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46 CFR Parts 30, 150 and 153
2012 Liquid Chemical Categorization Updates; Interim Rule

DEPARTMENT OF HOMELAND SECURITY

Coast Guard

46 CFR Parts 30, 150, and 153

[Docket No. USCG–2013–0423]

RIN 1625–AB94

2012 Liquid Chemical Categorization Updates

AGENCY: Coast Guard, DHS.

ACTION: Interim rule.

SUMMARY: The Coast Guard is updating and revising regulatory tables that list liquid hazardous materials, liquefied gases, and compressed gases that have been approved for maritime transportation in bulk, and that indicate how each substance's pollution potential has been categorized. The interim rule provides new information about approved substances and their categorizations, but would not make any changes in which substances are approved or how each substance is categorized. Updated information is of value to shippers and to the owners and operators of U.S.-flag tank and bulk cargo vessels in any waters and most foreign-flag tank and oceangoing bulk cargo vessels in U.S. waters. This interim rule promotes the Coast Guard's maritime safety and stewardship missions.

DATES: This interim rule is effective September 16, 2013. Comments and related material must either be submitted to our online docket via *http://www.regulations.gov* on or before November 14, 2013 or reach the Docket Management Facility by that date.

ADDRESSES: You may submit comments identified by docket number USCG–2013–0423 using any one of the following methods:

(1) *Federal eRulemaking Portal*: *http://www.regulations.gov.*

(2) *Fax:* 202–493–2251.

(3) *Mail:* Docket Management Facility (M–30), U.S. Department of Transportation, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE., Washington, DC 20590–0001.

(4) *Hand delivery:* Same as mail address above, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The telephone number is 202–366–9329.

To avoid duplication, please use only one of these four methods. See the ''Public Participation and Request for Comments'' portion of the **SUPPLEMENTARY INFORMATION** section below for instructions on submitting comments.

FOR FURTHER INFORMATION CONTACT: If you have questions on this rule, email or call LCDR Marie Castillo-Bletso, Coast Guard; email: *Marie.M.Castillo-Bletso@uscg.mil,* telephone: 202–372–1023. If you have questions on viewing or submitting material to the docket, call Barbara Hairston, Program Manager, Docket Operations, telephone 202–366–9826.

SUPPLEMENTARY INFORMATION:

Table of Contents for Preamble

I. Public Participation and Request for Comments

We encourage you to participate in this rulemaking by submitting comments and related materials. All comments received will be posted, without change, to *http://www.regulations.gov* and will include any personal information you have provided.

A. Submitting Comments

If you submit a comment, please include the docket number for this rulemaking (USCG–2013–0423), indicate the specific section of this document to which each comment applies, and provide a reason for each suggestion or recommendation. You may submit your comments and material online, or by fax, mail or hand delivery, but please use only one of these means. We recommend that you include your name and a mailing address, an email address, or a phone number in the body of your document so that we can contact you if we have questions regarding your submission.

To submit your comment online, go to *http://www.regulations.gov* and insert ''USCG–2013–0423'' in the ''Search'' box. Click on ''Submit a Comment'' in the ''Actions'' column. If you submit your comments by mail or hand delivery, submit them in an unbound format, no larger than 8½ by 11 inches, suitable for copying and electronic filing. If you submit comments by mail and would like to know that they reached the Facility, please enclose a stamped, self-addressed postcard or envelope. We will consider all comments and material received during the comment period and may change this interim rule based on your comments.

B. Viewing Comments and Documents

To view comments, as well as documents mentioned in this preamble as being available in the docket, go to *http://www.regulations.gov* and insert ''USCG–2013–0423'' in the ''Search'' box. Click ''Search.'' Click the ''Open Docket Folder'' in the ''Actions'' column. If you do not have access to the internet, you may view the docket online by visiting the Docket Management Facility in Room W12–140 on the ground floor of the Department of Transportation West Building, 1200 New Jersey Avenue SE., Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. We have an agreement with the Department of Transportation to use the Docket Management Facility.

C. Privacy Act

Anyone can search the electronic form of comments received into any of our dockets by the name of the individual submitting the comment (or signing the comment, if submitted on behalf of an association, business, labor union, etc.). You may review a Privacy Act notice regarding our public dockets in the January 17, 2008, issue of the **Federal Register** (73 FR 3316).

D. Public Meeting

We do not now plan to hold a public meeting, but you may submit a request for one to the docket using one of the methods specified under **ADDRESSES**. In your request, explain explain why you believe a public meeting would be beneficial. If we determine that one would aid this rulemaking, we will hold one at a time and place announced by a later notice in the **Federal Register.**

II. Abbreviations

APA Administrative Procedure Act
DHS Department of Homeland Security
E.O. Executive Order
FR Federal Register
IBC Code International Code for the Construction and Equipment of Ships CarryingDangerous Chemicals in Bulk
IMO International Maritime Organization

MARPOL International Convention for the Prevention of Pollution from Ships, 1973
MEPC Marine Environment Protection Committee
NLS Noxious liquid substance
OMB Office of Management and Budget
SOLAS International Convention for the Safety of Life at Sea
U.S.C. United States Code

III. Basis and Purpose

The basis of this interim rule is 46 U.S.C. 3703, which requires the Secretary of the department in which the Coast Guard is operating to prescribe regulations relating to the operation of vessels that carry liquid bulk dangerous cargoes, and to the types and grades of cargo those vessels carry. Additional regulatory authority is provided by 33 U.S.C. 1903 (regulations to implement the International Convention for the Prevention of Pollution from Ships, 1973 (MARPOL)), 46 U.S.C. 2103 (merchant marine regulatory authority), and 46 U.S.C. 3306 (regulations for the safety of individuals and property on inspected vessels). The Secretary's authority under these statutes is delegated to the Coast Guard in Department of Homeland Security Delegation No. 0170.1 (77) and (92).

The purpose of the interim rule is to update and revise regulatory tables that list liquid hazardous materials, liquefied gases, and compressed gases that have been approved for maritime transportation in bulk, and that indicate how each substance's pollution potential has been categorized.

The Administrative Procedure Act, 5 U.S.C. 551 *et seq.,* generally requires agencies to give prior public notice before issuing new rules and to give interested persons an opportunity to participate in the rulemaking by submitting comments or additional information. We are issuing this interim rule without prior notice and comment under the exceptions to the general requirement contained in 5 U.S.C. 553(b)(B) and (d). Section 553(b)(B) provides an exception from prior notice and comment when an agency finds, for good cause, that notice and comment are ''impracticable, unnecessary, or contrary to the public interest.'' We find that it is unnecessary and contrary to the public interest to give prior notice and comment for this interim rule, because this interim rule simply updates and revises tables that list the names and pollution-potential categorizations of liquid chemical substances that have already been categorized and approved for maritime transportation in bulk. It makes no new decisions about whether any specific chemical substance should be approved for bulk maritime transportation, about how any specific substance should be categorized, or about carriage requirements that should apply to any specific substance. It simply updates and revises regulatory tables to list liquid hazardous materials, liquefied gases, and compressed gases that currently are approved for maritime transportation in bulk, and indicates how each substance's pollution potential currently is categorized under international agreements to which the United States is a party. Neither existing approvals nor existing categorizations can be changed as a result of taking public comment on this rulemaking.

Additionally, delaying the regulatory update to allow for notice and comment is contrary to the public interest because it delays the public's ready access to categorization information without which it is impossible to know which regulations apply to any specific substance.

IV. Background

Coast Guard regulations in 46 CFR subchapter O (parts 150 through 155) list hundreds of hazardous liquids, liquefied gases, and compressed gases that the Coast Guard has approved for bulk transportation by vessels. Subchapter O specifies requirements for safely transporting these substances.

If a substance is not already listed in subchapter O, a vessel owner or operator must request the Coast Guard's written permission to transport the substance. 46 CFR 150.140, 151.01–15, 153.900. If the owner or operator plans to ship the substance internationally, an additional procedure is necessary to satisfy the requirements of international treaties to which the United States is a party. Specifically, a ''tripartite agreement'' must be concluded between the owner or operator, the Coast Guard, and the flag administration of the country to which the substance will be shipped. The tripartite agreement categorizes the substance's potential for pollution and sets its minimum safe carriage requirements in accordance with the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code), which contains international standards for the safe maritime bulk transportation of dangerous and noxious liquid chemicals in accordance with MARPOL and the International Convention for the Safety of Life at Sea (SOLAS). A copy of the tripartite agreement is forwarded to the International Maritime Organization's (IMO's) Marine Environment Protection Committee (MEPC).

While this substance-specific approval procedure facilitates the commercial development and use of new substances and ensures the safety of a new substance's maritime transportation, public awareness of the new substance and its applicable safety requirements is maximized only by listing it in subchapter O, and in similar regulatory lists maintained by other countries. The IMO facilitates this public awareness. After each tripartite agreement is forwarded to the MEPC, the MEPC reviews the information the agreement contains, and either modifies or validates the information. Each December, the MEPC releases a circular listing the new substances for which it has completed this review. The circular lists the countries that have approved international maritime transportation of the substance, and provides information about the substance's pollution categorization and minimum transportation safety requirements. Thus, if the United States has approved a substance for bulk maritime transportation, eventually it will be listed in the MEPC circular.

Periodically, the IBC Code is revised, and substances listed in MEPC annual circulars since the last IBC Code revision are incorporated into the IBC Code. The IBC Code was last comprehensively revised in 2007, at which time the pollution categories for approved substances were changed from an A–B–C–D categorization scheme (with A representing the most severe pollution hazards and B, C, and D representing decreasing levels of risk) to an X–Y–Z–OS scheme (with X, Y, and Z representing decreasing hazard levels and OS representing ''other substances'' that present no significant pollution hazards). In March 2012, an Annex to the 2007 IBC Code appeared, listing additional substances with their pollution categorizations. The 2007 IBC Code and March 2012 Annex were most recently updated by the December 2012 MEPC Circular.

V. Discussion of the Interim Rule

This interim rule is up to date as of the December 2012 MEPC Circular. It updates and revises subchapter O tables listing liquid chemical substances that the Coast Guard has approved for bulk maritime transportation, which have not been updated in several years. As a result, vessel owners and operators have lacked current and comprehensive lists of approved substances. Moreover, the current subchapter O tables use the outmoded A–B–C–D pollution categories and do not convey information about the X, Y, Z, and OS categories in international use since the IBC Code's 2007 revision. By updating the lists and revising their pollution

categorizations to match the 2007 IBC Code, this interim rule provides the regulated community with more current information, thereby achieving a modest reduction in regulatory burden. Our plan is to keep the table updated through annual rulemakings in the future.

The subchapter O tables amended by this interim rule are Table 30.25–1 (List of Flammable and Combustible Bulk Liquid Cargoes), Table I to Part 150 (Alphabetical List of Cargoes), Table II to Part 150 (Grouping of Cargoes), Appendix I to Part 150 (Exceptions to the Chart), and Table 2 to Part 153 (Cargoes Not Regulated Under Subchapters D or O of this Chapter When Carried in Bulk on Non-oceangoing Barges). We are amending each of these tables to update the lists through December 2012 and to revise pollution categorizations. Also, we are revising the 46 CFR 30.25–1 regulatory text that serves as the introduction to Table 30.25–1 to explain the pollution categorizations included in that table.

VI. Regulatory Analyses

A. Regulatory Planning and Review

Executive Orders (E.O.s) 12866 (''Regulatory Planning and Review'') and 13563 (''Improving Regulation and Regulatory Review'') direct agencies to assess the costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits (including potential economic, environmental, public health and safety effects, distributive impacts, and equity). Executive Order 13563 emphasizes the importance of quantifying both costs and benefits, of reducing costs, of harmonizing rules, and of promoting flexibility. This interim rule has not been designated a ''significant regulatory action'' under section 3(f) of E.O. 12866. Accordingly, the interim rule has not been reviewed by the Office of Management and Budget. A draft regulatory assessment is included herein.

Affected Population

This interim rule updates tables that list the names and pollution-potential categorizations of liquid chemical substances that have already been categorized and approved for maritime transportation in bulk, either permanently or on a provisional basis. This interim rule makes no new decisions about whether any specific chemical substance should be approved for bulk maritime transportation, about how any specific substance should be categorized, or about carriage requirements that should apply to any specific substance. It simply provides updated information about the substances that are currently approved and how they are currently categorized. As such, this interim rule does not directly affect any particular vessel population. However, this interim rule indirectly applies to the following vessel populations carrying these cargoes from 46 CFR parts 30, 150, 151, 153, and 154 as described:

- Part 30: U.S-flag tank vessels, as further specified in 46 CFR 30.01–5.
- Part 150: U.S.-flag and foreign-flag tank (when in U.S. waters; except foreign-flag tank vessels in innocent passage through U.S. waters) vessels, with exceptions described in 46 U.S.C. 3702.
- Part 151: Non-self-propelled bulk-cargo carrying oceangoing/non-oceangoing U.S.-flag and oceangoing foreign-flag (when in U.S. waters) vessels, as further specified in 46 CFR 151.01–1.
- Part 153: Self-propelled bulk cargo carrying oceangoing/non-oceangoing U.S.-flag and oceangoing foreign-flag (when in U.S. waters) vessels, as further specified in 46 CFR 153.1.
- Part 154: U.S.-flag and foreign-flag (when in U.S. waters) vessels with bulk liquefied gas cargo/cargo residue or vapor, as further specified in 46 CFR 154.5.

Costs

This interim rule updates tables that list the names and pollution-potential categorizations of liquid chemical substances that have already been categorized and approved by the United States and the IMO for maritime transportation in bulk, either permanently or on a provisional basis. Since this interim rule simply updates tables and a table preface to reflect decisions already made under international law about which liquid chemical substances are approved for bulk maritime transportation, and about how those substances should be categorized with respect to their pollution potential, it does not change established shipping requirements and there are no private sector costs expected from this interim rule. This interim rule incorporates chemical substances and categorizations listed by the IMO through its December 2012 MEPC Circular.

Benefits

The primary benefit of this interim rule is to conform regulatory language to practices currently allowed by the Coast Guard through either individual letters of approval or the IBC Code as discussed above, which we expect will result in the benefit of improved service to the public through improved clarity and transparency.

B. Small Entities

Under the Regulatory Flexibility Act (5 U.S.C. 601–612) (RFA), we have considered whether this interim rule would have a significant economic impact on a substantial number of small entities. The term ''small entities'' comprises small businesses, not-for-profit organizations that are independently owned and operated and are not dominant in their fields, and governmental jurisdictions with populations of less than 50,000. We recognize that an Initial Regulatory Flexibility Analysis is not required when an interim rule is promglated without prior notice and comment. Although no impacts on small entities are anticipated, Coast Guard included a threshold analysis of the Interim Rule requirements in order to follow the spirit of the Regulatory Flexibility Act. As this rule does not impose any additional direct costs on small entities as defined by the RFA, this rule is not expected to have a significant economic impact on a substancial number of small entities.

C. Assistance for Small Entities

Under section 213(a) of the Small Business Regulatory Enforcement Fairness Act of 1996 (Pub. L. 104–121), we want to assist small entities in understanding this rule so that they can better evaluate its effects on them and participate in the rulemaking. If this interim rule would affect your small business, organization, or governmental jurisdiction and you have questions concerning its provisions or options for compliance, please consult LCDR Marie Castillo-Bletso, at *Marie.M.Castillo-Bletso@uscg.mil.* The Coast Guard will not retaliate against small entities that question or complain about this interim rule or any policy or action of the Coast Guard.

D. Collection of Information

This interim rule would call for no new collection of information under the Paperwork Reduction Act of 1995 (44 U.S.C. 3501–3520). This interim rule simply updates and revises tables that list substances that have been approved and categorized for bulk maritime transportation, which does not involve information collection.

E. Federalism

A rule has implications for federalism under E.O. 13132 (''Federalism'') if it has a substantial direct effect on the

States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government. We have analyzed this interim rule under that E.O. and have determined that it is consistent with the fundamental federalism principles and preemption requirements described in the E.O. Our analysis follows.

It is well-settled that States may not regulate in categories reserved for regulation by the Coast Guard. It is also well-settled, now, that all of the categories covered in 46 U.S.C. 3306, 3703, 7101, and 8101 (design, construction, alteration, repair, maintenance, operation, equipping, personnel qualification, and manning of vessels), as well as the reporting of casualties and any other category in which Congress intended the Coast Guard to be the sole source of a vessel's obligations, are within fields foreclosed from regulation by the States. (See the decision of the Supreme Court in the consolidated cases of *United States* v. *Locke* and *Intertanko* v. *Locke,* 529 U.S. 89, 120 S.Ct. 1135 (March 6, 2000).) This interim rule amends existing regulations for tank vessels and the maritime transportation of certain bulk dangerous cargoes, which, under the principles discussed in *Locke,* fall within the categories enumerated in 46 U.S.C. 3306 and 3703 and are within fields in which the states are foreclosed from regulating. Therefore, because the States may not regulate within these categories, this rule is consistent with the fundamental federalism principles and preemption requirements described in E.O. 13132.

F. Unfunded Mandates Reform Act

The Unfunded Mandates Reform Act of 1995 (2 U.S.C. 1531–1538) requires Federal agencies to assess the effects of their discretionary regulatory actions. In particular, the Act addresses actions that may result in the expenditure by a State, local, or tribal government, in the aggregate, or by the private sector of $100,000,000 (adjusted for inflation) or more in any one year. Though this rule will not result in such an expenditure, we do discuss the effects of this rule elsewhere in this preamble.

G. Taking of Private Property

This interim rule will not cause a taking of private property or otherwise have taking implications under E.O. 12630 (''Governmental Actions and Interference with Constitutionally Protected Property Rights'').

H. Civil Justice Reform

This interim rule meets applicable standards in sections 3(a) and 3(b)(2) of E.O. 12988 (''Civil Justice Reform'') to minimize litigation, eliminate ambiguity, and reduce burden.

I. Protection of Children

We have analyzed this interim rule under E.O. 13045 (''Protection of Children from Environmental Health Risks and Safety Risks''). This interim rule is not an economically significant rule and does not create an environmental risk to health or risk to safety that may disproportionately affect children.

J. Indian Tribal Governments

This interim rule does not have tribal implications under E.O. 13175 (''Consultation and Coordination with Indian Tribal Governments'') because it does not have a substantial direct effect on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes.

K. Energy Effects

We have analyzed this interim rule under E.O. 13211 (''Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use''). We have determined that it is not a ''significant energy action'' under that E.O. because it is not a ''significant regulatory action'' under E.O. 12866 and is not likely to have a significant adverse effect on the supply, distribution, or use of energy. The Administrator of the Office of Information and Regulatory Affairs has not designated it as a significant energy action. Therefore, it does not require a Statement of Energy Effects under E.O. 13211.

