

## § 30.10-69

adapted primarily to carry oil or hazardous material in bulk in the cargo spaces.

[CGD 79-116, 62 FR 25135, May 8, 1997]

### § 30.10-69 Tank vessel—TB/ALL.

The term *tank vessel* means a vessel that is constructed or adapted to carry, or that carries, oil or hazardous material in bulk as cargo or cargo residue, and that—

- (a) Is a vessel of the United States;
- (b) Operates on the navigable waters of the United States; or
- (c) Transfers oil or hazardous material in a port or place subject to the jurisdiction of the United States.

[CGD 79-116, 62 FR 25135, May 8, 1997]

### § 30.10-71 Tankerman—TB/ALL.

The following ratings are established in part 13 of this chapter. The terms for the ratings identify persons holding valid merchant mariners' documents for service in the ratings issued under that part:

- (a) Tankerman-PIC.
- (b) Tankerman-PIC (Barge).
- (c) Restricted Tankerman-PIC.
- (d) Restricted Tankerman-PIC (Barge).
- (e) Tankerman-Assistant.
- (f) Tankerman-Engineer.

[CGD 79-116, 60 FR 17155, Apr. 4, 1995]

## Subpart 30.15—Equivalents

### § 30.15-1 Conditions under which equivalents may be used—TB/ALL.

(a) Where in this subchapter it is provided that a particular fitting, material, appliance, apparatus, or equipment, or type thereof, shall be fitted or carried in a vessel, or that any particular provision shall be made or arrangement shall be adopted, the Commandant may accept in substitution therefor any other fitting, material, apparatus, or equipment, or type thereof, or any other arrangement: *Provided*, That he shall have been satisfied by suitable trials that the fitting, material, appliance, apparatus, or equipment, or type thereof, or the provision or arrangement is at least as effective as that specified in this subchapter.

(b) In any case where it is shown to the satisfaction of the Commandant

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that the use of any particular equipment, apparatus, or arrangement not specifically required by law is unreasonable or impracticable, the Commandant may permit the use of alternate equipment, apparatus, or arrangement to such an extent and upon such conditions as will insure, to his satisfaction, a degree of safety consistent with the minimum standards set forth in this subchapter.

## Subpart 30.25—Commodities Regulated

### § 30.25-1 Cargoes carried in vessels certificated under the rules of this subchapter.

The cargoes listed in Table 30.25-1 are flammable or combustible and when transported in bulk must be in vessels certificated under the rules of this subchapter. A mixture or blend of two or more cargoes appearing in Table 30.25-1 may be transported under the provisions of this subchapter. A category A, B, or C noxious liquid substance (NLS) cargo, as defined in § 153.2 of this chapter, that is listed in Table 30.25-1 and any mixture containing one or more category A, B, or C NLS cargoes listed in Table 30.25-1 may be carried in bulk under this subchapter if the vessel is not regulated under part 153 of this chapter. If the vessel is regulated under § 153.1 of this chapter, category A, B, and C NLS cargoes must be carried under part 153, or, as an alternative in the case of category C oil-like NLS, under 33 CFR part 151. Requirements for category D NLS cargoes and mixtures of non-NLS cargoes with category D NLS cargoes are in 33 CFR part 151.

TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES

Cargo name	IMO Annex II Pollution Category	
Acetone .....	III	
Acetophenone .....	@D	
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol .....	D	
Alcohols (C13+) .....	III	
Alcoholic beverages, n.o.s. .....	III	
Alcohol(C6-C17)(secondary) .....	poly(3-6)ethoxylates .....	A
Alcohol(C6-C17)(secondary) .....	poly(7-12)ethoxylates .....	B

