xylene  
 Polyalkyl (C10-C18) methacrylate/Ethylene  
 Polyalkyl (C10-C20) methacrylate  
 Propylene copolymer mixture  
 Rohm monomer 6615

## 15. SUBSTITUTED ALLYLS

Acrylonitrile<sup>2</sup>  
 Allyl alcohol<sup>2</sup>  
 Allyl chloride  
 1,3-Dichloropropene  
 Dichloropropene, Dichloropropane mixtures  
 Methacrylonitrile

## 16. ALKYLENE OXIDES

Butylene oxide  
 Ethylene oxide, Propylene oxide mixtures  
 Propylene oxide

## 17. EPICHLOROXYDRIN

Chlorohydrins  
 Epichlorohydrin

## 18. KETONES

Acetone<sup>2</sup>  
 Acetophenone  
 Amyl methyl ketone  
 Butyl heptyl ketone  
 Camphor oil  
 1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one<sup>2</sup>  
 Cyclohexanone  
 Cyclohexanone, Cyclohexanol mixtures<sup>2</sup>  
 Diisobutyl ketone  
 Ethyl amyl ketone  
 Epoxy resin  
 Ketone residue  
 Isophorone<sup>2</sup>  
 Mesityl oxide<sup>2</sup>  
 Methyl amyl ketone  
 Methyl butyl ketone  
 Methyl butyl ketone  
 Methyl ethyl ketone<sup>2</sup>  
 Methyl heptyl ketone  
 Methyl isoamyl ketone  
 Methyl isobutyl ketone<sup>2</sup>  
 Methyl propyl ketone  
 Trifluralin in Xylene

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## 19. ALDEHYDES

Acetaldehyde  
 Acrolein<sup>2</sup>  
 Butyraldehyde  
 Crotonaldehyde<sup>2</sup>  
 Decaldehyde  
 Ethylhexaldehyde  
 2-Ethyl-3-propylacrolein<sup>2</sup>  
 Formaldehyde, Methanol mixtures<sup>2</sup>  
 Formaldehyde solution<sup>2</sup>  
 Furfural  
 Glutaraldehyde solution  
 Glyoxal solutions  
 3-Methyl butyraldehyde  
 Methylolureas  
 3-(Methylthio)propionaldehyde  
 Octyl aldehyde  
 Paraldehyde  
 Pentyl aldehyde  
 Propionaldehyde  
 Valeraldehyde

## 20. ALCOHOLS, GLYCOLS

Acrylonitrile-Styrene copolymer dispersion in Polyether polyol  
 Alcoholic beverages  
 Alcohol polyethoxylates  
 Alcohol polyethoxylates, secondary  
 Alcohols (C13+)  
 Amyl alcohol  
 Behenyl alcohol  
 Brake fluid base mixtures  
 1,4-Butanediol  
 Butyl alcohol<sup>2</sup>  
 Butylene glycol<sup>2</sup>  
 Cetyl-Stearyl alcohol  
 Choline chloride solutions  
 Cyclohexanol  
 Decyl alcohol<sup>2</sup>  
 Diacetone alcohol<sup>2</sup>  
 Diethyl hexanol  
 Diisobutyl carbinol  
 2,2-Dimethylpropane-1,3-diol  
 Dodecanol  
 Dodecyl alcohol  
 Ethoxylated alcohols, C11-C15  
 2-Ethoxyethanol  
 Ethyl alcohol<sup>2</sup>  
 Ethyl butanol  
 Ethylene chlorohydrin  
 Ethylene cyanohydrin  
 Ethylene glycol<sup>2</sup>  
 2-Ethylhexanol  
 Furfuryl alcohol<sup>2</sup>  
 Glycerine<sup>2</sup>  
 Glycerine, Dioxanedimethanol mixture  
 Glycerol monooleate  
 Heptanol  
 Hexamethylene glycol  
 Hexanol  
 Hexylene glycol  
 Hydroxy terminated polybutadiene  
 Icosa(oxypropane-2,3-diyl)s  
 Lauryl polyglucose (50% or less)  
 3-Methoxy-1-butanol  
 Methyl alcohol<sup>2</sup>