L. Technical Standards

The National Technology Transfer and Advancement Act (15 U.S.C. 272 note) directs agencies to use voluntary consensus standards in their regulatory activities unless the agency provides Congress, through the OMB, with an explanation of why using these standards would be inconsistent with applicable law or otherwise impractical. Voluntary consensus standards are technical standards (e.g., specifications of materials, performance, design, or operation; test methods; sampling procedures; and related management systems practices) that are developed or adopted by voluntary consensus standards bodies. This interim rule does not use technical standards. Therefore, we did not consider the use of voluntary consensus standards.

M. Environment

We have analyzed this interim rule under Department of Homeland Security Management Directive 023–01 and Commandant Instruction M16475.lD, which guide the Coast Guard in complying with the National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321–4370f), and have made a preliminary determination that this action is one of a category of actions that do not individually or cumulatively have a significant effect on the human environment. A preliminary environmental analysis checklist supporting this determination is available in the docket where indicated under the ''Public Participation and Request for Comments'' section of this preamble. This interim rule involves administrative updates of existing chemical transport regulations and updates provisions relating to the chemical properties of liquid chemical substances approved for maritime transportation in bulk. The update incorporates changes in how approved substances are categorized by their chemical properties. This interim rule promotes the Coast Guard's maritime safety and stewardship missions. It is therefore included in the Coast Guard's Commandant Instruction (COMDTINST) M16475.1D, Figure 2–1, which includes categorical exclusions (CEs) under categories (34)(a), ''regulations which are editorial or procedural, such as those updating addresses or establishing application procedures,'' and 34 (d), ''regulations concerning manning, documentation, admeasurement, inspection, and equipping of vessels,'' as well as in the ''Appendix to National Environmental Policy Act: Coast Guard Procedures for Categorical Exclusions, Notice of Final Agency Policy'' (see 67 FR 48243) under paragraph 6 (a), ''regulations concerning vessel operation safety standards . . . equipment approval, and/or equipment carriage requirements . . . and visual distress signals.'' We seek any comments or information that may lead to the discovery of a significant environmental impact from this interim rule.

List of Subjects

46 CFR Part 30

Cargo vessels, Foreign relations, Hazardous materials transportation, Penalties, Reporting and recordkeeping requirements, Seamen.

46 CFR Part 150

Hazardous materials transportation, Marine safety, Occupational safety and health, Reporting and recordkeeping requirements.

46 CFR Part 151

Cargo vessels, Hazardous materials transportation, Marine safety, Reporting and recordkeeping requirements, Water pollution control.

46 CFR Part 153

Administrative practice and procedure, Cargo vessels, Hazardous materials transportation, Marine safety, Reporting and recordkeeping requirements, Water pollution control.

For the reasons set out in the preamble, the Coast Guard amends 46 CFR parts 30, 150, 151, and 153 as follows:

PART 30—GENERAL PROVISIONS

■ 1. The authority citation for part 30 continues to read as follows:

Authority: 46 U.S.C. 2103, 3306, 3703; Pub. L. 103–206, 107 Stat. 2439; 49 U.S.C. 5103, 5106; Department of Homeland Security Delegation No. 0170.1; Section 30.01–2 also issued under the authority of 44 U.S.C. 3507; Section 30.01–05 also issued under the authority of Sec. 4109, Pub. L. 101–380, 104 Stat. 515.

■ 2. Revise § 30.25–1 to read as follows:

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

(a) Table 30.25–1 lists flammable or combustible cargoes that, when transported in bulk, must be in vessels certificated under this subchapter D.

(b) A mixture or blend of two or more cargoes appearing in Table 30.25–1 may be transported under this subchapter D.

(c) A mixture or blend of one or more cargoes appearing in Table 30.25–1 and one or more cargoes appearing in Table 2, 46 CFR part 153, may be carried under this subchapter D if the mixture is flammable or combustible.

(d) Any mixture containing one or more substance categorized by the International Maritime Organization (IMO) and listed in Table 30.25–1 as a category X, Y, or Z noxious liquid substance (NLS) may be carried in bulk—

(1) Under this subchapter D if the vessel is not regulated under 46 CFR part 153;

(2) Under part 153 if the vessel is regulated under that part; or alternatively under 33 CFR part 151 in the case of a category Y oil-like NLS; or

(3) Under 33 CFR part 151 if the cargo is a category Z NLS or a mixture of non-NLS and category Z NLS cargoes.

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Acetochlor *	X
Acetone	Z
Acetophenone	#
Acrylonitrile-Styrene copolymer dispersion in polyether polyol	Y
Alcohol(C6-C17)(secondary) poly(3-6)ethoxylates	Y
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylates	Y
Alcohol(C9-C11) poly(2.5-9)ethoxylate	Y
Alcohol(C12-C15) poly(. . .)ethoxylates, see Alcohol(C12-C16) poly(. . .) ethoxylates	Y
Alcohol(C12-C16) poly(1-6)ethoxylates	Y
Alcohol(C12-C16) poly(7-19)ethoxylates	Y
Alcohol(C12-C16) poly(20+)ethoxylates	Y
Alcohols (C13+)	Y
Alcoholic beverages, n.o.s.	Z
Aliphatic oil	I
Alkanes (C6-C9)	X
Iso- and cyclo-alkanes (C10-C11)	Y
Iso- and cyclo-alkanes (C12+)	Y
n-Alkanes (C10+)	Y
Alkaryl polyethers (C9-C20)	Y
Alkenyl(C11+) amide *	X
Alkenyl(C8+) amine, Alkenyl(C12+) acid ester mixture	#
Alkyl acrylate-Vinylpyridine copolymer in toluene *	Y
Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17) *	Z
Alkyl(C3-C4) benzenes*	Y
Alkyl(C5-C8) benzenes*	X
Alkyl(C8-C9) phenylamine in aromatic solvents*	Y
Alkyl(C9+) benzenes	Y
Alkyl(C11-C17) benzene sulfonic acid *	Y
Alkylbenzene sulfonic acid (4% or less)	#
Alkyl dithiocarbamate (C19-C35) *	Y
Alkyl dithiothiadiazole (C6-C24)	Y
Alkyl ester copolymer (C4-C20)	Y
Alkyl(C7-C11)phenol poly(4-12) ethoxylate	Y
Alkyl phenol sulfide (C8-C40), see Alkyl(C8-C40) phenol sulfide	
Alkyl(C8-C40) phenol sulfide	Z
Alkyl(C8-C9) phenylamine in aromatic solvents *	Y
Alkyl(C9-C15) phenyl propoxylate	Z
Alkyl(C8-C10) polyglucoside solution (65% or less) *	Y
Alkyl(C12-C14) polyglucoside solution (55% or less) *	Y
Alkyl(C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less) *	Y
Alkyl(C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less)	Y

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Alkyl(C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)*	Y
Alkyl(C10-C20, saturated and unsaturated) phosphate *	Y
n-Alkyl phthalates, see individual phthalates	
Alkyl sulfonic acid ester of phenol	Y
Aminoethyldiethanolamine/Aminoethylethanolamine solution	Z
2-Amino-2-methyl-1-propanol *	Z
Amyl acetate (all isomers)	Y
Amyl alcohol (iso-, n-, sec-, primary, tert-)	Z
tert-Amyl ethyl ether *	Z
tert-Amyl methyl ether	X
Amyl methyl ketone, see Methyl amyl ketone	
Amylene, see Pentene (all isomers)	
Animal acid oil	#
Animal and Fish acid oils and distillates, n.o.s.	#
Animal and Fish oils, n.o.s.	#
Animal oil	#
Aromatic oil	I
Aryl polyolefins (C11-C50)	Y
Asphalt	I
Asphalt blending stocks:	
Roofers flux	I
Straight run residue	I
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95-120°C) *	X
Barium long-chain alkyl (C8-C14) phenate sulfide	#
Beechnut oil	#
Behenyl alcohol, see Alcohols (C13+)	
Benzene tricarboxylic acid, trioctyl ester	Y
Benzyl acetate*	Y
Benzyl alcohol	Y
Brake fluid base mix: Poly(2-8)alkylene(C2-C3) glycols/Polyalkylene(C2-C10) glycols monoalkyl(C1-C4) ethers and their borate esters	Z
Butene, see Butylene	
Butene oligomer	X
Butyl acetate (all isomers)	Y
Butyl alcohol (iso-, n-, sec-, tert-), see Butyl alcohol (all isomers)	
Butyl alcohol (all isomers)	Z
Butylbenzene (all isomers) *	X
Butyl benzyl phthalate	X
Butyl butyrate (all isomers) *	Y
Butylene glycol	Z
1,3-Butylene glycol, see Butylene glycol	
iso-Butyl formate	#
n-Butyl formate	#
Butyl heptyl ketone	#
Butyl methyl ketone, see Methyl butyl ketone	
n-Butyl propionate	Y
Butyl stearate	#
Butyl toluene	#
gamma-Butyrolactone	Y
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture	#
Calcium alkyl salicylate, see Calcium long-chain alkyl salicylate (C13+)	
Calcium long-chain alkaryl sulfonate (C11-C50)	#
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	Y
Calcium long-chain alkyl(C11-C40) phenate	Y
Calcium long-chain alkyl phenolic amine (C8-C40)	#
Calcium long-chain alkyl salicylate (C13+)	Y
Candelilla wax, see Waxes	
Caprolactam solutions, see epsilon-Caprolactam (molten or aqueous solutions)	
epsilon-Caprolactam (molten or aqueous solutions) *	Z
Carnauba wax, see Waxes	
Cetyl alcohol, see Alcohols (C13+)	
Cetyl- stearyl alcohol, see Alcohols (C13+)	
Chlorinated paraffins (C10-C13) *	X
1-(4-Chlorophenyl)-4,4-dimethyl-pentan-3-one *	Y
Citric acid (70% or less) *	Z
Clarified oil	I

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Coal oil	#
Coconut oil fatty acid methyl ester*	Y
Cod liver oil	#
Copper salt of long-chain (C17+) alkanoic acid	Y
Corn acid oil	#
Cotton seed acid oil	#
Cotton seed, fatty acid, see Cotton seed oil, fatty acid	.....
Cotton seed oil, fatty acid	#
Crude Isononylaldehyde	#
Crude Isopropanol	@Z
† Crude oil	I
Cumene , see Propylbenzene (all isomers)	.....
Cycloheptane*	X
Cyclohexane	Y
Cyclohexanol	Y
Cyclohexyl acetate*	Y
1,3-Cyclopentadiene dimer (molten)	Y*
Cyclopentane*	Y
Cyclopentene*	Y
p-Cymene	Y
Dark mixed acid oil	#
Decahydronaphthalene	Y
iso-Decaldehyde	#
n-Decaldehyde	#
Decane, see n-Alkanes (C10+)	.....
Decanoic acid*	X
Decene	X
Decyl acetate	#
Decyl alcohol (all isomers)	Y
n-Decylbenzene, see Alkyl(C9+)benzenes	.....
Detergent alkylate, see Alkyl(C9+)benzenes	.....
Diacetone alcohol	Z
Dialkyl(C10-C14) benzenes, see Alkyl(C9+) benzenes	.....
Dialkyl(C8-C9) diphenylamines	Z
Dialkyl(C7-C13) phthalates	X
Including:	
Diisodecyl phthalate.	
Diisononyl phthalate.	
Dinonyl phthalate.	
Ditridecyl phthalate.	
Diundecyl phthalate.	
Dibutyl carbinol, see Nonyl alcohol (all isomers)	.....
Dibutyl hydrogen phosphonate*	Y
2,6-Di-ter*t*-butylphenol*	X
Dibutyl phthalate*	X
ortho-Dibutyl phthalate, see Dibutyl phthalate	.....
Dibutyl terephthalate*	Y
Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)	.....
Diesel oil	I
Diethylbenzene	Y
Diethylene glycol	Z
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 diethyl ether	Z
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	#
Diethylene glycol phthalate	Y
Diethylene glycol propyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	.....
Di-(2-ethylhexyl)adipate	Y
Di-(2-ethylhexyl)phthalate, see Dioctyl phthalate	.....
Diethyl phthalate	Y
Diglycidyl ether of bisphenol A	X
Diglycidyl ether of bisphenol F*	Y
Diheptyl phthalate	Y

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Di-n-hexyl adipate *	X
Dihexyl phthalate	Y
Diisobutyl carbinol, see Nonyl alcohol (all isomers)	
Diisobutylene	Y
Diisobutyl ketone	Y
Diisobutyl phthalate	X
Diisodecyl phthalate, see Dialkyl(C7-C13) phthalates	
Diisononyl adipate	Y
Diisononyl phthalate, see Dialkyl(C7-C13) phthalates	
Diisooctyl phthalate	Y
Diisopropylbenzene (*all isomers*)	X
Diisopropylnaphthalene	Y
Dimethyl adipate	X
Dimethylbenzene, see Xylenes	
Dimethyl glutarate	Y
Dimethyl octanoic acid *	Y
Dimethyl phthalate	Y
Dimethylpolysiloxane	Y
2,2-Dimethylpropane-1,3-diol (molten or solution)	Z
Dimethyl succinate	Y
Dinonyl phthalate	Y
Dioctyl phthalate	X
Dipentene	Y
Diphenyl	X
Diphenylamine (molten) *	Y
Diphenylamines, alkylated *	Y
Diphenyl/Diphenyl ether mixtures	X
Diphenyl ether	X
Diphenyl ether/Diphenyl phenyl ether mixture	X
Diphenylol propane-epichlorohydrin resins *	X
Dipropylene glycol	Z
Dipropylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Dipropylene glycol dibenzoate	#
Dipropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Dithiocarbamate ester (C7-C35)*	X
Distillates:	
Flashed feed stocks	I
Straight run	I
Diundecyl phthalate	Y
Dodecane (all isomers)	Y
Dodecanol, see Dodecyl alcohol	
Dodecene (all isomers)	X
Dodecyl alcohol	Y
Dodecyl benzene, see Alkyl (C9+) benzenes	
Dodecyl hydroxypropyl sulfide	X
Dodecyl phenol	X
Dodecyl xylene	Y
Drilling brines (containing zinc salts) (if flammable or combustible) *	X
Drilling brines, including: Calcium bromide solution, calcium chloride solution and sodium chloride solution (if flammable or combustible) *	Z
Drilling mud (low toxicity) (if flammable or combustible)	#
ETBE, see Ethyl tert-butyl ether	
2-Ethoxyethyl acetate	Y
Ethoxylated alkyloxy alkyl amine, see Ethoxylated long-chain (C16+) alkyloxyalkylamine	
Ethoxy triglycol (crude)	#
Ethyl acetate	Z
Ethyl acetoacetate	Z
Ethyl alcohol	Z
Ethyl amyl ketone	Y
Ethylbenzene	Y
Ethyl butanol	#
Ethyl tert-butyl ether	Y
Ethyl butyrate	Y
Ethyl cyclohexane	Y
S-Ethyl dipropylthiocarbamate *	Y
Ethylene carbonate	Z
Ethylene glycol	Y
Ethylene glycol acetate	Y

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Ethylene glycol butyl ether acetate	Y
Ethylene glycol diacetate	Y
Ethylene glycol dibutyl ether	#
Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate	
Ethylene glycol methyl butyl ether	#
Ethylene glycol methyl ether acetate	Y
Ethylene glycol phenyl ether	Z
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	Z
Ethyl-3-ethoxypropionate	Y
2-Ethylhexaldehyde, see Octyl aldehydes	
2-Ethylhexanoic acid	Y
Ethylhexoic acid, see 2-Ethylhexanoic acid	
2-Ethylhexanol, see Octanol (all isomers)	
Ethyl hexyl phthalate	#
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, (C8-C10) ester	Y
Ethyl propionate	Y
Ethyl toluene	Y
Fatty acid (saturated, C13+)	Y
Fatty acids, (C16+) *	Y
Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester *	Y
Fish acid oil	#
Formamide	Y
Furfuryl alcohol	Y
† Gas oil, cracked	I
Gas oil, high pour	I
Gas oil, low pour	I
Gas oil, low sulfur	I
Gasoline blending stocks:	
Alkylates	I
† Reformates	I
Gasolines:	
† Automotive (*containing not over 4.23 grams lead per gallon*)	I
† Aviation (*containing not over 4.86 grams lead per gallon*)	I
Casinghead (*natural*)	I
Polymer	I
† Straight run	I
Gasoline (Natural gas condensate)	I
Glycerine	Z
Glycerine (83%), Dioxanedimethanol (17%) mixture	#
Glycerol, see Glycerine	
Glycerol ethoxylated *	OS
Glycerol monooleate	Y
Glycerol polyalkoxylate	#
Glycerol, propoxylated and ethoxylated *	Z
Glycerol/sucrose blend propoxylated and ethoxylated *	Z
Glyceryl triacetate	Z
Glycidyl ester of tridecyl acetic acid, see Glycidyl ester of C10 trialkylacetic acid	
Glycidyl ester of versatic acid, see Glycidyl ester of C10 trialkylacetic acid	
Glycidyl ester of C10 trialkylacetic acid	Y
Glycol diacetate, see Ethylene glycol diacetate	
Glycol triacetate, see Glyceryl triacetate	
Glyoxal solution (40% or less)	Y
Glyphosate solution (not containing surfactant)	Y
Groundnut acid oil	#
Groundnut oil *	Y
Hazelnut oil	#
Heartcut distillate	I
Heptadecane, see n-Alkanes (C10+)	
Heptane (all isomers)	X
Heptanoic acid, see n-Heptanoic acid	
n-Heptanoic acid *	Z
Heptanol (all isomers)	Y
Heptene (all isomers)	Y
Heptyl acetate	Y
Herbicide (C15H22NO2Cl), see N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methylchloroacetanilide	
Hexadecanol, see Alcohol (C 13+)	
1-Hexadecylnaphthalene/1,4-Bis(hexadecyl)naphthalene mixture	Y
Hexaethylene glycol, see Polyethylene glycol	