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Alcohol(C9–C11) poly(2.5–9)ethoxylate .....	B
Alcohol(C12–C15) poly( ... )ethoxylates, see Alcohol(C12–C16) poly( ... )ethoxylates .....	.....
Alcohol(C12–C16) poly(1–6)ethoxylates .....	A
Alcohol(C12–C16) poly(7–19)ethoxylates .....	B
Alcohol(C12–C16) poly(20+)ethoxylates .....	C
Alkanes (C6–C9) .....	C
n-Alkanes (C10+) .....	III
iso- & cyclo-Alkanes (C10–C11) .....	D
iso- & cyclo-Alkanes (C12+) .....	III
Alkaryl polyether (C9–C20) .....	B
Alkenyl(C11+) amine .....	D
Alkenyl(C16–C20) succinic anhydride) .....	D
Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture .....	D
Alkyl(C9+)benzenes .....	III
Alkylbenzenesulfonic acid (4% or less) .....	#
Alkyl dithiothiadiazole (C6–C24) .....	D
Alkyl ester copolymer (C4–C20) .....	D
Alkyl(C7–C11) phenol poly(4–12)ethoxylates .....	B
Alkyl phenol sulfide (C8–C40), see Alkyl(C8– C40) phenol sulfide .....	.....
Alkyl(C8–C40) phenol sulfide .....	D
Alkyl(C9–C15) phenyl propoxylate .....	III
n-Alkyl phthalates, see individual phthalates .....	.....
Alkyl sulfonic acid ester of phenol .....	III
Aminoethylidethanolamine, Aminoethylmethanolamine solution .....	.....
Amyl acetate (all isomers) .....	C
Amyl alcohol (iso-, n-, sec-, primary) .....	D
Amyl alcohol (tert-) .....	III
Amylene, see Pentene (all isomers) .....	C
tert-Amyl methyl ether (Methyl tert-pentyl ether) Amyl methyl ketone, see Methyl amyl ketone .....	C
Animal and Fish oils, n.o.s. .... ..... Including: Cod liver oil Lanolin Neatsfoot oil Pilchard oil Sperm oil	D
Animal and Fish acid oils and distillates, n.o.s. Including: Animal acid oil Fish acid oil Lard acid oil Mixed acid oil Mixed general acid oil Mixed hard acid oil Mixed soft acid oil	D
Aryl polyolefin (C11–C50) .....	D
Asphalt .....	I
Asphalt blending stocks: Roofers flux .....	I
Straight run residue .....	I
Barium long chain (C11–C50) alkaryl sulfonate Barium long chain alkyl(C8–C14)phenate sul- fide .....	B
Behenyl alcohol .....	[A]
Benzene tricarboxylic acid trioctyl ester .....	III
Benzyl alcohol .....	III
Brake fluid base mixtures .....	C
(containing Poly(2–8)alkylene(C2–C3) glycols, Polyalkylene(C2–C10) glycol monoalkyl(C1–C4) ethers, and their bo- rate esters)	D
Butane .....	LFG

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Butene, see Butylene.	.....
Butene oligomer .....	B
Butyl acetate (all isomers) .....	C
Butyl alcohol (iso-, n-, sec-, tert-), see Butyl al- cohol (all isomers) .....	.....
Butyl alcohol (all isomers) .....	III
Butyl benzyl phthalate .....	A
Butylene .....	LFG
Butylene glycol .....	D
1,3-Butylene glycol, see Butylene glycol .....	.....
Butylene polyglycol, see Butylene glycol .....	.....
iso-Butyl formate .....	D
n-Butyl formate .....	@D
Butyl heptyl ketone .....	[C]
Butyl methyl ketone, see Methyl butyl ketone .....	.....
n-Butyl propionate .....	C
Butyl stearate .....	III
Butyl toluene .....	@A
gamma-Butyrolactone .....	D
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorusulfide mixture .....	A
Calcium alkyl salicylate, see Calcium long chain alkyl salicylate (C13+) .....	.....
Calcium long chain alkaryl sulfonate (C11– C50) .....	D
Calcium long chain alkyl phenate (C8–C40), see Calcium long chain alkyl(C5–C10) phenate or Calcium long chain alkyl(C11– C40) phenate .....	.....
Calcium long chain alkyl(C5–C10) phenate .....	C
Calcium long chain alkyl(C11–C40) phenate .....	D
Calcium long chain alkyl phenate sulfide (C8– C40) .....	D
Calcium long chain alkyl phenolic amine (C8– C40) .....	III
Calcium long chain alkyl salicylate (C13+) .....	C
Caprolactam solutions .....	D
Cetyl alcohol (hexadecanol), see Alcohols (C13+) .....	.....
Cetyl-Stearyl alcohol), see Alcohols (C13+) .....	III
dagger; Coal tar .....	A
Copper salt of long chain (C17+) alcanoic acid Cumene (isopropylbenzene), see Propylbenzene (all isomers) .....	[D]
Cyclohexane .....	C
Cyclohexanol .....	D
1,3-Cyclopentadiene dimer (molten) .....	B
p-Cymene .....	C
Decahydronaphthalene .....	D
iso-Decaldehyde .....	@C
n-Decaldehyde .....	@B
Decane, see n-Alkanes (C10+) .....	.....
Decene .....	B
Decyl acetate .....	B
Decyl alcohol (all isomers) .....	B
n-Decylbenzene, see Alkyl(C9+)benzenes .....	III
Detergent alkylate .....	D
Diacetone alcohol .....	D
Dialkyl(C10–C14) benzenes, see Alkyl(C9+)benzenes .....	III
Dialkyl(C8–C9) diphenylamines .....	D