Methyl amyl alcohol  
 Methyl butenol  
 Methylbutynol  
 2-Methyl-2-hydroxy-3-butyne  
 Methyl isobutyl carbinol  
 3-Methyl-3-methoxybutanol  
 2-Methyl-1,3-propanediol  
 Molasses  
 Nonyl alcohol<sup>2</sup>  
 Octanol<sup>2</sup>  
 Octyl alcohol<sup>2</sup>  
 Penacosa(oxypropane-2,3-diyl)s  
 Pentadecanol  
 Polyalkylene oxide polyol  
 Polybutadiene, hydroxy terminated  
 Polyglycerol  
 Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide)<sup>2</sup>  
 Polyolefin amide alkeneamine polyol  
 Propyl alcohol<sup>2</sup>  
 Propylene glycol<sup>2</sup>  
 Rum  
 Sorbitol solutions  
 Stearyl alcohol  
 Tallow fatty alcohol  
 Tetradecanol  
 Tridecanol  
 Trimethyl nonanol  
 Trimethylol propane polyethoxylate  
 Undecanol  
 Undecyl alcohol

## 21. PHENOLS, CRESOLS

Benzyl alcohol  
 Carbolic oil  
 Creosote<sup>2</sup>  
 Cresols  
 Cresylic acid  
 Cresylic acid dephenolized  
 Cresylic acid, tar  
 Dibutylphenols  
 2,4-Dichlorophenol  
 Dodecyl phenol  
 o-Ethylphenol  
 Long chain alkylphenate/phenol sulfide mixture  
 Nonyl phenol  
 Octyl phenol  
 Phenol  
 Xylenols

## 22. CAPROLACTAM SOLUTIONS

Caprolactam solution

## 23–29. UNASSIGNED

## 30. OLEFINS

Amylene  
 Aryl polyolefin (C11–C50)  
 Butadiene  
 Butadiene, Butylene mixtures (cont. Acetylenes)  
 Butene  
 Butene oligomer  
 Butylene  
 1,5,9-Cyclododecatriene

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1,3-Cyclopentadiene dimer  
 Cyclopentadiene, Styrene, Benzene mixture  
 Cyclopentene  
 Decene  
 Dicyclopentadiene  
 Diisobutylene  
 Dipentene  
 Dodecene  
 Ethylene  
 Ethylene-Propylene copolymer  
 Ethylidene norbornene<sup>2</sup>  
 1-Heptene  
 Hexene  
 Isoprene  
 Isoprene concentrate (Shell)  
 Latex (ammonia (1% or less) inhibited)  
 Methyl acetylene, Propadiene mixture  
 Methyl butene  
 Methylcyclopentadiene dimer  
 2-Methyl-1-pentene  
 4-Methyl-1-pentene  
 alpha-Methyl styrene  
 Myrcene  
 Nonene  
 1-Octadecene  
 Octene  
 Olefin mixtures  
 alpha-Olefins (C6 - C18) mixtures  
 alpha-Olefins (C13+)  
 1,3-Pentadiene  
 Pentene  
 alpha-Pinene  
 beta-Pinene  
 Polybutene  
 Poly(4+)isobutylene  
 Polyolefin (molecular weight 300+)  
 Polypropylene  
 Poly(5+)propylene  
 Propylene  
 Propylene-butylene copolymer  
 Propylene dimer  
 Propylene, Propane, MAPP gas mixture  
 Propylene tetramer  
 Propylene trimer  
 Styrene monomer  
 Tetradecene  
 Tridecene  
 Triisobutylene  
 Tripropylene  
 Turpentine  
 Undecene

## 31. PARAFFINS

Alkanes (C6-C9)  
 n-Alkanes (C10+)  
 iso- & cyclo-Alkanes (C10-C11)  
 iso- & cyclo-Alkanes (C12+)  
 Butane  
 Cycloheptane  
 Cyclohexane  
 Cyclopentane  
 Decane  
 Dodecane  
 Ethane  
 Ethyl cyclohexane  
 Heptane