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Hexamethylene glycol	Z
Hexamethylenetetramine solutions	Z
Hexane (all isomers)	Y
1,6-Hexanediol, distillation overheads *	Y
Hexanoic acid	Y
Hexanol	Y
Hexene (all isomers)	Y
Hexyl acetate	Y
Hexylene glycol	Z
Hydrogenated starch hydrolysate *	OS
2-Hydroxy-4-(methylthio)butanoic acid	Z
Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated	.....
Illipe oil *	Y
Isoamyl alcohol *	Z
Isobutyl alcohol *	Z
Isobutyl formate *	Z
Isobutyl methacrylate *	Z
Isopropyl acetate *	Z
Isopropyl alcohol*	Z
Isopropylcyclohexane*	Y
Jatropha oil*	Y
Jet fuels:	
† JP-4	I
JP-5 (*kerosene, heavy*)	I
JP-8	I
Kerosene	I
Lactic acid	Z
Lanolin oil	#
Lard acid oil	#
Latex: Carboxylated styrene-Butadiene copolymer; Styrene-Butadiene rubber*	Z
Lauric acid*	X
Lecithin	OS
Long-chain alkaryl polyether (C11-C20)	Y
Long-chain alkaryl sulfonic acid (C16-C60)	Y
Long-chain alkylphenate/Phenol sulfide mixture	Y
Lubricating oil	I
L-Lysine solution (60% or less) *	Z
Magnesium long-chain alkaryl sulfonate (C11-C50)	Y
Magnesium long-chain alkyl phenate sulfide (C8-C20)	#
Magnesium long-chain alkyl salicylate (C11+)	Y
Magnesium nonyl phenol sulfide, see Magnesium long-chain alkyl phenate sulfide (C8-C20)	.....
Mango kernel oil *	Y
2-Mercaptobenzothiazol (*in liquid mixtures*)	#
3-Methoxy-1-butanol	Z
3-Methoxybutyl acetate	Y
1-Methoxy-2-propyl acetate	#
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methylchloroacetanilide *	X
Methoxy triglycol, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	.....
Methyl acetate	Z
Methyl acetoacetate	Z
Methyl alcohol	Y
Methylamyl acetate	Y
Methylamyl alcohol	Z
Methyl amyl ketone	Z
Methyl butanol, see the amyl alcohols	.....
Methylbutenol	Y
Methyl tert-butyl ether	Z
Methyl butyl ketone	Y
Methylbutynol *	Z
Methyl butyrate	Y
Methylcyclohexane *	Y
Methylcyclopentadiene dimmer *	Y
Methyl 3-(3,5 di-tert-butyl-4-hydroxyphenyl)propionate crude melt *	[Y]
Methyl ethyl ketone	Z
N-Methylglucamine solution (70% or less)	Z
Methyl heptyl ketone	#
Methyl isobutyl carbinol, see Methyl amyl alcohol	.....
Methyl isobutyl ketone	Z

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
3-Methyl-3-methoxybutanol	Z
3-Methyl-3-methoxybutyl acetate	#
Methyl pentene, see Hexene (all isomers)	.....
Methyl tert-pentyl ether, see tert-Amyl methyl ether	.....
2-Methyl-1,3-propanediol	Z
Methyl propyl ketone	Z
N-Methyl-2-pyrrolidone	Y
Methyl salicylate *	Y
Metolachlor, see N-(2-Methoxy-1-methylethyl)-2-ethyl-6-methylchloroacetanilide	.....
Mineral oil	I
Mineral seal oil	I
Mineral spirits	I
Mixed acid oil	#
Mixed general acid oil	#
Mixed hard acid oil	#
Mixed soft acid oil	#
Motor oil	I
MTBE, see Methyl tert-butyl ether	.....
Myrcene	X
Naphtha:	
† Aromatic (*having less than 10% Benzene*)	I
Heavy	I
Paraffinic	I
† Petroleum	I
† Solvent	I
Stoddard Solvent	I
† Varnish makers' and painters' (75%)	I
Naphthenic acid	#
Neatsfoot oil	#
Neodecanoic acid *	Y
Nitrilotriacetic acid, trisodium salt solution *	Y
Nonane (all isomers)	X
Nonanoic acid (all isomers)	Y
Nonanoic, Tridecanoic acid mixture	#
Nonene (all isomers)	Y
Nonyl acetate	#
Nonyl alcohol (all isomers)	Y
Nonyl methacrylate monomer	Y
Nonylphenol	X
Nonylphenol poly(4+)ethoxylate	Y
Nonyl phenol sulfide (90% or less), see Alkyl (C8-C40) phenol sulfide	.....
Noxious liquid, F, (2) n.o.s. (''trade name'' contains ''principle components'') ST 1, Cat X	X
Noxious liquid, F, (4) n.o.s. (''trade name'' contains ''principle components'') ST 2, Cat X	X
Noxious liquid, F, (6) n.o.s. (''trade name'' contains ''principle components'') ST 2, Cat Y	Y
Noxious liquid, F, (8) n.o.s. (''trade name'' contains ''principle components'') ST 3, Cat Y	Y
Noxious liquid, F, (10) n.o.s. (''trade name'' contains ''principle components'') ST 3, Cat Z	Z
Noxious liquid, (11) n.o.s. (''trade name'' contains ''principle components'') Cat Z (if flammable or combustible)	Z
Non noxious liquid, (12) n.o.s. (''trade name'' contains ''principle components'') Cat OS (if flammable or combustible)	OS
Nutmeg butter oil	#
Octadecanol, see Alcohols (C13+)	.....
Octadecene, see the olefin or alpha-olefin entries	.....
Octadeceneamide solution	#
Octamethylcyclotetrasiloxane*	Y
Octane (all isomers)	X
Octanoic acid (all isomers)	Y
Octanol (all isomers)	Y
Octene (all isomers)	Y
Octyl acetate, see n-Octyl acetate	.....
n-Octyl acetate *	Y
Octyl alcohol (iso-, n-), see Octanol (all isomers)	.....
Octyl aldehydes	Y
Octyl decyl adipate	Y
Octyl phthalate, see Dioctyl phthalate	.....
Oil, edible: Poppy seed	I
Oil, fuel:	
No. 1 (*kerosene*)	I
No. 1-D	I
No. 2	I

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
No. 2-D	I
No. 4	I
No. 5	I
No. 6	I
Oiticica oil	#
alpha-Olefins (C6-C18) mixtures	X
alpha-Olefins (C13-C18) mixtures, see alpha-Olefins (C6-C18)	.....
Olefins (C13+, all isomers)	Y
Olefin-Alkyl ester copolymer (molecular weight 2000+)	Y
Olefin mixtures (C5-C7)	Y
Olefin mixtures (C5-C15)	X
Oleic acid	Y
Oleyl alcohol, see Alcohols (C13+)	.....
Orange juice (concentrated) *	OS
Palm kernel acid oil, methyl ester	#
Palm kernel olein *	Y
Palm kernel stearin *	Y
Palm mid-fraction *	Y
Palm oil fatty acid methyl ester *	Y
Palm olein *	Y
Palm stearin *	Y
Paraffin wax	Y
n-Paraffins (C10-C20), see n-Alkanes (C10+)	.....
Peanut oil, see Groundnut oil	.....
Peel oil (oranges and lemons)	#
Penetrating oil	I
Pentadecanol, see Alcohols (C13+)	.....
Pentaethylene glycol, see Polyethylene glycols	.....
Pentane (all isomers)	Y
Pentanoic acid	Y
Pentene (all isomers)	Y
n-Pentyl propionate	Y
Perilla oil	#
Petrolatum	Y
1-Phenyl-1-xylyl ethane	Y
Phosphate esters, alkyl (C12-C14) amine	Y
Phosphosulfurized bicyclic terpene	#
Pilchard oil	#
Pinene, see the alpha- or beta- isomers	.....
alpha-Pinene	X
beta-Pinene	X
Pine oil *	X
Polyalkyl(C18-C22) acrylate in xylene *	Y
Polyalkylene glycols, polyalkylene glycol monoalkyl ethers mixtures	#
Polyalkylalkenaminesuccinimide, molybdenum oxysulfide *	Y
Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	.....
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	Z
Including:	
Diethylene glycol butyl ether.	
Diethylene glycol ethyl ether.	
Diethylene glycol n-hexyl ether.	
Diethylene glycol methyl ether.	
Diethylene glycol n-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	Y
Including:	
Diethylene glycol butyl ether acetate.	
Diethylene glycol ethyl ether acetate.	
Diethylene glycol methyl ether acetate.	
Polyalkylene oxide polyol	#
Polyalkyl(C10-C20) methacrylate	Y
Polyalkyl(C10-C18) methacrylate/ethylene-propylene copolymer mixture *	Y

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Polybutadiene, hydroxy terminated	#
Polybutene	Y
Polybutenyl succinimide	Y
Poly(2+)cyclic aromatics*	X
Polydimethylsiloxane, see Dimethylpolysiloxane	.....
Polyether (molecular weight 1350+)	Y
Polyether polyols	#
Polyethylene glycol	Z
Polyethylene glycol dimethyl ether	Z
Poly(ethylene glycol) methylbutenyl ether (MW≤1000)*	Z
Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	.....
Polyglycerine, sodium salt solution (containing less than 3% sodium hydroxide)	Z
Polyglycerol	#
Polyisobutenamine in aliphatic (C10-C14) solvent*	Y
Polyisobutenyl anhydride adduct	Z
Poly(4+)isobutylene	Y
Polymerized esters	#
Polyolefin amide alkeneamine (C17+)	Y
Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkeneamine (C17+)	.....
Polyolefin amide alkeneamine borate (C28-C250)	Y
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture	#
Polyolefin amide alkeneamine polyol	Y
Polyolefinamine (C28-C250)*	Y
Polyolefinamine in alkyl (C2-C4) benzenes*	Y
Polyolefinamine in aromatic solvent*	Y
Polyolefin aminoester salts (molecular weight 2000+)*	Y
Polyolefin anhydride	Y
Polyolefin ester (C28-C250)	Y
Polyolefin phenolic amine (C28-C250)	Y
Polyolefin phosphorosulfide, barium derivative (C28-C250)	Y
Poly(20)oxyethylene sorbitan monooleate	Y
Poly(5+)propylene	Y
Polypropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	.....
Polysiloxane	Y
Poppy oil	#
Potassium oleate	Y
Potassium salt of polyolefin acid	#
n-Propoxypropanol, see Propylene glycol monoalkyl ether	.....
n-Propyl acetate	Y
n-Propyl alcohol	Y
iso-Propylbenzene, see Propylbenzene (all isomers)	.....
n-Propylbenzene, see Propylbenzene (all isomers)	.....
Propylbenzene (all isomers)	Y
Propylene-Butylene copolymer	#
Propylene carbonate	Z
Propylene dimer	#
Propylene glycol	Z
Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether	.....
Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether	.....
Propylene glycol methyl ether, see Propylene glycol monoalkyl ether	.....
Propylene glycol methyl ether acetate	Z
Propylene glycol monoalkyl ether	Z
Including:	
n-Propoxypropanol.	
Propylene glycol n-butyl ether.	
Propylene glycol ethyl ether.	
Propylene glycol methyl ether.	
Propylene glycol propyl ether.	
Propylene glycol phenyl ether	Z
Propylene glycol propyl ether, see Propylene glycol monoalkyl ether	.....
Propylene polymer (*in liquid mixtures*)	#
Propylene tetramer	X
Propylene trimer	Y
Pseudocumene, see Trimethylbenzenes	.....
Raisin seed oil	#
Rapeseed acid oil	#
Rape seed oil fatty acid methyl esters*	Y
Residual oil	I

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Road oil	I
Rosin *	Y
Rosin oil	#
Rum, see Alcoholic beverages, n.o.s	
Safflower acid oil	#
Salad oil	#
Seal oil	I
Sesame oil	#
Soapstock oil	#
Sodium acetate, Glycol, Water mixture (containing 1% or less, Sodium hydroxide) (if flammable or combustible)	#
Sodium benzoate	Z
Sodium long-chain alkyl salicylate (C13+)	#
Sodium thiocyanate solution (56% or less) *	Y
Soya acid oil	#
Soyabean fatty acid methyl ester	#
Soyabean oil (epoxidized)	#
Spindle oil	I
Stearic acid, see Fatty acid (saturated, C13+)	
Stearyl alcohol, see Alcohols (C13+)	
Sulfohydrocarbon (C3-C88)	Y
Sulfohydrocarbon, long-chain (C18+) alkylamine	#
Sulfolane	Y
Sulfurized fat (C14-C20)	Z
Sulfurized polyolefinamide alkene(C28-C250) amine	Z
Sunflower oil, see Sunflower seed acid oil	
Sunflower seed acid oil	#
Tall oil, distilled *	Y
Tall oil, fatty acid	#
Tallow	Y
Tallow alcohol, see Alcohols (C13+)	
Tallow alkyl nitrile	#
Tallow fatty acid	Y
TAME, see tert-Amyl methyl ether	
Tetradecanol, see Alcohols (C13+)	
Tetradecene, see alpha-Olefins (C6-C18) mixtures, Olefin mixtures (C5-C15), or Olefins (C13+, all isomers)	
Tetradecylbenzene, see Alkyl(C9+)benzenes	
Tetraethylene glycol	Z
Tetraethyl silicate monomer/oligomer (20% in ethanol) *	Z
Tetrahydronaphthalene	Y
Tetramethylbenzene (all isomers) *	X
Tetrapropylbenzene, see Alkyl(C9+)benzenes	
Toluene	Y
Transformer oil	I
Triarylphosphate, see Triisopropylated phenyl phosphates	
Tributyl phosphate	Y
Tridecane	Y
Tridecanoic acid	Y
Tridecanol, see Alcohols (C13+)	
Tridecene, see Olefins (C13+, all isomers)	
Tridecyl acetate	Y
Tridecylbenzene, see Alkyl(C9+)benzenes	
Triethylbenzene	X
Triethylene glycol	Z
Triethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Triethylene glycol butyl ether mixture	#
Triethylene glycol di-(2-ethylbutyrate)	#
Triethylene glycol ether mixture	#
Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Triethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Triethyl phosphate	Z
Triisooctyl trimellitate	#
Triisopropanolamine	Z
Triisopropylated phenyl phosphates	X
Trimethylbenzene (all isomers)	X
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	Y
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate *	Y
2,2,4-Trimethyl-3-pentanol-1-isobutyrate	#
Tripropylene, see Propylene trimer	

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

[See NOTES at the end of the Table for explanation of symbols and terms used. See Table 2, 46 CFR part 153, for additional cargoes that may be carried by tank barge.]

Cargo name	IMO Annex II pollution category
Tripropylene glycol	Z
Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	
Trixylenyl phosphate, see Trixylyl phosphate	
Trixylyl phosphate	X
Tucum oil	#
Turbine oil	I
Turpentine	X
† *Turpentine substitute, see* White spirit (low (15–20%) aromatic)	
Undecanoic acid	Y
1-Undecanol, see Undecyl alcohol	
Undecene, see 1-Undecene	
1-Undecene	X
1-Undecyl alcohol, see Undecyl alcohol	
Undecyl alcohol	X
Undecylbenzene, see Alkyl(C9+)benzenes	
Vegetable oils, n.o.s	#
Vegetable protein solution (hydrolyzed) (if flammable or combustible) *	OS
Walnut oil	#
Waxes	Y
† *White spirit, see* White spirit (low (15–20%) aromatic)	
† White spirit, low (15–20%) aromatic	Y
Wine, see Alcoholic beverages, n.o.s	
Xylenes	Y
Xylenes/Ethylbenzene (10% or more) mixture *	Y
Zinc alkaryl dithiophosphate (C7-C16)	Y
Zinc alkenyl carboxamide	Y
Zinc alkyl dithiophosphate (C3-C14)	Y

NOTES:

"#" = NLS status is undetermined—see 46 CFR 153.900(c) for shipping on an oceangoing vessel.

"†" = Marine occupational safety and health regulations for benzene, 46 CFR part 197, subpart C, may apply to this cargo.

"[ ]" = Provisional categorization to which the United States is party.

"@" = 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.

"*" From the March 2012 Annex to the 2007 edition of the IBC Code.

"Cat" = Pollution category.

"F" = Flammable (flash point less than or equal to 60 degrees C (140 degrees F) NLS.

"I" = An "oil" under MARPOL Annex I.

Italicized words are not part of the cargo name but may be used in addition to the cargo name.

"n.o.s." = Not otherwise specified.

"OS" = An "other substance" considered at present to present no harm to marine resources, human health, amenities, or other legitimate uses of the sea when discharged into the sea from tank cleaning or deballasting operations.

"see" = A redirection to the preferred, alternative cargo name—for example in "*Diethyl ether, see* Ethyl ether," the pollution category for "diethyl ether" will be found under the preferred, alternative cargo name "ethyl ether."

"ST" = Ship type.

"X," "Y," and "Z" = NLS categories under MARPOL Annex II.

PART 150—COMPATIBILITY OF CARGOES

■ 3. The authority citation for part 150 continues to read as follows:

Authority: 46 U.S.C. 3306, 3703; Department of Homeland Security Delegation No. 0170.1. Section 150.105 issued under 44 U.S.C. 3507; Department of Homeland Security Delegation No. 0170.1.