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Dialkyl(C7–C13) phthalates <i>Including:</i> Diisodecyl phthalate Diisononyl phthalate Dinonyl phthalate Ditridecyl phthalate Diundecyl phthalate	D
Dibutyl carbinol, see Nonyl alcohol (all isomers) .....	A
ortho-Dibutyl phthalate .....	B
Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten) .....	A
Diethylbenzene .....	D
Diethylene glycol .....	
Diethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	
Diethylene glycol butyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether acetate .....	
Diethylene glycol dibutyl ether .....	D
Diethylene glycol diethyl ether .....	III
Diethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	
Diethylene glycol ethyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether acetate .....	
Diethylene glycol n-hexyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	
Diethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	
Diethylene glycol methyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether acetate .....	
Diethylene glycol phenyl ether .....	#
Diethyl phthalate .....	D
Diglycidyl ether of Bisphenol A .....	C
Dihethyl phthalate .....	B
Dihexyl phthalate .....	III
Disobutylcarbinol, see Nonyl alcohol (all isomers) .....	C
Diisobutylene .....	B
Disobutyl ketone .....	D
Disobutyl phthalate .....	B
Diisodecyl phthalate, see Dialkyl(C7–C13) phthalates .....	
Diisononyl adipate .....	D
Diisopropylbenzene, see Xylenes .....	C
Dimethyl glutarate .....	C
Dimethyl phthalate .....	C
Dimethylpolysiloxane, see Polydimethylsiloxane .....	III
2,2-Dimethylpropane-1,3-diol (molten or solution) .....	D
Dimethyl succinate .....	C

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Dinonyl phthalate, see Dialkyl(C7–C13) phthalates .....	
Diocetyl phthalate .....	III
Dipentene .....	C
Diphenyl .....	A
Diphenyl, Diphenyl ether mixture .....	A
Diphenyl ether .....	A
Diphenyl ether, Biphenyl phenyl ether mixture .....	A
Propylene glycol .....	III
Propylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	
Propylene glycol dibenzoate .....	[D]
Propylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	
Distillates: Flashed feed stocks .....	I
Straight run .....	I
Ditridecyl adipate .....	III
Ditridecyl phthalate, see Dialkyl(C7–C13) phthalates .....	
Diundecyl phthalate, see Dialkyl(C7–C13) phthalates .....	
Dodecane (all isomers), see also n-Alkanes (C10+) .....	III
Dodecanol .....	B
Dodecene (all isomers) .....	B
Dodecyl alcohol, see Dodecanol .....	
Dodecylbenzene, see Alky(C9+)benzenes .....	III
Dodecyl hydroxypropyl sulfide .....	A
Dodecyl phenol .....	A
Dodecyl xylene .....	III
Drilling mud (low toxicity) (if flammable or combustible) .....	[III]
Ethane .....	LFG
2-Ethoxyethyl acetate .....	C
Ethoxylated alkoxy alkyl amine, see Ethoxylated long chain (C16+) alkoxyalkanamine .....	
Ethoxylated long chain (C16+) alkoxyalkanamine .....	D
Ethoxy triglycol (crude) .....	D
Ethyl acetate .....	D
Ethyl acetoacetate .....	D
Ethyl alcohol .....	III
Ethyl amylo ketone .....	C
Ethylbenzene .....	B
Ethyl butanol .....	@D
Ethyl tert-butyl ether .....	C
Ethyl butyrate .....	C
Ethyl cyclohexane .....	C
Ethylene .....	LFG
Ethylene carbonate .....	III
Ethylene glycol .....	D
Ethylene glycol acetate .....	D
Ethylene glycol butyl ether acetate .....	C
Ethylene glycol diacetate .....	C
Ethylene glycol dibutyl ether .....	[D]
Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate .....	
Ethylene glycol methyl butyl ether .....	D
Ethylene glycol methyl ether acetate .....	C
Ethylene glycol phenyl ether .....	D
Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture .....	D
Ethylene-Propylene copolymer (in liquid mixtures) .....	[III]
Ethyl-3-ethoxypropionate .....	C