Hexane<sup>2</sup>  
 Methane  
 Methylcyclohexane  
 2-Methyl pentane  
 Nonane  
 Octane  
 Pentane  
 Propane  
 iso-Propylcyclohexane  
 Tridecane  
 Waxes:  
 Paraffin

## 32. AROMATIC HYDROCARBONS

Alkyl(C3-C4)benzenes  
 Alkyl(C5-C8)benzenes  
 Alkyl(C9+)benzenes  
 Alkyl acrylate-Vinyl pyridine copolymer in Toluene  
 Alkylbenzene, Alkylindane, Alkylindene mixture (each C12-C17)  
 Benzene  
 Benzene hydrocarbon mixtures (having 10% Benzene or more)  
 Benzene, Toluene, Xylene mixtures  
 Butylbenzene  
 Butyl phenol, Formaldehyde resin in Xylene  
 Butyl toluene  
 Cumene  
 Cymene  
 Decylbenzene  
 Dialkyl(C10 - C14) benzenes  
 Diethylbenzene  
 Diisopropylbenzene  
 Diisopropyl naphthalene  
 Diphenyl  
 Dodecylbenzene  
 Dodecyl xylene  
 Ethylbenzene  
 Ethyl toluene  
 1-Hexadecylnaphthalene, 1,4-bis(Hexadecyl)  
 Isopropylbenzene  
 Methyl naphthalene  
 Naphthalene  
 Naphthalene mixture  
 Naphthalene still residue  
 1-Phenyl-1-xylyl ethane  
 Poly(2+)cyclic aromatics  
 Polyolefin amine in alkylbenzenes (C2-C4)  
 Propylbenzene  
 Pseudocumene  
 C9 Resinfeed (DSM)<sup>2</sup>  
 Tetradecylbenzene  
 Tetrahydronaphthalene  
 1,2,3,5-Tetramethylbenzene  
 Toluene  
 Tridecylbenzene  
 Triethylbenzene  
 Trimethylbenzene  
 Undecylbenzene  
 Xylene  
 Xylenes, Ethylbenzene mixture

## 33. MISCELLANEOUS HYDROCARBON MIXTURES

Alachlor

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Alkylbenzenesulfonic acid, sodium salt solutions  
 Alkyl dithiothiadiazole (C6-C24)  
 Asphalt blending stocks, roofers flux  
 Asphalt blending stocks, straight run residue  
 Asphalt emulsion  
 Aviation alkylates  
 Calcium sulfonate, Calcium carbonate, Hydrocarbon solvent mixture  
 Coal tar  
 Coal tar distillate  
 Coal tar, high temperature  
 Coal tar pitch  
 Decahydronaphthalene  
 Degummed C9 (DOW)  
 Diphenyl, Diphenyl ether  
 Distillates, flashed feed stocks  
 Distillates, straight run  
 Drilling mud (low toxicity) (*if flammable or combustible*)  
 Gas oil, cracked  
 Gasoline blending stock, alkylates  
 Gasoline blending stock, reformates  
 Gasolines:  
   Automotive (*not over 4.23 grams lead per gal.*)  
   Aviation (*not over 4.86 grams lead per gal.*)  
   Casinghead (*natural*)  
   Polymer  
   Straight run  
 Jet Fuels:  
   JP-4  
   JP-5  
   JP-8  
 Kerosene  
 Mineral spirits  
 Naphtha:  
   Coal tar solvent  
   Petroleum  
   Solvent  
   Stoddard solvent  
   Varnish Makers' and Painters'  
 Oil, fuel:  
   No. 1  
   No. 1-D  
   No. 2  
   No. 2-D  
   No. 4  
   No. 5  
   No. 6  
 Oil, misc:  
   Aliphatic  
   Aromatic  
   Clarified  
   Coal  
   Crude  
   Diesel  
   Gas, high pour  
   Heartcut distillate  
   Linseed  
   Lubricating  
   Mineral  
   Mineral seal  
   Motor  
   Neatsfoot  
   Penetrating