■ 4. Revise Table I to Part 150 to read as follows:

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Acetaldehyde	19		AAD.	
Acetic acid	4	2	AAC.	
Acetic anhydride	11	2	ACA.	
Acetochlor	10		ACG.	
Acetone	18	2	ACT.	
Acetone cyanohydrin	0	1, 2	ACY.	
Acetonitrile	37		ATN.	
Acetonitrile (low purity grade) *	37	3	AIL.	
Acetophenone	18		ACP.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Acid oil mixture from soybean, corn (maize) and sunflower oil refining, see Oil, misc: Acid mixture from soybean, corn (maize) and sunflower oil refining*.	34	3	.....	AOM.
Acrolein	19	2	ARL.	
Acrylamide solution (50% or less)*	10	3	AAM	AAO.
Acrylic acid	4	2	ACR.	
Acrylic acid/ethenesulfonic acid copolymer with phosphonate groups, sodium salt solution*.	30	3	APG.	
Acrylonitrile	15	2	ACN.	
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol	20	.....	ALE.	
Adiponitrile	37	.....	ADN.	
Alachlor technical (90% or more)*	33	3	ALH	ALI.
Alcohol (C12-C13, branched and linear) poly (4-8) propoxy sulfates, sodium salt 25-30% solution*.	41	3	ABL.	
Alcohol (C9-C11) poly (2.5-9) ethoxylates*	40	3	AET	ALY/APV/APW.
Alcohol (C6-C17) (secondary) poly (3-6) ethoxylates*	40	3	AEA	AEB.
Alcohol (C6-C17) (secondary) poly (7-12) ethoxylates*	40	3	AEB	AEA.
Alcohol (C12-C16) poly (1-6) ethoxylates*	40	3	AED	AET/ALY/APW.
Alcohol (C12-C16) poly (7-19) ethoxylates*	40	3	APV	AET/ALY/APV.
Alcohol (C12-C16) poly (20+) ethoxylates*	40	3	APW	AET/ALY.
Alcoholic beverages, n.o.s.*	20	3	ABV.	
Alcohols (C13+)	20	.....	ALY	ASY/AYK.
Including:				
Oleyl alcohol (octadecenol).				
Pentadecanol.				
Tallow alcohol.				
Tetradecanol.				
Tridecanol.				
Alcohol polyethoxylates	20	.....	.....	AEA/AEB/AED/AET/APV/APW.
Alcohol polyethoxylates, secondary	20	.....	.....	AEA/AEB.
Alcohol (C12-C15) poly (. . .) ethoxylate, see Alcohol (C12-C16) poly (. . .) ethoxylate.	20			
Alcohols (C12+), primary, linear*	20	3	ASY	ALR/AYK/AYL.
Alcohols (C8-C11), primary, linear and essentially linear	20	.....	ALR	AYK/AYL.
Alcohols (C12-C13), primary, linear and essentially linear*	20	3	AYK	ALR/ASY/AYL.
Alcohols (C14-C18), primary, linear and essentially linear*	20	3	AYL	ALR/ASY/AYK.
Alkanes (C6-C9)	31	.....	ALK.	
Including:				
Heptanes.				
Hexanes.				
Nonanes.				
Octanes.				
iso- & cyclo-Alkanes (C10-C11)	31	.....	AKI.	
iso- & cyclo-Alkanes (C12+)	31	.....	AKJ.	
Alkanes (C10-C26), linear and branched (flash point > 60 °C)*	31	3	ABD.	
n-Alkanes (C10+) (all isomers)	31	.....	ALV	ALJ.
Including:				
Decanes.				
Dodecanes.				
Heptadecanes.				
Tridecanes.				
Undecanes.				
Alkane (C14-C17) sulfonic acid, sodium salt solutions, see Sodium alkyl (C14-C17) sulfonates (60-65% solution).	34	.....	AKA	SAA (AKE/SSU).
Alkaryl polyethers (C9-C20)	41	.....	AKP.	
Alkenoic acid, polyhydroxy ester borated*	0	1, 3	AAY.	
Alkenyl(C11+)amide	10	.....	AKM.	
Alkenyl (C8+) amine, Alkenyl (C12+) acid ester mixture.				
Alkenyl (C16-C20) succinic anhydride	11	.....	AAH.	
Alkyl acrylate-Vinyl pyridine copolymer in Toluene	32	.....	AAP.	
Alkyl amine (C17+)	7	.....	AKY.	
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers).	34	.....	ADP.	
Alkylated (C4-C9) hindered phenols*	21	3	AYO.	
Alkyl(C3-C4)benzenes	32	.....	AKC.	
Including:				
Butylbenzenes.				
Cumene.				
Propylbenzenes.				
Alkyl(C5-C8)benzenes	32	.....	AKD..	
Including:				

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Amylbenzenes.				
Heptylbenzenes.				
Hexylbenzenes.				
Octylbenzenes.				
Alkyl(C9+)benzenes	32		AKB.	
Including:				
Decylbenzenes.				
Dodecylbenzenes.				
Nonylbenzenes.				
Tetradecylbenzenes.				
Tetrapropylbenzenes.				
Tridecylbenzenes.				
Undecylbenzenes.				
Alkylbenzene, Alkylindane, Alkylindene mixture (each C12-C17)	32		AIH.	
Alkyl benzene distillation bottoms *	0	1, 3	ABB.	
Alkylbenzene mixtures (containing at least 50% of Toluene) *	32	3	AZT.	
Alkyl (C11-C17) benzene sulfonic acid *	0	1, 3	ABN	ABS/ABQ.
Alkylbenzenesulfonic acid (less than 4%)	0	1, 2	ABQ	ABS/ABN.
Alkylbenzene sulfonic acid, sodium salt solution	33		ABT.	
Alkyl (C12+) dimethylamine *	7	3	ADM.	
Alkyl dithiocarbamate (C19-C35) *	34	3	ADB.	
Alkyl dithiothiadiazole (C6-C24)	33		ADT.	
Alkyl polyglucoside solution, see individual polyglucoside solution.	43		AGD	AGL/AGM AGN/AGO/AGP.
Alkyl ester copolymer (C4-C20)	34		AES	AEQ.
Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less) *.	43	3	AGN	AGD/AGL AGM/AGO/AGP.
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less) *.	43	3	AGO	AGD/AGL/AGN/AGP.
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less) *.	43	3	AGP	AGD/AGL/AGM/AGN/AGO.
Alkyl(C7-C9) nitrates	34	2	AKN	ONE.
Alkyl (C4-C9) phenols	21		AYI	BLT/BTP/NNP/OPH.
Alkyl(C7-C11) phenol poly(4-12)ethoxylate	40		APN	NPE.
Alkyl (C8-C40) phenol sulfide	34		AKS.	
Alkyl phenol sulfide (C8-C40), see Alkyl (C8-C40) phenol sulfide	34			AKS.
Alkyl(C8-C9) phenylamine in aromatic solvents	9		ALP.	
Alkyl(C9-C15) phenyl propoxylate	40		AXL.	
Alkyl (C8-C10) polyglucoside solution (65% or less) *	43	3	AGL	AGD/AGM/AGN/AGO/AGP.
Alkyl (C12-C14) polyglucoside solution (55% or less) *	43	3	AGM	AGD/AGL/AGN/AGO/AGP.
Alkyl (C12-C16) propoxyamine ethoxylate *	8	3	AXE	LPE.
Alkyl ester copolymer in mineral oil	34		AEQ	AES.
Alkyl phthalates, see individual phthalates	34		AYS.	
Alkyl(C10-C20), saturated and unsaturated phosphite	34		AKL.	
Alkyl succinic anhydride	11		AUA.	
Alkyl sulfonic acid ester of phenol	34		AKH.	
Alkyl (C18+) toluenes *	32	3	AUS	AYL.
Alkyl toluene	32		AYL	AUS.
Alkyl (C18-C28) toluenesulfonic acid *	0	1, 3	AUU.	
Alkyl (C18-C28) toluenesulfonic acid, Calcium salts, borated *	34	3	AUB.	
Alkyl (C18-C28) toluenesulfonic acid, Calcium salts, low overbase *.	33	3	AUL.	
Alkyl (C18-C28) toluenesulfonic acid, Calcium salts, high overbase *.	33	3	AUC.	
Allyl alcohol	15	2	ALA.	
Allyl chloride	15		ALC.	
Aluminum chloride, Hydrochloric acid solution, see ''Aluminum chloride/Hydrogen chloride solution''.	0	1	AHS	AHG.
Aluminum chloride/Hydrogen chloride solution *	0	1,3	AHG	AHS.
Aluminum hydroxide, sodium hydroxide, sodium carbonate solution (40% or less) *.	43	3	AHN.	
Aluminum sulfate solution	43	2	ASX	ALM.
Amine C-6, morpholine process residue	9		AOI.	
2-(2-Aminoethoxy)ethanol	8		AEX.	
Aminoethyldiethanolamine/Aminoethylethanolamine solution	8		ADY.	
Aminoethylethanolamine	8		AEE.	
N-Aminoethylpiperazine	7		AEP.	
2-Amino-2-hydroxymethyl-1,3-propanediol solution	43		AHL.	
2-Amino-2-methyl-1-propanol	8		APZ	APQ/APR.
Ammonia, anhydrous	6		AMA.	
Ammonia, aqueous (28% or less Ammonia), see Ammonium hydroxide.	6			AMH.

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Ammonium bisulfite solution (70% or less)	43	2	ABX	ASU.
Ammonium chloride solution (less than 25%) *	43	3	AIS	AMC.
Ammonium hydrogen phosphate solution	0	1	AMI.	
Ammonium hydroxide (28% or less Ammonia)	6		AMH.	
Ammonium lignosulfonate solution, see also Lignin liquor	43		ALG	LNL.
Ammonium nitrate solution (93% or less)	0	1	ANW	AMN/AND/ANR.
Ammonium nitrate solution (45% or less)	0	1	AND	AMN/ANR/ANW.
Ammonium nitrate/Urea solution (containing Ammonia), see Urea/Ammonium nitrate solution (containing more than 2% Ammonia).	6			UAS (ANU/UAT/UAU/UAV).
Ammonium nitrate/Urea solution (containing less than 2% free Ammonia), see Urea/Ammonium nitrate solution (containing less than 2% free Ammonia).	6			UAT (ANU/UAS/UAU/UAV).
Ammonium nitrate/Urea solution (not containing Ammonia), see Urea/Ammonium nitrate solution (containing less than 1% Ammonia).	6			UAU (ANU/UAS/UAT/UAV).
Ammonium phosphate/Urea solution, see Urea/Ammonium phosphate solution.	43			UAP (APP/URE).
Ammonium polyphosphate solution	43		AMO	
Ammonium sulfate solution	43		ASW	AME/AMS.
Ammonium sulfate solution (20% or less)	43		AME	AMS/ASW.
Ammonium sulfide solution (45% or less *)	5	3	ASS	ASF.
Ammonium thiocyanate/Ammonium thiosulfate solution	0	1	ACV	ACS.
Ammonium thiosulfate solution (60% or less *)	43	3	ATV	ATF.
Amyl acetate (all isomers *)	34	3	AEC	IAT/AML/AAS/AYA.
Amyl acid phosphate	34		AIA	
n *-Amyl alcohol	20	3	AAN	AAI/AAL/APM/ASE/IAA.
Amyl alcohol, primary *	20	3	APM	AAI/AAL/ANN/APM/IAA.
sec-Amyl alcohol *	20	3	ASE	AAI/AAL/ANN/APM/IAA.
tert-Amyl alcohol *	20	3	AAL	AAI/APM/ASE/IAA.
Amylene, see Pentene (all isomers)	30		AMW	PTX (AMX/AMZ/PTE).
tert-Amylenes, see Pentene	30		AMZ	PTX (AMW).
tert-Amyl methyl ether	41		AYE.	
Amyl methyl ketone, see Methyl amyl ketone	18		AMJ	MAK (AMK).
Aniline	9		ANL.	
Animal and Fish oils, n.o.s.	34		AFN.	
Including:				
Cod liver oil.				
Lanolin.				
Neatsfoot oil.				
Pilchard oil.				
Sperm oil.				
Animal and Fish acid oils and distillates, n.o.s.	34		AFA.	
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.				
Anthracene oil (Coal tar fraction), see Coal tar	33		AHO	COR.
Apple juice	43		APJ.	
Argon, *liquefied*	0	1	ARG.	
Aryl polyolefins (C11-C50)	32		AYF.	
Asphalt	33		ASP	ACU.
Asphalt blending stocks, roofers flux	33		ARF.	
Asphalt blending stocks, straight run residue	33		ASR.	
Asphalt emulsion	33		ASQ.	
Asphalt, Kerosene, and other components	33		AKO.	
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95-120 °C *).	31	3	AVA	GAK/GAV.
Barium long-chain (C11-C50) alkaryl sulfonate	34		BCA.	
Barium long- chain alkyl(C8-C14)phenate sulfide	34		BCH.	
Behenyl alcohol	20		BHY.	
Benzene	32	2	BNZ	BHA/BHB/PYG.
Benzene and mixtures having 10% Benzene or more	32		BHB	BHA/BNZ/PYG.
Benzene hydrocarbon mixtures (containing Acetylenes) (having 10% Benzene or more).	32		BHA	BHB/BNZ/PYG.
Benzene sulfonyl chloride	0	1, 2	BSC.	
Benzene/Toluene/Xylene mixtures (having 10% Benzene or more).	32		BTX	BHB/BNZ/PYG/TOL/XLX/XLM/XLO/XLP.

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Benzenetricarboxylic acid, trioctyl ester	34		BCE.	
Benzyl acetate	34		BZE.	
Benzyl alcohol	21		BAL.	
Benzyl chloride	36		BCL.	
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point >60 °C (>25% but < 99% by volume)*.	33	3	BIF	BIG/BIH/BII/BIJ/BIK.
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point >60 °C (>25% but <99% by volume)*.	33	3	BIG	BIF/BIH/BII/BIJ/BIK.
Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume)*.	34	3	BIH	BIF/BIG/BII/BIJ/BIK.
Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume)*.	34	3	BII	BIF/BIG/BIH/BIJ/BIK.
Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume)*.	20	3	BIJ	BIF/BIG/BIH/BII/BIK.
Boronated Calcium sulfonate	34		BCU.	
Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters*.	20	3	BFY.	
Brominated Epoxy Resin in Acetone	41		BER.	
Bromochloromethane	36		BCM.	
Butadiene (all isomers)	30		BDI.	
Butadiene/Butylene mixtures (containing Acetylenes)	30		BBM	BBX/BDI/BTN/IBL.
Butane (all isomers)	31		BMX	IBT/BUT.
Butane/Propane mixture	31		BUP	LPG
1,4-Butanediol, see Butylene glycol	20		BDO	BUG.
2-Butanone, see Methyl ethyl ketone	18			MEK.
Butene, see Butylene				BUT/IBL.
Butene oligomer	30		BOL.	
Butyl acetate (all isomers*)	34	3	BAX	BCN/BTA/BYA/IBA.
Butyl acrylate (all isomers*)	14	3	BAR	BAI/BTC.
Butyl alcohol (iso-, n-, sec-, tert-), see Butyl alcohol (all isomers)	20	2		BAN/BAS/BAT/BAY/IAL.
Butyl alcohol (all isomers*)	20	2, 3	BAY	BAN/BAS/BAT/IAL.
Butylamine (all isomers*)	7	3	BTY	BAM/BTL/BUA/IAM.
Butylbenzene (all isomers), see* Alkyl(C3-C4)benzenes	32	3	BBE	AKC.
Butyl benzyl phthalate	34		BPH.	
Butyl butyrate (all isomers*)	34	3	BBA	BIB/BUB.
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture*	14	3	DER	BMH/BMI/BMN/CEM.
Butylenes (all isomers)	30		BTN	IBL.
n*-Butyl ether	41		BTE.	
Butylene glycol	20	2	BUG	BDO.
1,2-Butylene oxide	16		BTO.	
n-Butyl ether	41	3	BTE.	
n-Butyl formate	34		BFN	BFI/BFO.
Butyl heptyl ketone	18		BHK.	
Butyl methacrylate	14		BMH	BMI/BMN.
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture, see Butyl/Decyl/Cetyl/Eicosyl methacrylate.	34			DER (BMH/BMI/BMN/CEM).
Butyl methyl ketone, see Methyl butyl ketone	18			MBJ (MBK/MIK).
n-Butyl propionate	34		BPN.	
Butyl stearate	34		BST.	
Butyl toluene	32		BUE.	
Butyraldehyde (all isomers*)	19	3	BAE	BAD/BTR.
Butyric acid	4		BRA	IBR.
gamma-Butyrolactone	0	1, 2	BLA.	
Calcium alkaryl sulfonate (C11-C50), see Calcium long-chain alkaryl sulfonate (C11-C50)*.	34	3	CAE	CAY.
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture.	34		CPX.	
Calcium alkyl (C10-C28) salicylate*	34	3	CAJ.	
Calcium alkyl salicylate, see Calcium long-chain alkyl salicylate (C13+), Calcium long-chain alkyl (C18-C28) salicylate, or Calcium alkyl (C10-C28) salicylate.	34			CAJ/CAK/CAZ.
Calcium bromide solution, see Drilling brines	43		CBI	DRS.
Calcium bromide/Zinc bromide solution, see Drilling brine (containing Zinc salts).	43			DZB.
Calcium carbonate slurry	34		CSR.	
Calcium chloride solution	43		CCS	CLC.
Calcium hydroxide slurry	5		COH	CAH.
Calcium hypochlorite solution (15% or less*)	5	3	CHU	CHY/CHZ.
Calcium hypochlorite solution (more than 15%*)	5	3	CHZ	CHU/CHY.