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
2-Ethylhexaldehyde, see Octyl aldehydes .....	.....
2-Ethylhexanoic acid, see Octanoic acid (all isomers) .....	.....
2-Ethylhexanol, see Octanol (all isomers) .....	.....
Ethylhexoic acid, see 2-Ethylhexanoic acid .....	.....
Ethyl hexyl phthalate .....	C
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, C8-C10 ester .....	D
Ethyl propionate .....	D
Ethyl toluene .....	B
Fatty acid (saturated, C13+), see Fatty acid (saturated, C14+) .....	.....
Fatty acid (saturated, C14+) .....	III
Formamide .....	D
Furfuryl alcohol .....	C
dagger; Gas oil, cracked .....	I
Gasoline blending stocks:	
Alkylates .....	I
dagger; Reformates .....	I
Gasolines:	
dagger; Automotive (containing not over 4.23 grams lead per gallon) .....	I
dagger; Aviation (containing not over 4.86 grams lead per gallon) .....	I
Casinghead (natural) .....	I
Polymer .....	I
dagger; Straight run .....	I
Glycerine .....	III
Glycerine (83%), Dioxanedimethanol (17%) mixture .....	D
Glycerol, see Glycerine .....	III
Glycerol monooleate .....	D
Glycerol polyalkoxylate .....	III
Glycerol triacetate .....	III
Glycidyl ester of tertiary carboxylic acid, see Glycidyl ester of tridecyl acetic acid .....	.....
Glycidyl ester of C10 trialkylacetic acid, see Glycidyl ester of tridecyl acetic acid .....	B
Glycidyl ester of tridecyl acetic acid .....	B
Glycidyl ester of versatic acid, see Glycidyl ester of tridecyl acetic acid .....	.....
Glycol diacetate, see Ethylene glycol diacetate .....	.....
Glycol triacetate, see Glycerol triacetate .....	.....
Glyoxal solution (40% or less) .....	D
Glyphosate solution (not containing surfactant) .....	D
Heptadecane, see n-Alkanes (C10+) .....	.....
Heptane (all isomers), see Alkanes (C6-C9) .....	C
Heptanoic acid .....	D
Heptanol (all isomers) .....	C
Heptene (all isomers) .....	C
Heptyl acetate .....	B
Herbicide (C15 -H22 -NO <sub>2</sub> -Cl), see Metolachlor .....	.....
1-Hexadecylnaphthalene, 1,4-bis(Hexadecyl)naphthalene mixture .....	III
Hexaethylene glycol, see Polyethylene glycol .....	.....
Hexamethylene glycol .....	III
Hexamethylenetetramine solutions .....	D
Hexane (all isomers), see Alkanes (C6-C9) .....	C
Hexanoic acid .....	D
Hexanol .....	D
Hexene (all isomers) .....	C
Hexyl acetate .....	B
Hexylene glycol .....	III
Hog grease, see Lard .....	C
2-Hydroxy-4-(methylthio)butanoic acid .....	.....
Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated .....	.....

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Isophorone .....	D
Jet fuels:	
dagger; JP-4 .....	I
JP-5 ( <i>kerosene, heavy</i> ) .....	I
JP-8 .....	@I
Kerosene .....	I
Lactic acid .....	D
Lard .....	III
Latex (ammonia (1% or less) inhibited) .....	D
Latex, liquid synthetic .....	III
<i>including:</i>	
Styrene-butadiene rubber .....	III
Carboxylated styrene-butadiene co-polymer .....	III
Lecithin .....	III
Long chain alkaryl polyether (C11-C20) .....	C
Long chain alkaryl sulfonic acid (C16-C60) .....	D
Long chain alkylphenate/Phenol sulfide mixture .....	III
Magnesium long chain alkaryl sulfonate (C11-C50) .....	D
Magnesium long chain alkyl phenate sulfide (C8-C20) .....	[D]
Magnesium long chain alkyl salicylate (C11+) .....	C
<i>Magnesium nonyl phenol sulfide</i> , see Magnesium long chain alkyl phenate sulfide (C8-C20) .....	.....
<i>Magnesium sulfonate</i> , see Magnesium long chain alkaryl sulfonate (C11-C50) .....	.....
2-Mercaptobenzothiazol ( <i>in liquid mixtures</i> ) .....	#
Methane .....	LFG
3-Methoxy-1-butanol .....	III
3-Methoxybutyl acetate .....	D
1-Methoxy-2-propyl acetate .....	#
<i>Methoxy triglycol</i> ( <i>triethylene glycol methyl ether</i> ), see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether .....	.....
Methyl acetate .....	III
Methyl acetoacetate .....	D
Methyl alcohol .....	D
Methyl amyl acetate .....	C
Methyl amyl alcohol .....	C
Methyl amyl ketone .....	D
<i>Methyl butanol</i> , see the amyl alcohols .....	.....
Methyl butenol .....	D
Methyl tert-butyl ether .....	D
Methyl butyl ketone .....	D
Methyl butyrate .....	C
Methyl ethyl ketone .....	III
N-Methylglucamine solution (70% or less) .....	III
Methyl heptyl ketone .....	B
<i>Methyl isobutyl carbinol</i> , see Methyl amyl alcohol .....	.....
Methyl isobutyl ketone .....	D
3-Methyl-3-methoxybutanol .....	III
3-Methyl-3-methoxybutyl acetate .....	III
Methyl naphthalene .....	A
<i>Methyl pentene</i> , see Hexene (all isomers) .....	.....
Methyl tert-pentyl ether ( <i>IMO cargo name</i> ) tert-Amyl methyl ether .....	.....
2-Methyl-1,3-propanediol .....	III
Methyl propyl ketone .....	D
N-Methyl-2-pyrrolidone .....	D
Metolachlor .....	B
Mineral spirits .....	I
Myrcene .....	D
Naphtha:	
dagger; Aromatic ( <i>having less than 10% Benzene</i> ) .....	@I