Pine  
 Rosin  
 Sperm  
 Spindle  
 Turbine  
 Residual  
 Road  
 Transformer  
 Oxyalkylated alkyl phenol formaldehyde  
 Petrolatum  
 Pine oil  
 Polyolefin amine (C28-C250)  
 Polyolefin amide alkeneamine (C17+)  
 Polyolefin amide alkeneamine borate (C28-C250)  
 Sodium petroleum sulfonate  
 Sulfohydrocarbon (C3-C88)  
 Waxes:  
   Petroleum  
 Sulfurized fat (C14-C20)  
 Sulfurized polyolefinamide alkeneamines (C28-C250)  
 White spirit (low (15-20%) aromatic)

## 34. ESTERS

Alkane (C14-C17) sulfonic acid, sodium salt solution  
 Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture  
 Alkyl ester copolymer (C6-C18)  
 Alkyl(C7-C9) nitrates<sup>2</sup>  
 Alkyl (C8-C40) phenol sulfide  
 Alkyl (C10-C20, saturated and unsaturated) phosphite  
 Alkyl sulfonic acid ester of phenol  
 Alkylaryl phosphate mixtures (more than 40%)  
 Amyl acetate  
 Animal and Fish oils, n.o.s.  
 Animal and Fish acid oils and distillates, n.o.s.  
 Barium long chain alkaryl (C11-C50) sulfonate  
 Barium long chain alkyl(C8-C14)phenate sulfide  
 Benzene tricarboxylic acid trioctyl ester  
 Benzyl acetate  
 Butyl acetate  
 Butyl benzyl phthalate  
 n-Butyl butyrate  
 Butyl formate  
 iso-Butyl isobutyrate  
 n-Butyl propionate  
 Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture  
 Calcium long chain alkaryl sulfonate (C11-C50)  
 Calcium long chain alkyl phenate sulfide (C8-C40)  
 Calcium long chain alkyl phenates  
 Calcium long chain alkyl salicylate (C13+)  
 Calcium nitrate, Magnesium nitrate, Potassium chloride solution  
 Calcium nitrate solution  
 Cobalt naphthenate in solvent naphtha  
 Coconut oil, fatty acid  
 Copper salt of long chain alkanic acids