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Calcium lignosulfonate solution, see also Lignin liquor	43		CLL	LNL.
Calcium long-chain alkaryl sulfonate (C11-C50)	34		CAY.	
Calcium long-chain alkyl (C5-C10 *) phenate	34	3	CAU	CAN/CAQ/CAV/CAW.
Calcium long-chain alkyl (C5-C20) phenate	34		CAV	CAN/CAQ/CAU/CAW.
Calcium long-chain alkyl (C11-C40) phenate *	34	3	CAW	CAN/CAQ/CAU/CAV.
Calcium long-chain alkyl (C8-C40) phenate, see Calcium long-chain alkyl (C5-C10) phenate or Calcium long-chain alkyl (C11-C40) phenate.	34		CAQ	CAU/CAV (CAN/CAW).
Calcium long-chain alkyl phenate sulfide (C8-C40)	34		CPI.	
Calcium long-chain alkyl phenolic amine (C8-C40)	9		CPQ.	
Calcium long-chain alkyl salicylate (C13+)	34		CAK	CAJ/CAZ.
Calcium long-chain alkyl (C18-C28) salicylate *	34	3	CAJ.	
Calcium nitrate solutions (50% or less *)	34	3	CNU	CNT.
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	34		CLM	CNT/CNU/MGN/MGO/PCS/PCU/PSD.
Calcium salts of fatty acids	34		CFF.	
Calcium stearate	34		CSE.	
Calcium sulfonate/Calcium carbonate/Hydrocarbon solvent mixture.	33		CSH.	
Camelina oil *	34	3	CEL.	
Camphor oil (light)	18		CPO.	
Canola oil, see Oil, edible: Repeseed, (low erucic acid containing less than 4% free fatty acids).	34			ORO (ORP).
epsilon-Caprolactam (molten or aqueous solutions) *	22	3	CLU	CLS.
Caramel solution	43		CML.	
Carbolic oil	21		CBO.	
Carbon dioxide, *liquefied*	0	1	CDO	CDH/CDQ.
Carbon dioxide (high purity)	0	1	CDH	CDO/CDQ.
Carbon dioxide (reclaimed quality)	0	1	CDQ	CDH/CDO.
Carbon disulfide	38		CBB.	
Carbon tetrachloride	36	2	CBT	CBU.
Cashew nut shell oil (untreated), see Oil, misc: Cashew nut shell (untreated).	4			OCN.
Castor oil, see Oil, edible: Castor	34			OCA (VEO).
Catoxid feedstock	36	2	CXF.	
Caustic potash solution	5	2	CPS.	
Caustic soda solution	5	2	CSS.	
Cesium formate solution *	34	3	CSM.	
Cetyl alcohol, see Alcohols (C13+)	20			ALY (ASY/AYL).
Cetyl/Eicosyl methacrylate mixture	14	1	CEM.	
Cetyl/Stearyl alcohol, *see* Alcohols (C13+)	20			ALY (ASY/AYL).
Chlorinated paraffins (C10-C13)	36		CLH	CLG/CLJ/CLQ.
Chlorinated paraffins (C14-C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains *).	36	3	CLJ	CLG/CLH/CLQ.
Chlorinated paraffins (C14-C17) (with 52% Chlorine)	36		CLQ	CLG/CLH/CLJ.
Chlorinated paraffins (C18+) with any level of chlorine	36		CLG	CLH/CLJ.
Chlorine	0	1	CLX.	
Chloroacetic acid (80% or less *)	4	3	CHM	CHL/MCA.
Chlorobenzene	36		CRB.	
Chlorodifluoromethane (*monochlorodifluoromethane*)	36		MCF.	
2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution	0	1	CET.	
Chloroform	36		CRF.	
Chlorohydrins (crude *)	17	3	CHD.	
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution.	9		CDM.	
o-Chloronitrobenzene	42		CNO	CNP.
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one	18	2	CDP.	
2- or 3-Chloropropionic acid	4		CPM	CLA/CLP.
Chlorosulfonic acid	0	1	CSA.	
m-Chlorotoluene *	36	3	CTM	CHI/CRN/CTO.
o-Chlorotoluene *	36	3	CTO	CHI/CRN/CTM.
p-Chlorotoluene *	36	3	CRN	CHI/CTM/CTO.
Chlorotoluenes (mixed isomers) *	36	3	CHI	CRN/CTM/CTO.
Choline chloride solution	20		CCO.	
Citric acid (70% or less *)	4	3	CIS	CIT.
Clay slurry	43		CLY.	
Coal slurry	43		COG	COA.
Coal tar	33		COR	OCT.
Coal tar crude bases	33		CTB.	
Coal tar distillate, see Naphtha: Coal tar solvent	33		CDL	NCT (CTU).
Coal tar naphtha solvent, see Naphtha: Coal tar solvent	33			NCT (CDL/CTU).
Coal tar pitch (molten *)	33	3	CTP.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Cocoa butter, see Oil, edible: Cocoa butter	34			OCB (VEO).
Coconut oil, see Oil, edible: Coconut	34			OCC (VEO).
Coconut oil, fatty acid, see Oil, misc: Coconut fatty acid	34	2		CFA.
Coconut oil, fatty acid methyl ester, see Oil, misc: Coconut fatty acid methyl ester*.	34	3		OCM.
Copper salt of long-chain (C17+) alkanoic acid	34		CUS	CFT.
Copper salt of long-chain (C3-C16) fatty acid	34		CFT	CUS.
Corn oil, see Oil, edible: Corn	34			OCO (VEO).
Cotton seed oil, see Oil, edible: Cotton seed	34			OCS (VEO).
Cottonseed oil, fatty acid	34		CFY.	
Creosote	21	2	CCW	CCT/CWD.
Creosote (coal tar*)	21	2, 3	CCT	CCW.
Creosote (wood tar*)	21	2, 3	CWD	CCT/CCW.
Cresols (all isomers*)	21	3	CRS	CFO/CFP/CRL/CRO/CSC/CSO.
Cresols with less than 5% Phenol, see Cresols (all isomers)	21		CFO	CRS (CFP/CRL/CRO/CSO).
Cresols with 5% or more Phenol, see Phenol	21		CFP	PHN (CFO/CRL/CRO/CRS/CSO).
Cresylate spent caustic, see Cresylic acid, sodium salt solution	5		CSC	CYD.
Cresylic acid, dephenolized	21		CAD	CRY/CYN.
Cresylic acid, sodium salt solution	5		CYD	CSC.
Cresylic acid with 5% or more phenol	21		CYN	CAD/CRY.
Cresylic acid tar	21		CRX.	
Crotonaldehyde	19	2	CTA.	
Crude isononylaldehyde, see Isononyldehyde (crude)	19			INC.
Crude isopropanol, see Isoproyl alcohol, crude	20			IPB (IPA/PAL).
Crude piperazine, see Piperazine, crude	7			PZC (PPZ/PIZ).
Cumene, see Propylbenzene (all isomers)	32		CUM	AKD (PBY/PBZ).
1,5,9-Cyclododecatriene	30		CYT.	
Cycloheptane	31		CYE.	
Cyclohexane	31		CHX.	
Cyclohexanol	20		CHN.	
Cyclohexanone	18	2	CCH.	
Cyclohexanone/Cyclohexanol mixture	18	2	CYX.	
Cyclohexyl acetate	34		CYC.	
Cyclohexylamine	7		CHA.	
1,3-Cyclopentadiene dimer (molten*)	30	3	CPD	DPT/DPV.
Cyclopentadiene/Styrene/Benzene mixture	30		CSB.	
Cyclopentane	31		CYP.	
Cyclopentene	30		CPE.	
p*-Cymene	32		CMP.	
Decahydronaphthalene	33		DHN.	
Decaldehyde	19		DAY	IDA/DAL.
Decane (all isomers), see n-Alkanes (C10+) (all isomers)	31		DCC	ALV (ALJ).
Decanoic acid	4		DCO	NEA.
Decene	30		DCE.	
Decyl acetate	34		DYA.	
Decyl acrylate	14		DAT	IAI/DAR.
Decyl alcohol (all isomers*)	20	2, 3	DAX	ISA/DAN.
Decyl/Dodecyl/Tetradecyl alcohol mixture*	20	3	DYO	DAN/DAX/DDN/ISA.
Decylbenzene, see Alkyl(C9+) benzenes	32		DBZ	AKB.
Decyloxytetrahydrothiophene dioxide	0	1	DHT.	
Detergent alkylate	32		DKY	AKB/DBZ/DDB/TDB/TRB/UDB.
Dextrose solution, see Glucose solution	43		DTS	GLU.
Diacetone alcohol	20	2	DAA.	
Dialkyl(C10-C14) benzenes, see Alkyl(C9+) benzenes	32		DAB	AKB.
Dialkyl(C8-C9) diphenylamines	9		DAQ.	
Dialkyl(C7-C13) phthalates	34		DAH.	
Including:				
Di-(2-ethylhexyl) phthalate.				
Diheptyl phthalate.				
Dihexyl phthalate.				
Diisooctyl phthalate.				
Diisodecyl phthalate.				
Diisononyl phthalate.				
Dinonyl phthalate.				
Dioctyl phthalate.				
Ditridecyl phthalate.				
Diundecyl phthalate.				

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Dialkyl (C9-C10) phthalates, see Dialkyl (C7-C13) phthalates	34		DLK	DLH (DAP/DHL/DHP/DID/DIE/DIF/DIN/DIO/DIT/DOP/DPA/DTP/DUP).
Dialkyl thiophosphates sodium salts solution *	34	3	DYH.	
Dibromomethane	36		DBH.	
Dibutylamine	7		DBA.	
Dibutyl carbinol, see Nonyl alcohol (all isomers)	20			NNS (DBC/NNI/NNN).
Dibutyl hydrogen phosphonate	34		DHD.	
Dibutylphenols	21		DBT	DBV/DBW.
2,6-Di-tert-butylphenol *	21	3	DBW	DBF/DBT/DBV.
Dibutyl phthalate	34		DPA	DIT.
Dibutyl terephthalate *	34	3	DYE.	
Dichlorobenzene (all isomers *)	36	3	DBX	DBM/DBO/DBP.
3,4-Dichloro-1-butene	36		DCD	DCB.
Dichlorodifluoromethane	36		DCF.	
1,1-Dichloroethane	36	2	DCH.	
Dichloroethyl ether *	41	3	DYR	DEE.
1,6-Dichlorohexane	36		DHX.	
2,2′-Dichloroisopropyl ether	41		DCI.	
Dichloromethane	36	2	DCM.	
2,4-Dichlorophenol	21		DCP.	
2,4-Dichlorophenoxyacetic acid/Diethanolamine salt solution	43		DDE.	
2,4-Dichlorophenoxyacetic acid/Dimethylamine salt solution (70% or less) *.	0	1, 2, 3	DDA	DAD/DSX.
2,4-Dichlorophenoxyacetic acid/Triisopropanolamine salt solution	43	2	DTI.	
1,1-Dichloropropane	36		DPB	DPC/DPL/DPP/DPX.
1,2-Dichloropropane *	36	3	DPP	DPB/DPC/DPL/DPX.
1,3-Dichlorpropane	36		DPC	DPB/DPL/DPP/DPX.
Dichloropropene (all isomers)	15		DCW	DPF/DPU.
1,3-Dichloropropene	15			DCW/DPF.
Dichloropropene/Dichloropropane mixtures	15		DMX	DCW/DPB/DPC/DPL/DPP/DPU/DPX.
2,2-Dichloropropionic acid	4		DCN.	
Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)	30		DPT	CPD (DPV).
Dicyclopentadiene, Resin Grade, 81-89% *	30	3	DPV	CPD/DPT.
Diethanolamine	8		DEA.	
Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution.	43		DZZ	DDE.
Diethylamine	7		DEN.	
Diethylaminoethanol	8		DAE.	
2,6-Diethylaniline	9		DMN	DIY.
Diethylbenzene	32		DEB.	
Diethylene glycol	40	2	DEG.	
Diethylene glycol butyl ether, see Poly(2-8) alkylene glycol monoalkyl(C1-C6) ether.	40		DME	PAG.
Diethylene glycol butyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.	34		DEM	PAF.
Diethylene glycol dibutyl ether	40		DIG.	
Diethylene glycol diethyl ether	40		DGS.	
Diethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.	40		DGE	PAG.
Diethylene glycol ethyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetates.	34		DGA	PAF.
Diethylene glycol n-hexyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		DHE	PAG.
Diethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		DGM	PAG.
Diethylene glycol methyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.	34		DGR	PAF.
Diethylene glycol phenyl ether	40		DGP.	
Diethylene glycol phthalate	34		DGL.	
Diethylene glycol propyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		DGO	PAG.
Diethylenetriamine	7	2	DET.	
Diethylenetriaminepentaacetic acid, pentasodium salt solution	43		DYS.	
Diethylethanolamine, see Diethylaminoethanol	8			DAE.
Diethyl ether	8		EET.	
Diethyl hexanol, see Decyl alcohol (all isomers)	20			DAX.
Di-(2-ethylhexyl) adipate	34		DEH.	
Di-(2-ethylhexyl) phosphoric acid	1		DEP.	
Di-(2-ethylhexyl) phthalate, see Dialkyl (C7-C13) phthalate	34		DIE	DAH.

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Di-(2-ethylhexyl) terephthalate	34		DHH.	
Diethyl phthalate	34		DPH.	
Diethyl sulfate	34		DSU.	
Diglycidyl ether of Bisphenol A	41		BDE.	
Diglycidyl ether of Bisphenol F	41		DGF.	
Diheptyl phthalate, see Dialkyl (C7-C13) phthalate	34		DHP	DAH.
Di-n-hexyl adipate	34		DHA.	
Dihexyl phthalate	34		DHL.	
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	5		DDH.	
Diisobutylamine	7		DBU.	
Diisobutyl carbinol, see Nonyl alcohol (all isomers)	20		DBC	NNS.
Diisobutylene	30		DBL.	
Diisobutyl ketone	18		DIK.	
Diisobutyl phthalate	34		DIT	DPA.
Diisodecyl phthalate, see Dialkyl (C7-C13) phthalates	34		DID	DAH.
Diisononyl adipate	34		DNY.	
Diisononyl phthalate, see Dialkyl (C7-C13) phthalates	34	2	DIN	DAH.
Diisooctyl phthalate, see Dialkyl (C7-C13) phthalate	34		DIO	DAH/(DIE/DOP).
Diisopropanolamine	8		DIP.	
Diisopropylamine	7		DIA	DNA.
Diisopropylbenzene (all isomers)	32		DIX.	
Diisopropylnaphthalene	32		DII.	
N,N-Dimethylacetamide	10		DAC	DLS.
N,N-Dimethylacetamide solution (40% or less*)	10	3	DLS	DAL.
Dimethyl adipate	34		DLA.	
Dimethylamine	7		DMA	DMC/DMG/DMY.
Dimethylamine solution (45% or less*)	7	3	DMG	DMA/DMC/DMY.
Dimethylamine solution (greater than 45% but not greater than 55%)*.	7	3	DMY	DMA/DMC/DMG.
Dimethylamine solution (greater than 55% but not greater than 65%)*.	7	3	DMC	DMA/DMG/DMY.
Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution.	9			CDM.
Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less).	9		DAD	DDA (DSX).
2,6-Dimethylaniline	9		DMM	DDL.
Dimethylbenzene, see Xylenes	32			XLX/XLM/XLO/XLP.
N,N-Dimethylcyclohexylamine	7		DXN.	
Dimethyl disulfide*	0	1, 2, 3	DSK.	
Dimethyldodecylamine, see N,N-Dimethyldodecylamine	7			DDY.
N,N-Dimethyldodecylamine	7		DDY.	
Dimethylethanolamine	8		DMB.	
Dimethyl ether	41		DIM.	
Dimethylformamide	10		DMF.	
Dimethyl glutarate	34		DGT.	
Dimethyl hydrogen phosphite	34	2	DPI.	
Dimethyl octanoic acid	4		DMO.	
Dimethyl phthalate	34		DTL.	
Dimethylpolysiloxane	34		DMP.	
2,2-Dimethylpropane-1,3-diol (molten or solution*)	20	3	DDI.	
Dimethyl succinate	34		DSE.	
Dinitrotoluene (molten*)	42	3	DNM	DNL/DNU/DTT.
Dinonyl phthalate, see Dialkyl (C7-C13) phthalates	34		DIF	DAH.
Dioctyl phthalate, see Dialkyl (C7-C13) phthalates	34		DOP	DAH (DIE/DIO).
1,4-Dioxane	41		DOX.	
Dipentene	30		DPN.	
Diphenyl	32		DIL.	
Diphenylamine (molten)	9		DAG	DAM.
Diphenylamine, reaction product with 2,2,4-trimethylpentene	9		DAK.	
Diphenylamines, alkylated	9		DAJ.	
Diphenyl/Diphenyl ether mixtures	33		DDO.	
Diphenyl ether	41		DPE.	
Diphenyl ether/Biphenyl ether mixture, see Diphenyl/Diphenyl ether mixture.	41			DDO.
Diphenyl ether/Diphenyl phenyl ether mixture	41		DOB.	
Diphenylmethane diisocyanate	12		DPM.	
Diphenylol propane-Epichlorohydrin resins	0	1	DPR.	
Diphenyl oxide, see Diphenyl ether	40			DPE.
Di-n-propylamine	7		DNA	DIA.
Dipropylene glycol	40		DPG.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Dipropylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		DBG	PAG.
Dipropylene glycol dibenzoate	34		DGY.	
Dipropylene glycol methyl ether, see Poly (2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		DPY	PAG.
Distillates, flashed feed stocks	33		DFF.	
Distillates, straight run	33		DSR.	
Di-tert-butyl phenol	21		DBF	DBT/DBV/DBW.
2,4-Di-tert-butyl phenol	21		DBV	DBF/DBT/DBW.
2,6-Di-tert-butyl phenol	21		DBW	DBF/DBT/DBV.
Dithiocarbamate ester (C7-C35)	34		DHO.	
Ditridecyl adipate	34		DTY.	
Ditridecyl phthalate, see Dialkyl (C7-C13) phthalate	34		DTP	DAH.
Diundecyl phthalate, see Dialkyl (C7-C13) phthalates	34		DUP	DAH.
Dodecane (all isomers), see Alkanes (C10+) (all isomers)	31		DOF	ALV (ALJ/DOC).
tert-Dodecanethiol	0	1, 2	DDL	LRM.
Dodecene (all isomers*)	30	3	DOZ	DDC/DOD.
Dodecanol (all isomers), see Dodecyl alcohol (all isomers)	20	2	DDN	LAL.
2-Dodecenylsuccinic acid, dipotassium salt solution	34		DSP.	
Dodecyl alcohol (all isomers)	20		DDN	ASK/ASY/LAL.
Dodecylamine/Tetradecylamine mixture	7		DTA.	
Dodecylbenzene, see Alkyl (C9+) benzenes	32		DDB	AKB.
Dodecyldimethylamine/Tetradecyldimethylamine mixture	7		DOT.	
Dodecyl diphenyl ether disulfonate solution	43		DTA.	
Dodecyl hydroxypropyl sulfide	0	1	DOH.	
Dodecyl methacrylate	14		DDM.	
Dodecyl/Octadecyl methacrylate mixture	14		DOM	DDM.
Dodecyl/Pentadecyl methacrylate mixture	14		DDP.	
Dodecyl phenol	21		DOL.	
Dodecyl xylene	32		DXY.	
Drilling brines (containing Calcium, Potassium or Sodium salts)	43		DRL	DRB/DRS.
Drilling brines (containing Zinc salts)	43		DZB	DRB.
Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution*.	43	3		DRS/DRL.
Drilling mud (low toxicity) (*if flammable or combustible*)	33		DRO	DRM/DRN/DRP.
Drilling mud (low toxicity) (*if non-flammable or non-combustible*)	43		DRP	DRM/DRN/DRO.
Epichlorohydrin	17		EPC.	
Epoxy resin	18		EPN.	
ETBE, see Ethyl tert-butyl ether	40			EBE.
Ethane	31		ETH.	
Ethanolamine	8		MEA.	
2-Ethoxyethanol, see Ethylene glycol monoalkyl ethers	40		EEO	EGC (EGE).
2-Ethoxyethyl acetate	34	2	EEA	EGA.
Ethoxylated alkyloxy alkyl amine	8		ELM.	
Ethoxylated alcohols, C11-C15, see the alcohol poylethoxylates	40			AEA/AEB/AED/AET/APV/APW/APX.
Ethoxylated long-chain (C16+) alkyloxyalkylamine	8		ELA.	
Ethoxylated tallow alkyl amine	7		TAY	TAG/TAR.
Ethoxylated tallow amine (>95%)*	7	3	TAR	TAG/TAY.
Ethoxylated tallow alkyl amine, glycol mixture	7		TAG	TAR/TAY.
Ethoxy triglycol, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether.	40		ETG	PAG (ETR/TGE).
Ethoxy triglycol (crude)	40		ETR.	
Ethyl acetate	34	2	ETA.	
Ethyl acetoacetate	34		EAA.	
Ethyl acrylate	14	2	EAC.	
Ethyl alcohol	20	2	EAL.	
Ethylamine	7	2	EAM	EAN/EAO.
Ethylamine solution (72% or less*)	7	3	EAN	EAM/EAO.
Ethyl amyl ketone	18		EAK	ELK.
Ethylbenzene	32		ETB.	
Ethyl butanol	20		EBT.	
N-Ethyl-butylamine	7		EBA.	
Ethyl tert-butyl ether	41	2	EBE.	
Ethyl butyrate	34		EBR.	
Ethyl chloride	36		ECL.	
Ethyl cyclohexane	31		ECY.	
N-Ethylcyclohexylamine	7		ECC.	
2-Ethyl-2-(2,4-dichlorophenoxy) acetate	34		EDY.	
2-Ethyl-2-(2,4-dichlorophenoxy) propionate	34		EDP.	
S-Ethyl dipropylthiocarbamate*	34	3	ECB.	
Ethylene	30		ETL.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Ethylene carbonate	34		ECR.	
Ethylene chlorohydrin	20		ECH.	
Ethylene cyanohydrin	20	2	ETC.	
Ethylenediamine	7	2	EDA	EMX.
Ethylenediaminetetraacetic acid/tetrasodium salt solution	43		EDS.	
Ethylene dibromide	36		EDB.	
Ethylene dichloride	36	2	EDC.	
Ethylene glycol	20	2	EGL	EAG.
Ethylene glycol acetate	34		EGO.	
Ethylene glycol butyl ether, see Ethylene glycol monoalkyl ethers.	40		EGM	EGC.
Ethylene glycol tert-butyl ether, see Ethylene glycol monoalkyl ethers.	40		EGG	EGC.
Ethylene glycol butyl ether acetate	34		EMA.	
Ethylene glycol diacetate	34		EGY.	
Ethylene glycol dibutyl ether	40		EGB.	
Ethylene glycol ethyl ether, see Ethyl glycol monoalkyl ethers	40		EGE	EGC/EEO.
Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate	34	2	EGA	EEA.
Ethylene glycol hexyl ether, see Ethylene glycol monoalkyl ethers.	40		EGH	EGC.
Ethylene glycol isobutyl ether, see Ethylene glycol monoalkyl ethers.	40			EGC (EGG/EGM).
Ethylene glycol isopropyl ether, see Ethylene glycol monoalkyl ethers.	40		EGI	EGN/EGP.
Ethylene glycol methyl butyl ether, see Ethylene glycol monoalkyl ethers.	40		EMB	EGC.
Ethylene glycol methyl ether, see Ethylene glycol monoalkyl ethers.	40		EME	EGC.
Ethylene glycol methyl ether acetate	34		EGT.	
Ethylene glycol monoalkyl ethers *Including:* *Ethylene glycol butyl ether.* *Ethylene glycol isobutyl ether.* *Ethylene glycol methyl butyl ether.* *Ethylene glycol tert-butyl ether.* *Ethylene glycol ethyl ether.* *Ethylene glycol hexyl ether.* *Ethylene glycol methyl ether.* *Ethylene glycol propyl ether.* *Ethylene glycol iso-propyl ether.*	40	2	EGC.	
Ethylene glycol phenyl ether	40		EPE.	
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture.	40		EDX.	
Ethylene glycol propyl ether, see Ethylene glycol monoalkyl ethers.	40		EGP	EGC/EGI/EGN.
Ethylene glycol iso-propyl ether, see Ethylene glycol monoalkyl ethers.	40		EGI	EGC/EGN/EGP.
Ethylene glycol n-propyl ether, see Ethylene glycol monoalkyl ethers.	40		EGN	EGC (EGI/EGP).
Ethylene oxide	0	1	EOX.	
Ethylene oxide/Propylene oxide mixture	16		EPF	EPM.
Ethylene oxide/Propylene oxide mixture with an Ethylene oxide content not more than 30% by mass*.	16	3	EPM	EPF.
Ethylene-Propylene copolymer (in liquid mixtures)	31		EPY.	
Ethylene-Vinyl acetate copolymer (emulsion)	43		ECV.	
Ethyl ether, see Diethyl ether	41			EET.
Ethyl-3-ethoxypropionate	34		EEP.	
2-Ethylhexaldehyde, see Octyl aldehydes	19		EHA	OAL (OLX).
2-Ethylhexanoic acid, see Octanoic acid	4		EHO	OAY (OAA).
2-Ethylhexanol, see Octanol	20		EHX	OCA (OTA).
2-Ethylhexyl acrylate	14		EAI.	
2-Ethylhexylamine	7		EHM.	
Ethyl hexyl phthalate	34		EHE.	
Ethyl hexyl tallate	34		EHT.	
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, (C8-C10) ester	34		EHD.	
Ethyl lactate	34		ELT.	
Ethylidene norbornene	30	2	ENB.	
Ethyl methacrylate	14		ETM.	
N-Ethylmethylallylamine	7		EML.	
Ethyl propionate	34		EPR.	
2-Ethyl-3-propylacrolein	19	2	EPA.	
Ethyl toluene	32		ETE.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Fatty acids (saturated, C13+)	34		FAB	FAD.
Fatty acids (saturated, C14+), see Fatty acids (saturated, C13+)	34		FAD	FAB.
Fatty acid methyl esters *	4	3	FME.	
Fatty acids, (C8-C10) *	4	3	FDS.	
Fatty acids, (C12+) *	4	3	FDT	FAB/FAD/FAI/FDI.
Fatty acids, (C16+) *	4	3	FDI.	
Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester *	4	2, 3	FAE.	
Ferric chloride solution	1		FCS	FCL.
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.	43	2	FHX	STA.
Ferric nitrate/Nitric acid solution	3	2	FNN.	
Fish oil, see Oil, edible: Fish	34	2		OFS (AFN).
Fish solubles (*water based fish meal extracts*)	43		FSO.	
Fluorosilicic acid (20-30%) in water solution *	1	3	FSK	FSJ/FSL/HFS.
Fluorosilicic acid (30% or less)	1		FSJ	FSK/FSL/HFS.
Formaldehyde (50% or more), Methanol mixtures	19	2	MTM.	
Formaldehyde solutions (37%–50%)	19	2	FMS	FMG/FMR.
Formaldehyde solutions (45% or less *)	19	2, 3	FMR	FMG/FMS.
Formamide	10		FAM.	
Formic acid	4	2	FMA	FMB.
Formic acid (85% or less)	19	2	FMB	FMA.
Formic acid (over 85%) *	4	2, 3	FMD.	
Formic acid mixture (containing up to 18% Propionic acid and up to 25% Sodium formate) *.	4	2, 3	FMC	FMA/FMB.
Fructose solution	43		FTS	FRT.
Fumaric adduct of Rosin, water dispersion	43		FAR.	
Furfural	19		FFA.	
Furfuryl alcohol	20	2	FAL.	
Gas oil, cracked, see Oil, misc: Gas, cracked	33			GOC.
Gasoline blending stock, alkylates	33		GAK.	
Gasoline blending stock, reformates	33		GRF.	
Gasolines:				
Automotive (containing *not over 4.23 grams lead per gal.*)	33		GAT.	
Aviation (containing *not over 4.86 grams lead per gal.)*	33		GAV	AVA.
Casinghead (*natural*)	33		GCS.	
Polymer	33		GPL.	
Straight run	33		GSR.	
Gasolines: Pyrolysis (containing Benzene), see Pyrolysis gasoline (containing Benzene).	33		GPY	PYG.
Glucitol/Glycerol blend propoxylated (containing less than 10% amines) *.	40	3	GGA.	
Glucose solution	43		GLS	DTS.
Glutaraldehyde solutions (50% or less)	19		GTA.	
Glycerine	20	2	GCR.	
Glycerine (83%)/Dioxanedimethanol (17%) mixture	20		GDN	GDM.
Glycerol, see Glycerine	20			GCR.
Glycerol ethoxylated	40		GXA.	
Glycerol monooleate	20		GMO.	
Glycerol polyalkoxylate	40		GPA.	
Glycerol propoxylated *	40	3	GXP.	
Glycerol, propoxylated and ethoxylated *	40	3	GXE.	
Glycerol/Sucrose blend propoxylated and ethoxylated *	40	3	GSB.	
Glyceryl triacetate	34		GCT.	
Glycidyl ester of tertiary carboxylic acid, see Glycidyl ester of C10 trialkyl acetic acid.	34		GLT	GLU.
Gylcidyl ester of tridecyl acetic acid, see Glycidyl ester of C10 trialkyl acetic acid.	34		GLT	GLU.
Glycidyl ester of C10 trialkyl acetic acid	34		GLU	GLT.
Glycidyl ester of Versatic acid, see Gylcidyl ester of C10 trialkyl acetic acid.	34		GLT	GLU.
Glycine, sodium salt solution	7		GSS.	
Glycol mixture, crude	20		GMC.	
Glycol diacetate, see Ethylene glycol diacetate	34			EGY.
Glycolic acid solution (70% or less *)	4	3	GLC.	
Glycol triacetate, see Glyceryl triacetate	34			GCT.
Glyoxal solution (40% or less *)	19	3	GOS.	
Glyoxylic acid solution (50% or less *)	4	3	GAC.	
Glyphosate solution (not containing surfactant)	7		GIO	RUP.
Groundnut oil, see Oil, edible: Groundnut	34			OGN (VEO).
Heptadecane (all isomers), see Alkanes (C10+) (all isomers)	31			ALV (ALJ).
Heptane (all isomers), see Alkanes (C6-C9)	31		HMX	ALK(HPI/HPT).
n-Heptanoic acid	4		HEN	HEP.