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Heavy .....	@I
Paraffinic .....	@I
dagger; Petroleum .....	I
dagger; Solvent .....	I
Stoddard Solvent .....	@I
dagger; Varnish makers' and painters' (75%) .....	@I
Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution .....	D
Naphthenic acid .....	A
Nonane (all isomers), see Alkanes (C6–C9) .....	C
Nonanoic acid (all isomers) .....	D
Nonanoic, Tridecanoic acid mixture .....	@D
Nonene (all isomers) .....	B
Nonyl acetate .....	C
Nonyl alcohol (all isomers) .....	C
Nonyl methacrylate monomer .....	D
Nonyl phenol .....	A
Nonyl phenol poly(4+ethoxylates) .....	B
Nonyl phenol sulfide (90% or less), see Alkyl phenol sulfide (C8–C40) .....	
Noxious liquid, N.F., (1) n.o.s. ("trade name" contains "principle components") ST 1, Cat A ( <i>if combustible</i> ) .....	A
Noxious liquid, F., (2) n.o.s. ("trade name" contains "principle components") ST 1, Cat A .....	A
Noxious liquid, N.F., (3) n.o.s. ("trade name" contains "principle components") ST 2, Cat A ( <i>if combustible</i> ) .....	A
Noxious liquid, F., (4) n.o.s. ("trade name" contains "principle components") ST 2, Cat A .....	A
Noxious liquid, N.F., (5) n.o.s. ("trade name" contains "principle components") ST 2, Cat B ( <i>if combustible</i> ) .....	B
Noxious liquid, N.F., (6) n.o.s. ("trade name" contains "principle components") ST 2, Cat B, mp. equal to or greater than 15 deg. C ( <i>if combustible</i> ) .....	B
Noxious liquid, F., (7) n.o.s. ("trade name" contains "principle components") ST 2, Cat B .....	B
Noxious liquid, F., (8) n.o.s. ("trade name" contains "principle components") ST 2, Cat B, mp. equal to or greater than 15 deg. C ....	B
Noxious liquid, N.F., (9) n.o.s. ("trade name" contains "principle components") ST 3, Cat A ( <i>if combustible</i> ) .....	A
Noxious liquid, F., (10) n.o.s. ("trade name" contains "principle components") ST 3, Cat A .....	A
Noxious liquid, N.F., (11) n.o.s. ("trade name" contains "principle components") ST 3, Cat B ( <i>if combustible</i> ) .....	B
Noxious liquid, N.F., (12) n.o.s. ("trade name" contains "principle components") ST 3, Cat B, mp. equal to or greater than 15 deg. C ( <i>if combustible</i> ) .....	B
Noxious liquid, F., (13) n.o.s. ("trade name" contains "principle components") ST 3, Cat B .....	B
Noxious liquid, F., (14) n.o.s. ("trade name" contains "principle components") ST 3, Cat B, mp. equal to or greater than 15 deg. C ....	B

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Noxious liquid, N.F., (15) n.o.s. ("trade name" contains "principle components") ST 3, Cat C ( <i>if combustible</i> ) .....	C
Noxious liquid, F., (16) n.o.s. ("trade name" contains "principle components") ST 3, Cat C .....	C
Noxious liquid, n.o.s. (17) ("trade name," contains "principal components"), Category D ( <i>if flammable or combustible</i> ) .....	D
Non-noxious liquid, n.o.s. (18) ("trade name," contains "principal components"), Appendix III ( <i>if flammable or combustible</i> ) .....	III
Octadecene, see the olefin or alpha-olefin entries .....	
Octadecenoamide solution ( <i>oleamide</i> ) .....	[D]
Octane (all isomers), see Alkanes (C6–C9) ....	C
Octanoic acid (all isomers) .....	D
Octanol (all isomers) .....	C
Octene (all isomers) .....	B
Octyl acetate .....	C
Octyl alcohol ( <i>iso-</i> , <i>n</i> -, see Octanol (all isomers)) .....	
Octyl aldehydes .....	B
Octyl decyl adipate .....	III
Octyl phthalate ( <i>Di-(2-ethylhexyl)phthalate</i> ), see DiOctyl phthalates .....	
Oil, edible:	
Beechnut .....	D
Castor .....	D
Cocoa butter .....	D
Coconut .....	D
Cod liver .....	D
Corn .....	D
Cottonseed .....	D
Fish, <i>n.o.s.</i> .....	D
Groundnut .....	D
Hazelnut .....	D
Lard .....	
Lard .....	D
Maize, see Corn oil .....	D
Nutmeg butter .....	D
Olive .....	D
Palm .....	D
Palm kernel .....	D
Peanut .....	D
Poppy .....	D
Raisin seed .....	D
Rapeseed .....	D
Rice bran .....	D
Safflower .....	D
Salad .....	D
Sesame .....	D
Soya bean .....	D
Sunflower, see Sunflower seed .....	D
Sunflower seed .....	D
Tucum .....	D
Vegetable, <i>n.o.s.</i> .....	D
Walnut .....	D
Oil, fuel:	
No. 1 ( <i>kerosene</i> ) .....	I
No. 1-D .....	I
No. 2 .....	I
No. 2-D .....	I
No. 4 .....	I
No. 5 .....	I
No. 6 .....	I
Oil, misc:	
Aliphatic .....	@I