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Cottonseed oil, fatty acid	Magnesium long chain alkyl phenate sulfide (C8-C20)
Cyclohexyl acetate	Magnesium long chain alkyl salicylate (C11+)
Decyl acetate	3-Methoxybutyl acetate
Dialkyl(C7 - C13) phthalates	1-Methoxy-2-propyl acetate
Dibutyl hydrogen phosphonate	Methyl acetate
Dibutyl phthalate	Methyl acetoacetate
Diethylene glycol butyl ether acetate	Methyl amyl acetate
Diethylene glycol dibenzoate	Methyl butyrate
Diethylene glycol ethyl ether acetate	Methyl formate
Diethylene glycol methyl ether acetate	3-Methyl-3-methoxybutyl acetate
Diethylene glycol phthalate	Methyl salicylate
Di-(2-ethylhexyl)adipate	Metolachlor
Di-(2-ethylhexyl)phthalate	Naphthalene sulfonic acid, sodium salt solution (40% or less)
Diethyl phthalate	Nonyl acetate
Diethyl sulfate	n-Octyl acetate
Diheptyl phthalate	Octyl decyl adipate
Dihexyl phthalate	Oil, edible:
Di-n-hexyl adipate	Beechnut
Diisobutyl phthalate	Castor
Diisodecyl phthalate	Cocoa butter
Diisononyl adipate	Coconut <sup>2</sup>
Diisononyl phthalate	Cod liver
Diisooctyl phthalate	Corn
Dimethyl adipate	Cotton seed
Dimethylcyclicsiloxane hydrolyzate	Fish <sup>2</sup>
Dimethyl glutarate	Groundnut
Dimethyl hydrogen phosphite <sup>2</sup>	Hazelnut
Dimethyl naphthalene sulfonic acid, sodium salt solution <sup>2</sup>	Lard
Dimethyl phthalate	Lanolin
Dimethyl polysiloxane	Nutmeg butter
Dimethyl succinate	Olive
Dinonyl phthalate	Palm <sup>2</sup>
Diocetyl phthalate	Palm kernel
Diphenyl tolyl phosphate, less than 0.02% (ortho-isomer)	Peanut
Dipropylene glycol dibenzoate	Poppy
Dithiocarbamate ester (C7-C35)	Poppy seed
Ditridecyl adipate	Raisin seed
Ditridecyl phthalate	Rapeseed
2-Dodecenylsuccinic acid, dipotassium salt solution	Rice bran
Diundecyl phthalate	Safflower
2-Ethoxyethyl acetate	Salad
Ethyl acetate	Sesame
Ethyl acetoacetate	Soya bean
Ethyl butyrate	Sunflower
Ethylene carbonate	Sunflower seed
Ethylene glycol acetate	Tucum
Ethylene glycol butyl ether acetate	Vegetable
Ethylene glycol diacetate	Walnut
Ethylene glycol ethyl ether acetate	Oil, misc:
Ethylene glycol methyl ether acetate	Animal
Ethyl-3-ethoxypropionate	Coconut oil, fatty acid methyl ester
Ethyl hexyl phthalate	Cotton seed oil, fatty acid
Ethyl propionate	Lanolin
Ethyl propionate	Palm kernel oil, fatty acid methyl ester
Fatty acids (saturated, C14+)	Palm oil, methyl ester
Glycerol polyalkoxylate	Pilchard
Glyceryl triacetate	Perilla
Glycidyl ester of C10 trialkyl acetic acid	Soapstock
Glycidyl ester of tridecylacetic acid	Soyabean (epoxidized)
Heptyl acetate	Tall
Hexyl acetate	Tall, fatty acid <sup>2</sup>
Lauric acid	Tung
Lecithin	Olefin/Alkyl ester copolymer (molecular weight 2000+)
Magnesium long chain alkaryl sulfonate (C11-C50)	

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Oleic acid  
 Palm kernel acid oil  
 Palm kernel acid oil, methyl ester  
 Palm stearin  
 n-Pentyl propionate  
 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate  
 Polydimethylsiloxane  
 Polyferric sulfate solution  
 Polymethylsiloxane  
 Poly(20)oxyethylene sorbitan monooleate  
 Polysiloxane  
 Polyolefin aminoester salt  
 Polyolefin ester (C28-C250)  
 Polyolefin phosphorosulfide, barium derivative (C28-C250)  
 Potassium formate solution  
 Potassium oleate  
 Potassium salt of polyolefin acid  
 Propyl acetate  
 Propylene carbonate  
 Propylene glycol methyl ether acetate  
 Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide)<sup>2</sup>  
 Sodium acetate solution  
 Sodium benzoate solution  
 Sodium dimethyl naphthalene sulfonate solution<sup>2</sup>  
 Sodium long chain alkyl salicylate (C13+)  
 Sodium naphthalene sulfonate solution  
 Soyabean oil (epoxidized)  
 Stearic acid  
 Tall oil  
 Tall oil fatty acid (*Resin acids less than 20%*)<sup>2</sup>  
 Tallow<sup>2</sup>  
 Tallow fatty acid<sup>2</sup>  
 Tributyl phosphate  
 Tricresyl phosphate  
 Tridecanoic acid  
 Tridecyl acetate  
 Triethylene glycol dibenzoate  
 Triethylene glycol di-(2-ethylbutyrate)  
 Triethyl phosphate  
 Triethyl phosphite<sup>2</sup>  
 Triisooctyl trimellitate<sup>2</sup>  
 Triisopropylated phenyl phosphates  
 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate  
 2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate  
 2,2,4-Trimethyl-3-pentanol-1-isobutyrate  
 Trimethyl phosphite<sup>2</sup>  
 Trisodium nitrilotriacetate  
 Trixylyl phosphate  
 Trixylenyl phenyl phosphate  
 Vegetable acid oils and distillates, n.o.s.  
 Vegetable oils, n.o.s.  
 Waxes:  
   Carnauba  
 Zinc alkaryl dithiophosphate (C7-C16)  
 Zinc alkyl dithiophosphate (C3-C14)