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Heptanol (all isomers *)	20	3	HTX	HTN.
Heptene (all isomers *)	30	3	HPX	THE.
Heptyl acetate	34		HPE.	
Heptylbenzenes, see Alkyl (C3-C4) benzenes	32			AKD.
Herbicide (C15–H22–NO2-Cl), see Metolachlor	34			MCO.
Hexadecanol, see Alcohols (C13+)	20			ALY (ASY/AYL).
1-Hexadecylnaphthalene/1,4-bis(Hexadecyl)naphthalene mixture	32		HNH	HNI.
1-n-Hexadecylnaphthalene (90%)/1,4-di-n-(Hexadecyl)naphthalene (10%).	32		HNI	HNH.
Hexaethylene glycol, see Polyethylene glycol	20		HMG	PEG.
Hexamethylenediamine adipate solution	43		HAN	HAM.
Hexamethylenediamine adipate (50% in water)	43		HAM	HAN.
Hexamethylenediamine (molten *)	7	3	HME	HMD/HMC.
Hexamethylenediamine solution	7		HMC	HMD/HME.
Hexamethylene diisocyanate	12		HMS	HDI.
Hexamethylene glycol	20		HMG	HXG.
Hexamethyleneimine	7		HMI.	
Hexamethylenetetramine solutions	7		HTS	HMT.
1,6-Hexanediol, distillation overheads *	4	2, 3	HDO.	
Hexanoic acid	4		HXO.	
Hexanol	20		HXM	HEW/HEZ/HXN.
Hexene (all isomers *)	30	3	HEX	HXE/HXT/HXU/HXV/MPN/MTN.
Hexyl acetate	34		HAE.	
Hexylbenzenes, see Alkyl (C3-C4) benzenes	32			AKD.
Hexylene glycol, see Hexamethylene glycol	20		HXG	HMG.
Hog grease, see Lard	34			LRD.
Hydrochloric acid	1		HCL.	
Hydrofluorosilicic acid (25% or less), see Fluorosilicic acid (30% or less).	1			FSJ(FSK/FSL/HFS).
Hydrogenated starch hydrolysate *	0	1, 3	HSH.	
bis(Hydrogenated tallow alkyl)methyl amines	7		HTA.	
Hydrogen peroxide solutions (over 8% but not over 60% by mass) *.	0	1,3	HPN	HPO/HPS.
Hydrogen peroxide solutions (over 60% but not over 70% by mass *).	0	1, 3	HPS	HPN/HPO.
alpha-Hydro-omega-hydroxytetradeca(oxytetramethylene)	40		HTO	PYS/PYT.
2-Hydroxyethyl acrylate	14	2	HAI.	
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution.	43		HET.	
2-Hydroxy-4-(methylthio)butanoic acid	4		HBA.	
Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated.	31			PHT.
Illipe oil, see Oil, edible: Illipe	34			ILO (VEO).
Isoamyl alcohol *	20	3	IAA	AAI/AAL/AAN/APM/ASE.
Isobutyl alcohol *	20	2, 3	IAL	BAN/BAS/BAT/BAY.
Isobutyl formate *	34	3	BFI	BFN/BFO.
Isobutyl methacrylate *	14	3	BMI	BMH/BMN.
Isononylaldehyde (crude)	19		INC.	
Isophorone	18	2	IPH.	
Isophoronediamine	7		IPI.	
Isophorone diisocyanate	12		IPD.	
Isoprene (all isomers)	30		IPR.	
Isoprene (part refined)	30		IPS	IPR/ISC.
Isoprene concentrate (Shell)	30		ISC.	
Isopropanolamine *	8	3	MPA	IPF/PAX/PLA.
Isopropanolamine solution *	8	3	PAI	MPA/PAY/PLA/PRG.
Isopropyl acetate *	34	3	IAC	PAT.
Isopropyl alcohol *	20	2, 3	IPA	IPB/PAL.
Isopropylamine *	7	3	IPP	IPO/IPQ/PRA.
Isopropylamine (70% or less) solution *	7	3	IPQ	IPO/IPP/PRA.
Isopropylbenzenes, see Alkyl (C3-C4) benzenes	32			AKC(CUM/PBY/PBZ).
Isopropylcyclohexane *	31	3	IPX.	
Isopropyl ether *	41	3	IPE	PRL/PRN.
Jatropha oil, see Oil, misc: Jatropha	34			JTO.
Jet fuels:				
JP–4	33		JPF.	
JP–5	33		JPV.	
JP–8	33		JPE.	
Kaolin clay solution	43		KLC	KLS.
Kaolin slurry	43		KLS	KLC.
Kerosene	33		KRS.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Kraft black liquor	5		KBL	KPL.
Kraft pulping liquors (free alkali content 3% or more) (*Black, Green, or White*).	5		KPL	KBL.
Lactic acid	0	1	LTA.	
Lactonitrile solution (80% or less *)	37	3	LNI.	
Lard	34		LRD	OLD.
Latex, ammonia (1% or less *)-inhibited	30	3	LTX.	
Latex: Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber *.	43	3	LCC	LCB/LSB.
Latex, liquid synthetic	43		LLS	LCB/LCC/LSB.
Lauric acid	34		LRA.	
Lauric acid methyl ester/Myristic acid methyl ester mixture	34		LMM.	
Lauryl polyglucose, see Alkyl(C12-C14) polyglucoside solution (55% or less).	43			AGM/LAP.
Lauryl polyglucose (50% or less), see Alkyl (C12-C14) polyglucoside solution (55% or less).	43		LAP	AMG.
Lecithin	34		LEC.	
Lignin liquor	43		LNL	ALG/CLL/LGA/LGM/LSL/SHC/SHP/SHQ/SLP.
Ligninsulfonic acid, magnesium salt solution *	43	3	LGM	LGA/LNL/LSL.
Ligninsulfonic acid, sodium salt solution, see Lignin liquor or Sodium lignosulfonate solution.	43		LGA	LNL or SLG.
d-Limonene, see Dipentene	30			DPN.
Linear alkyl (C12-C16) propoxyamine ethoxylate	8		LPE.	
Linseed oil, see Oil, misc: Linseed	34			OLS.
Liquefied Natural Gas, see Methane	34		LNG	MTH.
Liquid chemical wastes *	0	1, 3	LCW.	
Long-chain alkaryl polyether (C11-C20)	41		LCP.	
Long-chain alkaryl sulfonic acid (C16-C60)	0	1	LCS.	
Long-chain alkyl amine	7		LAA.	
Long-chain alkylphenate/Phenol sulfide mixture	21		LPS.	
Long-chain alkyl (C13+) salicylic acid	4		LAS.	
L-Lysine solution (60% or less *)	43	3	LYS.	
Magnesium chloride solution	0	1, 2	MGL.	
Magnesium hydroxide slurry	5		MHS.	
Magnesium long-chain alkaryl sulfonate (C11-C50)	34		MAS	MSE.
Magnesium long-chain alkyl phenate sulfide (C8-C20)	34		MPS.	
Magnesium long-chain alkyl salicylate (C11+)	34		MLS.	
Magnesium nitrate solution (66.7%)	43		MGP	MGN/MGO.
Magnesium nonyl phenol sulfide, see Magnesium long-chain alkyl phenate sulfide (C8-C20).	34			MPS.
Magnesium sulfonate, see Magnesium long-chain alkaryl sulfonate (C11-C50).	34		MSE	MAS.
Maleic anhydride	11		MLA.	
Maltitol solution *	0	1, 3	MTI	
Mango kernel oil, see Oil, edible: Mango kernel	34			MKO (VEO).
2-Mercaptobenzothiazol (in liquid mixture)	5		BTM	SMD.
Mercaptobenzothiazol, sodium salt solution	5		SMB	MBT.
Mesityl oxide	18	2	MSO.	
Metam sodium solution	7		MSS	SMD.
Methacrylic acid	4		MAD.	
Methacrylic acid—Alkoxypoly(alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less) *.	20	3	MAQ.	
Methacrylic resin in ethylene dichloride	14		MRD.	
Methacrylonitrile	15	2	MET.	
Methane	31		MTH	LNG.
3-Methoxy-1-butanol	20		MTX.	
3-Methoxybutyl acetate	34		MOA.	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide, *see* Metolachlor.	34			MCO.
1-Methoxy-2-propyl acetate	34		MXP.	
Methoxy triglycol, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether.	40		MTG	PAG (TGY).
Methyl acetate	34		MTT.	
Methyl acetoacetate	34		MAE.	
Methyl acetylene/Propadiene mixture	30		MAP.	
Methyl acrylate	14		MAM.	
Methyl alcohol	20	2	MAL.	
Methylamine solutions (42% or less *)	7	3	MSZ.	
Methylamyl acetate	34		MAC.	
Methylamyl alcohol	20		MAA	MIC.
Methyl amyl ketone	18		MAK.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
N-Methylaniline *	9	3	MAN.	
alpha-Methylbenzyl alcohol with Acetophenone (15% or less) *	20	3	MBA.	
Methyl bromide	36		MTB.	
Methyl butanol, see the amyl alcohols	20			AAI/AAL/AAN/APM/ASE/IAA.
Methyl butenol	20		MBL.	
Methyl butenes, see Pentene	30			PTX (AMW/AMZ/PTE).
Methyl tert-butyl ether	41	2	MBE.	
Methyl butyl ketone	18	2	MBB	MBK/MIK.
Methyl 3-(3,5 di-tert-butyl-4-hydroxyphenyl) propionate crude melt.	20		MYP.	
Methylbutynol	20		MBY	MHB.
Methyl butyrate	34		MBU.	
Methyl chloride	36		MTC.	
Methylcyclohexane	31		MCY.	
Methylcyclohexanemethanol (crude)	20		MYH.	
Methylcyclopentadiene dimer	30		MCK.	
Methylcyclopentadienyl manganese tricarbonyl *	0	1, 3	MCT	MCW.
Methylcyclopentadienyl manganese tricarbonyl (60–70%) in mineral oil.	0	1	MCW	MCT.
Methyl diethanolamine	8		MDE	MAB.
Methylene bridged isobtylenated phenols	21		MBP.	
Methylene chloride, see Dichloromethane	21			DCM.
2-Methyl-6-ethyl aniline	9		MEN.	
Methyl ethyl ketone	18	2	MEK.	
2-Methyl-5-ethyl pyridine	9		MEP.	
Methyl formate	34		MFM.	
N-Methylglucamine solution (70% or less *)	43	3	MGC.	
2-Methylglutaronitrile	37		MLN	MGN.
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less) *	37	3	MGE	MLN.
Methyl heptyl ketone	18		MHK.	
2-Methyl-2-hydroxy-3-butyne	20		MHB	MBY.
Methyl isoamyl ketone, see Methyl amyl ketone	18		MAJ	MAK.
Methyl isobutyl carbinol, see Methyl amyl alcohol	20		MIC	MAA.
Methyl isobutyl ketone	18		MIK	MBB/MBK.
Methyl methacrylate	14		MMM.	
3-Methyl-3-methoxybutanol	20		MXB.	
3-Methyl-3-methoxybutyl acetate	34		MMB.	
Methyl naphthalene (molten *)	32	3	MNA.	
Methylolurea	19		MUT.	
2-Methyl pentane, see Hexane (all isomers)	31			HXS (ALK/HXA/IHA/NHX).
2-Methyl-1,5-pentanediamine	7		MPM.	
2-Methyl-1-pentene, see Hexene (all isomers)	30		MPN	HEX (HXE/HXT/HXU/HXV/MTN).
4-Methyl-1-pentene, see Hexene (all isomers)	30		MTN	HEX (HXE/HXT/HXU/HXV/MPN).
Methyl tert-pentyl ether, *see* tert-Amyl methyl ether	41			AYE.
2-Methyl-1,3-propanediol	20		MDL.	
Methyl propyl ketone	18		MKE.	
Methylpyridine, see the Methylpyridines	9		MPQ	MPE/MPF/MPR.
2-Methylpyridine *	9	3	MPR	MPE/MPF/MPQ.
3-Methylpyridine *	9	3	MPE	MPF/MPQ/MPR.
4-Methylpyridine *	9	3	MPF	MPE/MPQ/MPR.
N-Methyl-2-pyrrolidone	9	2	MPY.	
Methyl salicylate	34		MES.	
alpha-Methylstyrene	30		MSR.	
3-(Methylthio)propionaldehyde	19		MTP.	
Metolachlor	34		MCO.	
Microsillica slurry	4		MOS.	
Milk	43		MLK.	
Mineral spirits	33		MNS.	
Mixed C4 Cargoes	30		MIX.	
Molasses	20		MOL	MON.
Molasses residue (from fermentation)	0	1	MON	MOL.
Molybdenum polysulfide long-chain alkyl dithiocarbamide complex *.	0	1, 3	MOP.	
Monochlorodifluoromethane	36		MCF.	
Monoethanolamine, see Ethanolamine	8		MEA.	
Monoisopropanolamine, see Isopropanolamine	8			MPA (PLA/PLX).
Monoethylamine, see Methylamine	7			EAM (EAN/EAO).
Morpholine	7	2	MPL.	
Motor fuel anti-knock compound (containing lead alkyls)	0	1	MFA.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
MTBE, see Methyl tert-butyl ether	41			MBE.
Myrcene	30		MRE.	
Naphtha:				
Aromatic	33		NAR.	
Coal tar solvent	33		NCT.	
Heavy	33		NAG.	
Paraffinic	33		NPF.	
Petroleum	33		PTN.	
Solvent	33		NSV.	
Stoddard solvent	33		NSS.	
Varnish Makers' and Painters'	33		NVM.	
Naphthalene (molten *)	32	3	NTM.	
Naphthalene sulfonic acid-Formaldehyde copolymer, sodium salt solution.	0	1	NFS.	
Naphthalene sulfonic acid, sodium salt solution	34		NSB	NSA.
Naphthenic acid	4		NTI.	
Naphthenic acid, sodium salt solution	43		NTS.	
Neodecanoic acid	4		NEA	DCO/NAT.
Nitrating acid (mixture of Sulfuric and Nitric acids)	0	1	NIA.	
Nitric acid (70% and over) *	3	2, 3	NCE	NAC/NCD.
Nitric acid (less than 70%)	3	2	NCD	NAC/NCE.
Nitrilotriacetic acid, trisodium salt solution *	34	3	NCA.	
Nitrobenzene	42		NTB.	
o-Nitrochlorobenzene, see o-Chloronitrobenzene	42			CNO (CNP).
Nitroethane	42		NTE.	
Nitroethane(80%)/Nitropropane (20%) *	42	2, 3	NNL	NNM/NNO/NPM/NPN/NPP/NTE.
Nitroethane/1-Nitropropane (each 15% or more) mixture	42	2	NNO	NNL/NNM/NPM/NPN/NPP/NTE.
Nitrogen	0	1	NXX.	
Nitrophenol (mixed isomers)	42		NPX	NIP/NPH/NPX.
o-Nitrophenol (molten)	0	1, 2	NTP	NIP/NPH/NPX.
1-or 2-Nitropropane	42		NPM	NPN/NPP.
Nitropropane (60%)/Nitroethane (40%) mixture	42		NNM	NNL/NNO/NPM/NPN/NPP/NTE.
o- or p-Nitrotoluenes *	42	3	NIT	NIE/NTR/NTT.
Nonane (all isomers), see Alkanes (C6-C9)	31		NAX	ALK (NAN).
Nonanoic acid (all isomers)	4		NNA	NAI/NIN.
Nonanoic/Tridecanoic acid mixture	4		NAT	NAI/NIN/NNA.
Non-edible industrial grade palm oil, see Oil, misc: Palm, non-edible industrial grade.	34			OPB.
Nonene (all isomers)	30		NOO	NNE/NON/OAM/OFX/OFY.
Nonyl acetate	34		NAE.	
Non-noxious Liquid Substance, (12) n.o.s. Cat OS	0	1	NOL.	
Nonyl alcohol (all isomers)	20	2	NNS	ALR/DBC/NNI/NNN.
Nonylbenzene, see Alkyl(C9+)benzenes	32			AKB.
Nonyl methacrylate monomer	14		NMA.	
Nonyl phenol	21		NNP.	
Nonylphenol (48–62%)/Phenol (42–48%)/Dinonylphenol (1–10%) mixture.	21		NYL.	
Nonyl phenol poly(4+)ethoxylate, see Alkyl (C7-C11) phenol poly (4–12) ethoxylate.	40		NPE	APN.
Nonyl phenol sulfide (90% or less) solution, see Alkyl phenol sulfide (C8-C40).	34			AKS (NPS).
Noxious Liquid Substance, n.o.s. (NLS')	0	1	.	
1-Octadecanol, see Stearyl alcohol	20			SYL (ALY/ASY).
1-Octadecene, see the olefin or alpha-olefin entries	30			OAM/OFZ.
Octadecenoamide solution	10		ODD.	
Octadecenol, see Alcohols (C13+)	20			ALY (AYL/ASY/OYL).
Octamethylcyclotetrasiloxane *	34	3	OSA.	
Octane (all isomers), see Alkanes (C6-C9)	31		OAX	ALK (IOO/OAN).
Octanoic acid (all isomers)	4		OAY	EHO/OAA.
Octanol (all isomers)	20	2	OCX	EHX/OPA/OTA.
Octene (all isomers)	30	2	OTX	OAM/OFC/OFY/OFW/OTE.
n-Octyl acetate	34		OAF	OAE.
Octyl alcohol, see Octanol (all isomers)	20	2		OCX (EHX/IOA/OTA).
Octyl aldehydes	19		OAL	EHA/IOC//OLX.
Octylbenzenes, see Alkyl (C3-C4) benzenes	32			AKD.
Octyl decyl adipate	34		ODA.	
n-Octyl Mercaptan	34		OME.	
Octyl nitrates (all isomers), see Alkyl(C7-C9) nitrates	34	2	ONE	AKN.
Octyl phenol	21		OPH.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Octyl phthalate, see Dialkyl (C7-C13) phthalates	34			DAH (DIE/DIO/DLK/DOP).
Oil, edible:				
Beechnut	34		OBN	VEO.
Castor	34		OCA	VEO.
Cocoa butter	34		OCB	VEO.
Coconut	34	2	OCC	VEO.
Cod liver	34		OCL	AFN.
Corn	34		OCO	VEO.
Cotton seed	34		OCS	VEO.
Fish	34	2	OFS	AFN.
Groundnut	34		OGN	VEO.
Hazelnut	34		OHN	VEO.
Illipe	34		ILO	VEO.
Lard	34		OLD	AFN.
Maize, see Oil, edible: Corn	34			OCO (VEO).
Mango kernel *	34	3	MKO	
Nutmeg butter	34		ONB	VEO.
Olive	34		OOL	VEO.
Palm	34	2	OPM	VEO.
Palm kernel	34		OPO	VEO.
Palm kernel olein	34		PKO	VEO.
Palm kernel stearin	34		PKS	VEO.
Palm mid fraction	34		PFM	VEO.
Palm olein	34		PON	VEO.
Palm stearin	34		PMS	VEO.
Peanut	34		OPN	VEO.
Poppy	34		OPY	VEO.
Poppy seed	34		OPS	VEO.
Raisin seed	34		ORA	VEO.
Rapeseed (low erucic acid containing less than 4% free fatty acids).	34		ORO	ORP/VEO.
Rice bran	34		ORB	VEO.
Safflower	34		OSF	VEO.
Salad	34		OSL	VEO.
Sesame	34		OSS	VEO.
Shea butter	34		OSH	VEO.
Soya bean	34		OSB	VEO.
Sunflower, see Oil, edible Sunflower seed	34			OSN (VEO).
Sunflower seed	34		OSN	VEO.
Tucum	34		OTC	VEO.
Vegetable	34		OVG	VEO.
Walnut	34		OWN	VEO.
Oil, fuel:				
No. 1	33		OON.	
No. 1–D	33		OOD.	
No. 2	33		OTW.	
No. 2–D	33		OTD.	
No. 4	33		OFR.	
No. 5	33		OFV.	
No. 6	33		OSX.	
Oil, misc:				
Acid mixture from soybean, corn (maize) and sunflower oil refining.	34		AOM.	
Aliphatic	33		OML.	
Animal	34		OMA	AFN.
Aromatic	33		OMR.	
Camelina	34		OCI.	
Cashew nut shell (untreated)	4		OCN.	
Clarified	33		OCF.	
Coal	33		OMC.	
Coconut fatty acid	34	2	CFA.	
Coconut oil, fatty acid methyl ester	34		OCM.	
Cotton seed oil, fatty acid	34		CFY.	
Crude	33		OFA.	
Diesel	33		ODS.	
Disulfide	0	1	ODI.	
Gas, cracked	33		GOC.	
Gas, high pour	33		OGP.	
Gas, low pour	33		OGL.	
Gas, low sulfur	33		OGS.	
Heartcut distillate	33		OHD.	
Jatropha	34		JTO.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Lanolin	34		OLL	AFN.
Linseed	33		OLS.	
Lubricating	33		OLB.	
Mineral	33		OMN.	
Mineral seal	33		OMS.	
Motor	33		OMT.	
Neatsfoot	33		ONF	AFN.
Oiticica	34		OOI.	
Palm acid	34		PLM.	
Palm fatty acid distillate	34		PFD.	
Palm oil fatty acid methyl ester	34		OPE.	
Palm kernel acid	34		OPK.	
Palm kernel fatty acid distillate	34		PNG.	
Palm, non-edible industrial grade	34		OPB.	
Penetrating	33		OPT.	
Perilla	34		OPR.	
Pilchard	34		OPL	AFN.
Pine	33		OPI	PNL.
Rape seed fatty acid methyl esters *	34	3	ORP.	
Residual	33		ORL.	
Resin, distilled	34		ORR.	
Road	33		ORD.	
Rosin	33		ORN.	
Seal	34		OSE.	
Soapstock	34		OIS.	
Soyabean (epoxidized)	34		OSC.	
Soyabean fatty acid methyl ester	34			OST.
Spindle	33		OSD.	
Tall	34		OTL	OTI/OTJ.
Tall, crude	34	2	OTI	OTJ/OTL.
Tall, distilled	34	2	OTJ	OTI/OTL.
Tall, fatty acid	34	2	OTT.	
Tall fatty acid (resin acids less than 20%)	34	2	OTK	OTT.
Tall pitch	34		OTP.	
Transformer	33		OTF.	
Tung	34		OTG.	
Turbine	33		OTB.	
Vacuum gas oil	32		OVC.	
Oleamide solution, see Octadecenoamide solution	10			ODD.
Olefin-Alkyl ester copolymer (molecular weight 2000+)	34		OCP.	
Olefin mixture (C7-C9) C8 rich, stabilized *	30	3	OFC	OFW/OFY/OFX.
Olefin mixtures (C5-C7) *	30	3	OFX	OAM/OFC/OFW/OFX/OFZ.
Olefin mixtures (C5-C15) *	30	3	OFY	OAM/OFC/OFW/OFX/OFZ.
Olefins (C13+, all isomers)	30		OFZ	OAM/OFW.
alpha-Olefins (C6-C18) mixtures	30		OAM	OFC/OFW/OFX/OFY/OFZ.
Oleic acid	34		OLA.	
Oleum	0	1, 2	OLM	SAC/SFX.
Oleyl alcohol, see Alcohols (C13+)	20		OYL	ALY (ASY).
Oleylamine	7		OLY.	
Olive oil, see Oil, edible: Olive	34			OOL (VEO).
Orange juice (concentrated) *	0	1, 3	OJC	OJN.
Orange juice (not concentrated) *	0	1, 3	OJN	OJC.
Organomolybdenum amide	10		OGA.	
ORIMULSION, see Asphalt emulsion	33			ASQ.
Oxyalkylated alkyl phenol formaldehyde	33		OPF.	
Oxygenated aliphatic hydrocarbon mixture *	0	1, 3	OAH.	
Palm acid oil, see Oil, misc: Palm acid *	34	3		PLM.
Palm fatty acid distillate, see Oil, misc: Palm fatty acid distillate *	34	3		PFD.
Palm kernel acid oil, see Oil, misc: Palm kernel acid	34			PNO.
Palm kernel acid oil, methyl ester, see Oil, misc: Palm kernel acid, methyl ester.	34			PNF.
Palm kernel oil fatty acid distillate, see Oil, misc: Palm kernel fatty acid distillate.	34			PNG.
Palm kernel oil, see Oil, edible: Palm kernel	34			OPO (VEO).
Palm kernel olein, see Oil, edible: Palm kernel olein *	34	3		PKO (VEO).
Palm kernel stearin, see Oil, edible: Palm kernel stearin *	34	3		PKS (VEO).
Palm mid fraction, see Oil, edible: Palm mid fraction *	34	3		PFM (VEO).
Palm oil, see Oil, edible: Palm *	34	3		OPM (VEO).
Palm oil fatty acid methyl ester, see Oil, misc: Palm fatty acid methyl ester *.	34	3		OPE.
Palm olein, see Oil, edible: Palm Olein *	34	3		PON (VEO).
Palm stearin, see Oil, edible: Palm stearin	34			PMS (VEO).