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Animal, <i>n.o.s.</i> .....	D
Aromatic .....	I
Clarified .....	I
Coal .....	#
Coconut oil, fatty acid .....	C
Coconut oil, fatty acid methyl ester .....	D
<i>Cottonseed, fatty acid, see Cottonseed oil, fatty acid .....</i>	
dagger; Crude .....	I
Diesel .....	I
Gas, high pour .....	@I
Gas, low pour .....	@I
Gas, low sulfur .....	@I
Heartcut distillate .....	I
Lanolin .....	D
Linseed .....	D
Lubricating .....	I
Mineral .....	I
Mineral seal .....	@I
Motor .....	I
Neatsfoot .....	D
Oiticica .....	D
Palm oil, fatty acid methyl ester .....	D
Penetrating .....	I
Perilla .....	D
Pilchard .....	D
Pine .....	C
Residual .....	I
Road .....	I
Rosin .....	B
Seal .....	I
Soapstock .....	#
Soya bean (epoxidized) .....	[D]
Sperm .....	D
Spindle .....	I
Tall .....	B
Tall, fatty acid .....	C
Transformer .....	I
Tung .....	D
Turbine .....	I
Whale .....	D
alpha-Olefins (C6–C18) .....	B
alpha-Olefins (C13–C18) .....	III
Olefin mixtures (C5–C7) .....	C
Olefin mixtures (C5–C15) .....	B
Olefins (C13+, all isomers) .....	III
Olefin/Aalkyl ester copolymer (molecular weight 2000+) .....	D
Olein acid .....	D
Oleyl alcohol ( <i>octadecenol</i> ), <i>see</i> Alcohols (C13+) .....	
Palm kernel acid oil, methyl ester .....	[D]
Palm stearin .....	D
<i>n</i> -Paraffins (C10–C20), <i>see n</i> -Alkanes (C10+) .....	
Pentaadecanol, <i>see</i> Alcohols (C13+) .....	
Pentaethylene glycol, <i>see</i> Polyethylene glycols .....	
Pentaethylenehexamine .....	D
Pentane (all isomers) .....	C
Pentanoic acid .....	D
Pentene (all isomers) .....	C
n-Pentyl propionate .....	C
Petrolatum .....	III
1-Phenyl-1-xylyl ethane .....	C
Phosphate esters, alkyl(C12–C14) amine .....	B
Phosphosulfurized bicyclic terpene .....	#
<i>Pinene, see the alpha- or beta- isomers .....</i>	
alpha-Pinene .....	A

TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
beta-Pinene .....	B
Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures .....	@D
<i>Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....</i>	
Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	D
<i>Including:</i>	
Diethylene glycol butyl ether .....	
Diethylene glycol ethyl ether .....	
Diethylene glycol <i>n</i> -hexyl ether .....	
Diethylene glycol methyl ether .....	
Diethylene glycol <i>n</i> -propyl ether .....	
Dipropylene glycol butyl ether .....	
Dipropylene glycol methyl ether .....	
Polypropylene glycol methyl ether .....	
Triethylene glycol butyl ether .....	
Triethylene glycol ethyl ether .....	
Triethylene glycol methyl ether .....	
Tripropylene glycol methyl ether .....	
Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether acetate .....	D
<i>Including:</i>	
Diethylene glycol butyl ether acetate .....	
Diethylene glycol ethyl ether acetate .....	
Diethylene glycol methyl ether acetate .....	
Polyalkylene oxide polyol .....	C
<i>Polycarboxylic ester (C9+), see Ditridecyl adipate.</i> .....	
Polyalkyl(C10–C20) methacrylate .....	D
Polbutadiene, hydroxy terminated .....	[III]
Polybutene .....	III
Polybutenyl succinimide .....	D
Polydimethylsiloxane .....	#
Polyether (molecular weight 2000+) .....	D
Polyethylene glycol .....	III
Polyethylene glycol dimethyl ether .....	III
<i>Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....</i>	
Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide) .....	III
Polyglycerol .....	III
Polyisobutylene anhydride adduct .....	III
Poly(4+isobutylene) .....	III
Polymerized esters .....	#
Polyolefin (molecular weight 300+) .....	III
Polyolefin amide alkeneamine (C17+) .....	D
Polyolefin amide alkeneamine (C28+) .....	D
Polyolefin amide alkeneamine borate (C28–C250) .....	D
Polyolefin amide alkeneamine/Molybdenum oxy sulfide mixture .....	C
Polyolefin amide alkeneamine polyol .....	D
Polyolefin anhydride .....	D
Polyolefin ester (C28–C250) .....	D
Polyolefin phenolic amine (C28–C250) .....	D
Polyolefin phosphorosulfide, barium derivative (C28–C250) .....	C
Poly(20)oxyethylene sorbitan monooleate .....	III
Poly(5+propylene) .....	III
Polypropylene glycol .....	D
<i>Polypropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....</i>	
Polysiloxane .....	III
Potassium oleate .....	C
Potassium salt of polyolefin acid .....	III