## 35. VINYL HALIDES

Vinyl chloride  
 Vinylidene chloride

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## 36. HALOGENATED HYDROCARBONS

Benzyl chloride  
 Bromochloromethane  
 Carbon tetrachloride<sup>2</sup>  
 Catoxid feedstock<sup>2</sup>  
 Chlorinated paraffins (C10 - C13)  
 Chlorinated paraffins (C14 - C17)  
 Chlorobenzene  
 Chlorodifluoromethane  
 Chloroform  
 Chlorotoluene  
 Dibromomethane  
 Dibutylphenols  
 3,4-Dichloro-1-butene  
 Dichlorobenzene  
 Dichlorodifluoromethane  
 1,1-Dichloroethane  
 1,6-Dichlorohexane  
 2,2'-Dichloroisopropyl ether  
 Dichloromethane  
 Dichloropropane  
 Ethyl chloride  
 Ethylene dibromide  
 Ethylene dichloride<sup>2</sup>  
 Methyl bromide  
 Methyl chloride  
 Monochlorodifluoromethane  
 n-Propyl chloride  
 Pentachloroethane  
 Perchloroethylene  
 1,1,2,2-Tetrachloroethane  
 1,2,3-Trichlorobenzene  
 1,2,4-Trichlorobenzene  
 1,1,1-Trichloroethane<sup>2</sup>  
 1,1,2-Trichloroethane  
 Trichloroethylene<sup>2</sup>  
 1,2,3-Trichloropropane  
 1,1,2-Trichloro-1,2,2-trifluoroethane

## 37. NITRILES

Acetonitrile  
 Adiponitrile  
 Lactonitrile solution  
 Propionitrile  
 Tallow nitrile

## 38. CARBON DISULFIDE

Carbon disulfide

## 39. SULFOLANE

Sulfolane

## 40. GLYCOL ETHERS

Alkyl (C7-C11) phenol poly(4-12)ethoxylate  
 Alkyl (C9-C15) phenyl propoxylate  
 Diethylene glycol<sup>2</sup>  
 Diethylene glycol butyl ether  
 Diethylene glycol dibutyl ether  
 Diethylene glycol diethyl ether  
 Diethylene glycol ethyl ether  
 Diethylene glycol methyl ether  
 Diethylene glycol n-hexyl ether  
 Diethylene glycol phenyl ether  
 Diethylene glycol propyl ether  
 Dipropylene glycol

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Dipropylene glycol butyl ether  
 Dipropylene glycol methyl ether  
 Ethoxy triglycol  
 Ethylene glycol hexyl ether  
 Ethylene glycol methyl butyl ether  
 Ethylene glycol monoalkyl ethers  
 Ethylene glycol tert-butyl ether  
 Ethylene glycol butyl ether  
 Ethylene glycol dibutyl ether  
 Ethylene glycol ethyl ether  
 Ethylene glycol isopropyl ether  
 Ethylene glycol methyl ether  
 Ethylene glycol phenyl ether  
 Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture  
 Ethylene glycol propyl ether  
 Hexaethylene glycol  
 Methoxy triglycol  
 Nonyl phenol poly(4+)ethoxylates  
 Pentaethylene glycol methyl ether  
 Polyalkylene glycol butyl ether  
 Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures  
 Polyethylene glycols  
 Polyethylene glycol dimethyl ether  
 Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether  
 Polyethylene glycol monoalkyl ether  
 Polypropylene glycol methyl ether  
 Polypropylene glycols  
 Poly(tetramethylene ether) glycols (mw 950-1050)  
 Polytetramethylene ether glycol  
 n-Propoxypropanol  
 Propylene glycol monoalkyl ether  
 Propylene glycol ethyl ether  
 Propylene glycol methyl ether  
 Propylene glycol n-butyl ether  
 Propylene glycol phenyl ether  
 Propylene glycol propyl ether  
 Tetraethylene glycol  
 Tetraethylene glycol methyl ether  
 Triethylene glycol  
 Triethylene glycol butyl ether  
 Triethylene glycol butyl ether mixture  
 Triethylene glycol ether mixture  
 Triethylene glycol ethyl ether  
 Triethylene glycol methyl ether  
 Tripropylene glycol  
 Tripropylene glycol methyl ether