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Parachlorobenzotrifluoride	32		PBF	
n-Paraffins (C10-C20), see n-Alkanes (C10+)	31		PFN	ALJ.
Paraffin wax, see Waxes: Paraffin *	31	3		WPF.
Paraldehyde	19		PDH.	
Paraldehyde-Ammonia reaction product	9		PRB.	
Pentachloroethane	36		PCE.	
Pentadecanol, see Alcohols (C13+)	20		PDC	ALY.
1,3-Pentadiene	30		PDE	PDN.
1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures *.	30	3	PMM.	
Pentaethylene glycol, see Polyethylene glycols	20			PEG.
Pentaethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.	40			PAG.
Pentaethylenehexamine	7		PEN	
Pentaethylenehexamine/Tetraethylenepentamine mixture	7		PEP.	
Pentane (all isomers)	31		PTY	IPT/PTA.
Pentanoic acid	4		POC..	
n-Pentanoic acid (64%)/2-Methyl butryic acid (36%) mixture	4		POJ	POC.
Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.	43			DYS.
Pentene (all isomers)	30		PTX	PTE.
n-Pentyl propionate	34		PPE.	
Perchloroethylene	36	2	PER	TTE.
Petrolatum	33		PTL.	
Phenol	21	2	PHN	PNS.
Phenol solutions (2% or less)	43		PNS	PHN.
1-Phenyl-1-xylyl ethane	32		PXE.	
Phosphate esters	34		PZE.	
Phosphate esters, alkyl (C12-C14) amine	7		PEA.	
Phosphoric acid	1		PAC.	
Phosphorus, yellow or white	0	1	PPW	PPB/PPR.
Phosphosulfurized bicycle terpene	0	1	PBT.	
Phthalate based polyester polyol	0	1, 2	PBE.	
Phthalic anhydride (molten)	11		PAN.	
alpha-Pinene	30		PIO	PIB/PIN.
beta-Pinene	30		PIP	PIN/PIO.
Pine oil, see Oil, misc: Pine	33		PNL	OPI.
Piperazine (crude)	34		PZC	PPZ/PIZ.
Piperazine (70% or less)	30		PIZ	PPB/PPZ.
Piperylene concentrate	30		PIC	PDE/PDN.
Polyacrylic acid solution (40% or less)	43		PYA.	
Polyalkenyl succinic anhydride amine	7		PSN.	
Polyalkyl acrylate	14		PAY.	
Polyalky (C18-C22) acrylate in Xylene	14		PIX.	
Polyalkyl alkenamine succinimide, molybdenum oxysulfide	7		PSO.	
Polyalkylene glycols/Polyalkylene glycol monoalkyl ether mixtures.	40		PPX.	
Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		PGB	PAG.
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	40		PAG.	
Including:				
Diethylene glycol butyl ether.				
Diethylene glycol ethyl ether.				
Diethylene glycol n-hexyl ether.				
Diethylene glycol methyl ether.				
Diethylene glycol propyl ether.				
Dipropylene glycol butyl ether.				
Dipropylene glycol methyl ether.				
Polyalkylene glycol butyl ether.				
Polyethylene glycol monoalkyl 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	34		PAF.	
Including:				
Diethylene glycol butyl ether acetate.				
Diethylene glycol ethyl ether acetate.				
Diethylene glycol methyl ether acetate.				