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Propane .....	LFG
<i>n</i> -Propoxypropanol ( <i>propylene glycol propyl ether</i> ), see Propylene glycol monoalkyl ether	.....
iso-Propyl acetate .....	III
n-Propyl acetate .....	D
iso-Propyl alcohol .....	III
n-Propyl alcohol .....	III
<i>iso-Propylbenzene (cumene)</i> , see Propylbenzene (all isomers) .....	.....
<i>n-Propylbenzene</i> , see Propylbenzene (all isomers) .....	.....
Propylbenzene (all isomers) .....	A
iso-Propylcyclohexane .....	C
Propylene .....	LFG
Propylene-butylene copolymer .....	III
Propylene carbonate .....	III
Propylene dimer .....	C
Propylene glycol .....	III
<i>Propylene glycol n-butyl ether</i> , see Propylene glycol monoalkyl ether .....	.....
<i>Propylene glycol ethyl ether</i> , see Propylene glycol monoalkyl ether .....	.....
<i>Propylene glycol methyl ether</i> , see Propylene glycol monoalkyl ether .....	.....
Propylene glycol methyl ether acetate .....	D
Propylene glycol monoalkyl ether .....	D
Including:	
<i>n</i> -Propoxypropanol	
<i>Propylene glycol n-butyl ether</i>	
<i>Propylene glycol ethyl ether</i>	
<i>Propylene glycol methyl ether</i>	
<i>Propylene glycol propyl ether</i>	
Propylene glycol phenyl ether .....	D
<i>Propylene glycol propyl ether</i> , see Propylene glycol monoalkyl ether .....	.....
Propylene polymer ( <i>in liquid mixtures</i> ) .....	#
Propylene tetramer .....	B
Propylene trimer .....	B
Pseudocumene, see Trimethylbenzenes .....	.....
Rum, see Alcoholic beverages, n.o.s. ....	.....
Sodium acetate, Glycol, Water mixture (containing 1% or less, Sodium hydroxide) (if flammable or combustible) .....	#
Sodium acetate solution .....	D
Sodium benzoate solution .....	D
Sodium long chain alkyl salicylate (C13+) .....	[C]
Soyabean oil (epoxidized) .....	[D]
<i>Stearic acid</i> , see Fatty acid (saturated, C14+) .....	.....
Stearyl alcohol ( <i>octadecanol</i> ) .....	III
Sulfohydrocarbon (C3–C88) .....	D
Sulfohydrocarbon, long chain (C18+) alkylamine .....	B
Sulfolan .....	D
Sulfurized fat (C14–C20) .....	D
Sulfurized polyolefinamide alkene(C28–C250)amine .....	D
Tallow .....	D
<i>Tallow alcohol</i> , see Alcohols (C13+) .....	.....
Tallow fatty acid .....	D
Tallow alkyl nitrile .....	#
<i>Tetradecanol</i> , see Alcohols (C13+) .....	.....
<i>Tetradecene</i> , see the olefin or alpha-olefin entries .....	.....
<i>Tetradecylbenzene</i> , see Alkyl(C9+)benzenes .....	III
Tetraethylene glycol .....	III
Tetrahydronaphthalene .....	C
<i>Tetrapropylbenzene</i> , see Alkyl(C9+)benzenes .....	.....

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
Toluene .....	C
<i>Triarylpophosphate</i> , see Triisopropylated phenyl phosphates .....	.....
Trityl phosphate .....	B
Tricresyl phosphate (less than 1% of the ortho isomer) .....	A
<i>Tridecane</i> , see n-Alkanes (C10+) .....	.....
<i>Tridecanonic acid</i> .....	B
<i>Tridecanol</i> , see Alcohols (C13+) .....	.....
<i>Tridecene</i> , see Olefins (C13+) .....	.....
Tridecyl acetate .....	III
Tridecylbenzene, see Alkyl(C9+)benzenes .....	III
Triethylbenzene .....	A
Triethylene glycol .....	III
<i>Triethylene glycol butyl ether</i> , see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	.....
<i>Triethylene glycol butyl ether mixture</i> .....	#
<i>Triethylene glycol di-(2-ethylbutyrate)</i> .....	[C]
<i>Triethylene glycol ether mixture</i> .....	#
<i>Triethylene glycol ethyl ether</i> , see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	.....
<i>Triethylene glycol methyl ether</i> , see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	.....
Triethyl phosphate .....	D
Triisooctyl trimellitate .....	#
Triisopropanolamine .....	III
Triisopropylated phenyl phosphates .....	A
Trimethylbenzene (all isomers) .....	A
Trimethylol propane polyethoxylate .....	D
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate .....	III
2,2,4-Trimethyl-3-pentanol-1-isobutyrate .....	#
<i>Tripropylene</i> , see Propylene trimer .....	.....
Tripropylene glycol .....	III
<i>Tripropylene glycol methyl ether</i> , see Poly(2-8)alkylene glycol monoalkyl(C1–C6) ether .....	.....
Trixylenyl phosphate .....	A
Trixylyl phosphate, see Trixylenyl phosphate .....	A
Turpentine .....	B
dagger; <i>Turpentine substitute</i> , see White spirit (low (15–20%) aromatic) .....	.....
<i>Undecanol</i> , see 1- Undecyl alcohol .....	.....
Undecene .....	B
1- Undecyl alcohol .....	B
Undecylbenzene, see Alkyl(C9+)benzenes .....	III
Vegetable oils, n.o.s. (see also Oil, edible) .....	D