## 41. ETHERS

Alkaryl polyether (C9-C20)  
 tert-Amyl methyl ether  
 Butyl ether  
 2,2'-Dichloroethyl ether  
 Diethyl ether  
 Diglycidyl ether of Bisphenol A  
 Diglycidyl ether of Bisphenol F  
 Dimethyl furan  
 1,4-Dioxane  
 Diphenyl ether  
 Diphenyl ether, Diphenyl phenyl ether mixture  
 Ethyl tert-butyl ether<sup>2</sup>  
 Ethyl ether  
 Long chain alkaryl polyether (C11-C20)

Methyl-tert-butyl ether<sup>2</sup>  
 Methyl tert-pentyl ether  
 Propyl ether  
 Tetrahydrofuran  
 1,3, 5-Trioxane  
 Polyether (molecular weight 2000+)

## 42. NITROCOMPOUNDS

o-Chloronitrobenzene  
 Dinitrotoluene  
 Nitrobenzene  
 Nitroethane  
 Nitroethane, 1-Nitropropane mixture  
 Nitropropane  
 Nitropropane, Nitroethane mixtures  
 Nitrotoluene

## 43. MISCELLANEOUS WATER SOLUTIONS

Alkyl polyglucoside solutions  
 Aluminum sulfate solution<sup>2</sup>  
 2-Amino-2-hydroxymethyl-1,3-propanediol solution  
 Ammonium bisulfite solution<sup>2</sup>  
 Ammonium lignosulfonate solution  
 Ammonium nitrate, Urea solution (not containing Ammonia)  
 Ammonium polyphosphate solution  
 Ammonium sulfate solution  
 Ammonium thiosulfate solution  
 Sulfonated polyacrylate solutions<sup>2</sup>  
 Calcium bromide solution  
 Calcium chloride solution  
 Calcium lignosulfonate solution  
 Caramel solutions  
 Clay slurry  
 Corn syrup  
 Dextrose solution  
 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution  
 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution<sup>2</sup>  
 Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution  
 Diethylenetriamine pentaacetic acid, pentasodium salt solution  
 Dodecyl diphenyl ether disulfonate solution  
 Drilling brine (containing Calcium, Potassium, or Sodium salts)  
 Drilling brine (containing Zinc salts)  
 Drilling mud (low toxicity) (if non-flammable or non-combustible)  
 Ethylenediaminetetracetic acid, tetrasodium salt solution  
 Ethylene-Vinyl acetate copolymer emulsion  
 Ferric hydroxyethylethylenediamine triacetic acid, trisodium salt solution<sup>2</sup>  
 Fish solubles (water based fish meal extracts)  
 Fructose solution  
 Fumaric adduct of Rosin, water dispersion  
 Hexamethylenediamine adipate solution  
 N-(Hydroxyethyl)ethylene diamine triacetic acid, trisodium salt solution  
 Kaolin clay slurry  
 Latex, liquid synthetic

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Lignin liquor  
 Liquid Streptomyces solubles  
 l-Lysine solution  
 N-Methylglucamine solution  
 Naphthenic acid, sodium salt solution  
 Potassium chloride solution  
 Potassium thiosulfate solution  
 Rosin soap (disproportionated) solution  
 Sewage sludge, treated  
 Sodium alkyl sulfonate solution  
 Sodium hydrogen sulfite solution  
 Sodium lignosulfonate solution  
 Sodium polyacrylate solution<sup>2</sup>  
 Sodium salt of Ferric hydroxyethylethylenediamine triacetic acid solution  
 Sodium silicate solution<sup>2</sup>  
 Sodium sulfide solution  
 Sodium sulfite solution  
 Sodium tartrates, Sodium succinates solution  
 Sulfonated polyacrylate solutions<sup>2</sup>  
 Tall oil soap (disproportionated) solution  
 Tetrasodium salt of EDTA solution  
 Titanium dioxide slurry  
 Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution  
 Urea, Ammonium nitrate solution (not containing Ammonia)  
 Urea, Ammonium phosphate solution  
 Urea solution  
 Vegetable protein solution (hydrolysed)  
 Water

FOOTNOTES TO TABLE II

<sup>1</sup>Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO), U.S. Coast Guard, 2100 Second Street, SW., Washington, DC 20593-0001. Telephone (202) 372-1425.