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TABLE 30.25-1.—LIST OF FLAMMABLE AND COMBUSTIBLE BULK LIQUID CARGOES—Continued

Cargo name	IMO Annex II Pollution Category
<i>Including:</i> Beechnut oil Castor oil Cocoa butter Coconut oil Corn oil Cottonseed oil Groundnut oil Hazelnut oil Linseed oil Nutmeg butter Oiticica oil Olive oil Palm kernel oil Palm oil Peel oil (oranges and lemons) Perilla oil Poppy oil Raisin seed oil Rapeseed oil Rice bran oil Safflower oil Salad oil Sesame oil Soya bean oil Sunflower seed oil Tucum oil Tung oil Walnut oil	
Vegetable acid oils and distillates, n.o.s. ....	D
<i>Including:</i> Corn acid oil Cottonseed acid oil Dark mixed acid oil Groundnut acid oil Mixed acid oil Mixed general acid oil Mixed hard acid oil Mixed soft acid oil Rapeseed acid oil Safflower acid oil Soya acid oil Sunflower seed acid oil	
Waxes: Candelilla ..... Carnauba ..... Paraffin .....	D @D III
dagger; White spirit, see White spirit (low (15–20%) aromatic) .....	
dagger; White spirit (low (15–20%) aromatic) .... Wine, see Alcoholic beverages, n.o.s. .... Xylenes ( <i>ortho</i> -, <i>meta</i> -, <i>para</i> -) .... Zinc alkaryl dithiophosphate (C7–C16) .... Zinc alkenyl carboxamide .... Zinc alkyl dithiophosphate (C3–C14) ....	B C D B

NOTE: See table 2 of part 153 for additional cargoes permitted to be carried by tank barge.

Explanation of Symbols: As used in this table the following stands for:

A, B, C, D—NLS Category of Annex II of MARPOL 73/78.  
I—Considered an “oil” under Annex I of MARPOL 73/78.  
III—Appendix III of Annex II (non-NLS cargoes) of MARPOL 73/78.

LFG—Liquefied flammable gas.

#—No determination of NLS status. For shipping on an oceangoing vessel, see 46 CFR 153.900(c).

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[ ]—A NLS category in brackets indicates that the product is provisionally categorized and that further data are necessary to complete the evaluation of its pollution hazards. Until the hazard evaluation is completed, the pollution category assigned is used.

②—The NLS category has been assigned by the U.S. Coast Guard, in absence of one assigned by the IMO. The category is based upon a GESAMP Hazard Profile or by analogy to a closely related product having an NLS assigned.

dagger—The provisions contained in 46 CFR part 197, subpart C, may apply to this cargo.

Abbreviations for Noxious liquid Cargoes:

N.F.—non-flammable (flash point greater than 60 degrees C (140 degrees F) cc).

F.—flammable (flash point less than or equal to 60 degrees C (140 degrees F) cc).

n.o.s.—not otherwise specified.

ST—Ship type.

Cat—Pollution category.

Words in italic are not part of the cargo name but may be used in addition to the cargo name.

When one entry references another entry by use of the word “see”, and both names are in roman type, either name may be used as the cargo name (e.g., Diethyl ether, see Ethyl ether). However, the referenced entry is preferred.

[CGD 00-7079, 65 FR 67157, Nov. 8, 2000]

## § 30.25-3 Benzene.

The provisions contained in 46 CFR part 197, subpart C, apply to liquid cargoes containing 0.5% or more benzene by volume.

[CGD 88-040, 56 FR 65006, Dec. 13, 1991]

## Subpart 30.30—Interim Procedures for Evaluating Vessel Personnel Licensing and Certification Programs of Foreign Countries

SOURCE: CGD 79-081a, 45 FR 23427, Apr. 7, 1980, unless otherwise noted.

### § 30.30-1 Scope and purpose.

(a) This subpart contains procedures for evaluating vessel personnel licensing and certification programs of foreign countries. Evaluations are done for countries which license or certificate personnel serving on tank vessels that enter or operate in U.S. navigable waters and ports.

(b) The purpose of each evaluation is to determine whether a foreign licensing and certification program has standards that are comparable to or more stringent than U.S. standards.

(c) A determination that licensing and certification standards of a foreign country are not comparable to or more stringent than U.S. standards will subject tank vessels manned with officers