<sup>2</sup>See Appendix I—Exceptions to the Chart. [CGD 88-100, 54 FR 40012, Sept. 29, 1989]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting Table II to part 150, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

APPENDIX I TO PART 150—EXCEPTIONS TO THE CHART

(a). The binary combinations listed below have been tested as prescribed in Appendix III and found not to be dangerously reactive. These combinations are exceptions to the Compatibility Chart (Figure 1) and may be stowed in adjacent tanks.

Member of reactive group	Compatible with
Acetone (18) .....	Diethylenetriamine (7)
Acetone cyanohydrin (0) .....	Acetic acid (4)

Member of reactive group	Compatible with
Acrylonitrile (15) .....	Triethanolamine (8)
1,3-Butylene glycol (20) .....	Morpholine (7)
1,4-Butylene glycol (20) .....	Ethylamine (7)
	Triethanolamine (8)
gamma-Butyrolactone (0) .....	N-Methyl-2-pyrrolidone (9)
Caustic potash, 50% or less (5).	Isobutyl alcohol (20)
	Ethyl alcohol (20)
	Ethylene glycol (20)
	Isopropyl alcohol (20)
	Methyl alcohol (20)
	iso-Octyl alcohol (20)
Caustic soda, 50% or less (5)	Butyl alcohol (20)
	tert-Butyl alcohol, Methanol mixtures
	Decyl alcohol (20)
	iso-Decyl alcohol (20)
	Diacetone alcohol (20)
	Diethylene glycol (40)
	Dodecyl alcohol (20)
	Ethyl alcohol (20)
	Ethyl alcohol (40%, whiskey) (20)
	Ethylene glycol (20)
	Ethylene glycol, Diethylene glycol mixture (20)
	Ethyl hexanol (Octyl alcohol) (20)
	Methyl alcohol (20)
	Nonyl alcohol (20)
	iso-Nonyl alcohol (20)
	Propyl alcohol (20)
	iso-Propyl alcohol (20)
	Propylene glycol (20)
	Sodium chlorate solution (0)
	iso-Tridecanol (20)
tert-Dodecanethiol (0) .....	Acrylonitrile (15)
	Diisodecyl phthalate (34)
	Methyl ethyl ketone (18)
	iso-Nonyl alcohol (20)
	Perchloroethylene (36)
	iso-Propyl alcohol (20)
	Tall oil, crude
Dodecyl and Tetradecylamine mixture (7).	Tall oil, fatty acid (34)
Ethylenediamine (7) .....	Butyl alcohol (20)
	tert-Butyl alcohol (20)
	Butylene glycol (20)
	Creosote (21)
	Diethylene glycol (40)
	Ethyl alcohol (20)
	Ethylene glycol (20)
	Ethyl hexanol (20)
	Glycerine (20)
	Isononyl alcohol (20)
	Isophorone (18)
	Methyl butyl ketone (18)
	Methyl iso-butyl ketone (18)
	Methyl ethyl ketone (18)
	Propyl alcohol (20)
	Propylene glycol (20)
Oleum (0) .....	Hexane (31)
	Dichloromethane (36)
	Perchloroethylene (36)
1,2-Propylene glycol (20) .....	Diethylenetriamine (7)
	Polyethylene polyamines (7)
	Triethylenetetramine (7)
Sodium dichromate, 70% (0)	Methyl alcohol (20)
Sodium hydrosulfide solution (5).	Methyl alcohol (20)
Sulfuric acid (2) .....	Iso-Propyl alcohol (20)
	Coconut oil (34)