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures.	40		PPX.	
Polyalkylene oxide polyol	20		PAO.	
Polyalkyl (C10-C20) methacrylate	14		PMT	PYY.
Polyalkyl methacrylate in mineral oil	14		PYY	PMT.
Polyalkyl(C10-C18) methacrylate/Ethylene-Propylene copolymer mixture.	14		PEM.	
Polyalpha olefins	31		PYO.	
Polyaluminum chloride solution	1		PLS.	
Polybutadiene, hydroxyl terminated	20		PHT.	
Polybutene	33		PLB.	
Polybutenyl succinimide	10		PBS.	
Polycarboxylic ester (C9+), see Ditridecyl adipate	34			DTY.
Poly(2+)cyclic aromatics	32		PCA.	
Polydimethylsiloxane, see Dimethylpolysiloxane	34			DMP.
Polyether, borated	41		PED.	
Polyether (molecular weight 1350+)	41		PYR.	
Polyether polyols	41		PEO.	
Polyethylene glycol	40		PEG.	
Polyethylene glycol dimethyl ether	40		PEF.	
Poly (ethylene glycol) methylbutenyl ether (MW > 1000)	40		PBN.	
Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		PEE	PAG.
Polyethylene polyamines	7	2	PEB	PEY.
Polyethylene polyamines (more than 50% C5-C20 Paraffin oil) *	7	2,3	PEY	PEB.
Polyferric sulfate solution	34		PSS.	
Polyglycerine/Sodium salts solution (containing less than 3% Sodium hydroxide).	20	2	PGT	PGS.
Polyglycerol	20		PGL.	
Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less) *.	7	3	PIG	PIM.
Polyisobutenamine in aliphatic (C10-C14) solvent	7		PIB	PIA.
Polyisobutenyl anhydride adduct	11		PBA.	
Polyisobutenyl succinimide	10		PIS.	
Poly(4+)isobutylene	30		PIL.	
Polyisobutylene succinic anhydride	11		PYS.	
Polymerized esters	34		PYM.	
Polymethylene polyphenyl isocyanate	12		PPI.	
Polyolefin (molecular weight 300+)	31		PMW	PLF.
Polyolefin amide alkeneamine (C17+)	33		POH	POD.
Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkenamine (C17+).	33		POD	POH.
Polyolefin amide alkeneamine borate (C28-C250)	34		PAB.	
Polyolefin amide alkeneamine in mineral oil	33		PLK.	
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture	7		PMO.	
Polyolefin amide alkeneamine polyol	20		PAP.	
Polyolefinamine (C28-C250)	33		POM.	
Polyolefinamine in alkyl(C2-C4) benzenes	32		POF	POR.
Polyolefinamine in aromatic solvent *	32	3	POR	POF.
Polyolefin aminoester salts (molecular weight 2000+)	34		PAE.	
Polyolefin anhydride	11		PAR.	
Polyolefin ester (C28-C250)	34		POS.	
Polyolefin in mineral oil	30		PLF	PMW.
Polyolefin phenolic amine (C28-C250)	9		PPH.	
Polyolefin phosphorosulfide, barium derivative (C28-C250)	34		PPS.	
Poly (oxyalkylene) alkenyl ether (MW>1000)	41		PXY.	
Polyoxybutylene alcohol	41		PXA.	
Poly(20)oxyethylene sorbitan monooleate	34		PSM.	
Polyoxypropylenediamine (MW 2000)	7		PYD.	
Poly(5+)propylene	30		PLQ	PLP.
Polypropylene glycol	40		PGC.	
Polypropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.	40		PGM	PAG.
Polysiloxane	34		PSX.	
Polysiloxane/White spirit, low (15–20%) aromatic	34		PWS.	
Potassium chloride solution	43		PCU	PCD/PSD.
Potassium chloride solution (10% or more)	43		PCS	PCD/PCU.
Potassium chloride solution (less than 26%)	43		PSD	CLM/DRL/PCS/PCU.
Potassium formate solutions	34		PFR.	
Potassium hydroxide solution, *see* Caustic potash solution	5	2		CPS/PTH.
Potassium oleate	34		POE.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Potassium polysulfide/Potassium thiosulfide solution (41% or less).	0	1	PYP	PSF/PTF.
Potassium salt of polyolefin acid	34		PSP.	
Potassium thiosulfate (50% or less)	43		PTF.	
Propane	31		PRP	LPG.
iso-Propanolamine, see Isopropanolamine	8			MPA (PAX/PLA).
n-Propanolamine	8		PLA	MPA/PAX.
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution*.	0	1, 3	PLN.	
beta-Propiolactone*	18	3	PLT.	
Propionaldehyde	19		PAD.	
Propionic acid	4		PNA.	
Propionic anhydride	11		PAH.	
Propionitrile	37		PCN.	
n-Propoxypropanol, see Propylene glycol monoalkyl ether	40		PXP	PGE.
n-Propyl acetate	34		PAT	IAC.
n-Propyl alcohol	20	2	PAL	IPA.
n-Propylamine	7		PRA	IPO/IPP/IPQ.
iso-Propylamine solution, see Isopropylamine (70% or less) solution.	7			IPQ (IPO/IPP/PRA).
Propylbenzenes, see Alkyl (C3-C4) benzens	32		PBY	AKC (CUM/PBZ).
iso-Propyl cyclohexane, see Isopropylcyclohexane	34			IPX.
Propylene	30		PPL.	
Propylene-Butylene copolymer	30		PBP.	
Propylene carbonate	34		PLC.	
Propylene dimer	30		PDR.	
Propylene glycol	20	2	PPG.	
Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether.	40		PGD	PGE.
Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether.	40		PGY	PGE.
Propylene glycol methyl ether, see Propylene glycol monoalkyl ether.	40		PME	PGE.
Propylene glycol methyl ether acetate	34		PGN.	
Propylene glycol monoalkyl ether *Including:* *n-Propoxypropanol.* *Propylene glycol n-butyl ether.* *Propylene glycol ethyl ether.* *Propylene glycol methyl ether.* *Propylene glycol propyl ether.*	40		PGE.	
Propylene glycol phenyl ether	40		PGP.	
Propylene glycol propyl ether, see Propylene glycol monoalkyl ether.				PGE.
Propylene oxide	16		POX.	
Propylene tetramer	30		PTT.	
Propylene trimer	30		PTR.	
Pseudocumene, see Trimethylbenzene (all isomers)	32			TMB/TMD/TME/TRE.
Pyridine	9		PRD.	
Pyridine bases, see Paraldehyde-Ammonia reaction product	9			PRB.
Pyrolysis gasoline (containing Benzene)*	32	3	PYG	GPY.
Rapeseed oil, see Oil, edible: Rapeseed	34			ORO (VEO).
Rapeseed oil (low erucic acid containing less than 4% free fatty acids), see Oil, edible: Rapeseed, (low erucic acid containing less than 4% free fatty acids)*.	34	3		ORO (VEO).
Rapeseed oil fatty acid methyl esters, see Oil, misc: Rapeseed fatty acid methyl esters*.	34	3		RSO.
Refrigerant gases	0	1	RFG.	
Resin oil, distilled, see Oil, misc: Resin, distilled*	33	3		ORR (ORS).
Rice bran oil, see Oil, misc: Rice bran	34			ORB.
Rosin, see Oil, misc: Rosin	33			ORN.
ROUNDUP	7		RUP	GIO.
Rum, see Alcoholic beverages	20			ABV.
Safflower oil, see Oil, edible: Safflower	34			OSF (VEO)
Sewage sludge	43		SWS.	
Shea butter, see Oil, edible: Shea butter*	34	3		OSH (VEO).
Silica slurry	43		SLC.	
Siloxanes	34		SLX.	
Sludge, treated	43		SWA.	
Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide).	34	2	SAW	SAO/SAP/SAQ/SAY.

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide).	5		SAQ	SAO/SAP/SAW/SAY.
Sodium acetate, Glycol, Water mixture (1% or less Sodium hydroxide) (if non-flammable or non-combustible).	5	2	SAY	SAO/SAP/SAQ/SAY.
Sodium acetate solutions	34		SAN.	
Sodium alkyl (C14-C17) sulfonates (60–65% solution)	34		SSA	AKA/AKE/SSU.
Sodium aluminate solution	5		SAV	SAU.
Sodium aluminate solution (45% or less)	5		SAU	SAV.
Sodium aluminosilicate slurry	34		SLR.	
Sodium benzoate solution	34		SBN	SBM.
Sodium bicarbonate solution (less than 10%)	34		SBC.	
Sodium borohydride (15% or less)/Sodium hydroxide solution	5		SBX	CSS/SBH/SBI/SHD.
Sodium bromide solution (less than 50%) *	43	3	SBL	SBR.
Sodium carbonate solution	5		SCE.	
Sodium chlorate solution (50% or less)	0	1, 2	SDD	SDC.
Sodium cyanide solution	5		SCO	SCN/SCS.
Sodium dichromate solution (70% or less)	0	1, 2	SDL	SCR.
Sodium hydrogen sulfide (6% or less)/Sodium carbonate (3% or less) solution.	0	1, 2	SSS	SCE/SHW.
Sodium hydrogen sulfite solution (45% or less)	43		SHY	SHX.
Sodium hydrosulfide/Ammonium sulfide solution	5	2	SSA	ASF/ASS.
Sodium hydrosulfide solution (45% or less)	5	2	SHR.	
Sodium hydroxide solution, see Caustic soda solution	5	2		CSS (SHD).
Sodium hypochlorite solution (15% or less)	5		SHP	SHC/SHQ.
Sodium hypochlorite solution (20% or less)	5		SHQ	SHC/SHP.
Sodium lignosulfonate solution	43		SLG	LNL.
Sodium long-chain alkyl salicylate (C13+)	34		SLS.	
Sodium-2-mercaptobenzothiazol solution, see Mercaptobenzothiazol, sodium salt solution.	5			SMB.
Sodium methoxide (25% in methanol)	5		SMO.	
Sodium methylate 21–30% in methanol *	20	3	SMT	SMS.
Sodium naphthalene sulfonate solution, see Naphthalene sulfonic acid (40% or less), sodium salt solution (40% or less).	34		SNS	NSA (NSB).
Sodium naphthenate solution, see Naphthenic acid, sodium salt solution.	34			NTS.
Sodium nitrite solution	5		SNI	SNT.
Sodium petroleum sulfonate	34		SPS.	
Sodium polyacrylate solution	43		SOO	SOP.
Sodium poly(4+)acrylate solution	43	2	SOP	SOO.
Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.	34		STA	FHX.
Sodium silicate solution	43	2	SSN	SSC.
Sodium sulfate solution *	34	3	SST	SSO.
Sodium sulfide/Hydrosulfide solution (H_2S 15 ppm or less)	0	1, 2	SSH	SDS/SHR/SSI/SSJ.
Sodium sulfide/Hydrosulfide solution (H_2S greater than 15 ppm but less than 200 ppm).	0	1, 2	SSI	SDS/SHR/SSH/SSJ.
Sodium sulfide/Hydrosulfide solution (H_2S greater than 200 ppm).	0	1, 2	SSJ	SDS/SHR/SSH/SSI.
Sodium sulfide solution (15% or less)	43		SDR	SDS.
Sodium sulfite solution (25% or less)	43		SUP	SSF/SUS.
Sodium thiocyanate solution (56% or less)	0	1, 2	STS	SCY.
Sorbitol solution	20		SBU	SBT.
Soyabean fatty acid methyl ester, see Oil, misc: Soyabean fatty acid methyl ester.	34			OST.
Soyabean oil, see Oil, edible: Soyabean	34			OSB (VEO).
Stearic acid, see Fatty acids (saturated, C14+)	34		SRA	FAD (FAB/FAE/FDI/FDT).
Stearyl alcohol	20		SYL	ALY/ASY.
Stoddard solvent, see Naphtha: Stoddard solvent	33			NSS.
Styrene monomer	30		STY.	
Sulfohydrocarbon (C3-C88)	33		SFO.	
Sulfohydrocarbon, long-chain (C18+) alkylamine mixture	7		SFX.	
Sulfolane	39		SFL.	
Sulfonated polyacrylate solutions	43	2	SPA.	
Sulfur (molten)	0	1, 2	SXX.	
Sulfur dioxide	0	1	SFD.	
Sulfuric acid	2	2	SFA	SAC.
Sulfuric acid, spent	2	2	SAC	SFA.
Sulfurized fat (C14-C20)	33		SFT.	
Sulfurized polyolefinamide	7		SPY.	
Sulfurized polyolefinamide alkene(C28-C250) amine	7		SPO.	
Sunflower seed oil, see Oil, edible: Sunflower seed	34			OSN (VEO).

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Tall oil, see Oil, misc: Tall	34			OTL (OTI/OTJ).
Tall oil, crude, see Oil, misc: Tall, crude *	34	2, 3		OTI (OTJ/OTL).
Tall oil, distilled, see Oil, misc: Tall, distilled *	34	3		OTJ (OTI/OTL).
Tall oil, fatty acid, see Oil, misc: Tall fatty acid	34			OTT.
Tall oil fatty acid (resin acids less than 20%), see Oil, misc: Tall oil fatty acid (resin less than 20%).	34	2		OTK (OTT).
Tall oil soap (crude)	4		TOR	TOS.
Tall oil, pitch, see Oil, misc: Tall pitch *	34	3		OTP (OTI/OTJ/OTL).
Tallow	34	2	TLO.	
Tallow alcohol, see Alcohols (C13+)	20	2	TFA	ALY (ASY).
Tallow alkyl nitrile	37		TAN.	
Tallow fatty acid	34	2	TFD.	
Tallow fatty alcohol, see Alcohols (C13+)	20		TFA	ALY.
TAME, see tert-Amyl methyl ether	40			AYE.
Tertiary butyl phenols	21		BLT	BTP.
1,1,2,2-Tetrachloroethane	36		TEC	TEE.
Tetradecanol, see Alcohols (C13+)	20		TTN	ALY.
Tetradecene, see the olefins or alpha-olefin entries	30			OAM/OFY/OFW/OFZ/TDD.
Tetradecylbenzene, see Alkyl(C9+) benzenes	32		TDB	AKB.
Tetraethylene glycol	40		TTG.	
Tetraethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40			PAG.
Tetraethylene pentamine	7	2	TTP.	
Tetraethyl silicate monomer/oligomer (20% in ethanol) *	0	1, 3	TSM.	
Tetrahydrofuran	41		THF.	
Tetrahydronaphthalene	32		THN.	
Tetramethylbenzene (all isomers)	32		TTC	TTB.
Tetrapropylbenzene, see Alkyl(C9+)benzenes	32			AKB.
Tetrasodium salt of ethylenediaminetetraacetic acid solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution.	43.			EDS.
Titanium dioxide slurry	43		TDS.	
Titanium tetrachloride	2		TTT.	
Toluene	32		TOL.	
Toluenediamine	9		TDA.	
Toluene diisocyanate	12		TDJ	TDI/TDJ.
o-Toluidine	9		TLI	TOD/TOI.
Triarylphosphate, see Triisopropylated phenyl phosphates	34		TRA	TPL.
Tributyl phosphate	34		TBP.	
1,2,3-Trichlorobenzene (molten) *	36	3	TBZ	TCB.
1,2,4-Trichlorobenzene	36		TCB	TBZ.
1,1,1-Trichloroethane	36	2	TCE	TCM.
1,1,2-Trichloroethane	36		TCM	TCE.
Trichloroethylene	36	2	TCL.	
1,2,3-Trichloropropane	36	2	TCN.	
1,1,2-Trichloro-1,2,2-trifluoroethane	36		TTF.	
Tricresyl phosphate (containing 1% or more ortho-isomer) *	34	3	TCO	TCP/TCQ.
Tricresyl phosphate (containing less than 1% ortho-isomer) *	34	3	TCP	TCO/TCQ.
Tridecane (all isomers), see Alkanes (C10+) (all isomers)	31		TRD	ALV (ALJ).
Tridecanoic acid	34		TDO.	
Tridecanol, see Alcohols (C13+)	20		TDN	ALY (ASK/ASY/AYK/LAL).
Tridecene, see Olefins (C13+)	30		TRD	OAM/OFY/OFW/OFZ/TDC.
Tridecyl acetate	34		TAE.	
Tridecylbenzene, see Alkyl(C9+) benzenes	32		TRB	AKB.
Triethanolamine	8	2	TEA.	
Triethylamine	7		TEN.	
Triethylbenzene	32		TEB.	
Triethylene glycol	40		TEG.	
Triethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.	40		TBE	PAG.
Triethylene glycol butyl ether mixture	40		TBD.	
Triethylene glycol di-(2-ethylbutyrate)	34		TGD.	
Triethylene glycol ether mixture	40		TYM.	
Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		TGE	PAG.
Triethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		TGY	PAG.
Triethylenetetramine	7	2	TET.	
Triethyl phosphate	34		TPS.	
Triethyl phosphite	34	2	TPI.	
Triisobutylene	30		TIB.	
Triisooctyl trimellitate	34		TIS.	
Triisopropanolamine	8		TIP.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution.	43			DTI.
Triisopropylated phenyl phosphates	34		TPL.	
Trimethylacetic acid	4		TAA.	
Trimethylamine solution (30% or less)	7		TMT	TMA.
Trimethylbenzene (all isomers)	32		TRE	TMB/TMD/TME.
Trimethyl nonanol, see Dodecanol	20			DDN (ASK/ASY/LAL).
Trimethylol propane polyethoxylated	40		TPR.	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	34		TMQ.	
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	34		TMP.	
2,2,4-Trimethyl-3-pentanol-1-isobutyrate	34		TMR.	
1,3,5-Trioxane	41	2	TRO.	
Triphenylborane (10% or less)/Caustic soda solution	5		TPB.	
Tripropylene, see Propylene trimer	30			PTR.
Tripropylene glycol	40		TGC.	
Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.	40		TGM	PAG.
Trisodium nitrilotriacetate solution, see Nitrilotriacetic acid, trisodium salt solution.	34		TSO	NCA (TSN).
Trisodium phosphate solution	5		TSP.	
Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution.	43			HET.
Trixylenyl phosphate, see Trixylyl phosphate	34			TRP.
Trixylyl phosphate	34			TRP.
Tung oil, see Oil, misc: Tung	34			OTG
Turpentine	30		TPT.	
Turpentine substitute, see White spirit (low (15–20%) aromatic)	33			WSL (WSP).
Ucarsol CR Solvent 302 SG	8		UCS.	
Undecane (all isomers), see Alkanes (C10+) (all isomers)	31		UDN	ALV (ALJ).
Undecanoic acid	4		UDA.	
Undecanol, see Undecyl alcohol	20			UND (ALR).
Undecene	30		UDD	UDC.
1-Undecene	30		UDC	UDD.
Undecyl alcohol	20		UND	ALR.
Undecylbenzene, see Alkyl(C9+) benzenes			UDB	AKB.
Urea, Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution.	0	1	UPX.	
Urea/Ammonium nitrate solution *	34	3	UAV	ANU/UAS/UAT/UAU.
Urea/Ammonium nitrate solution (containing less than 1% free Ammonia).	43		UAU	ANU/UAS/UAT/UAV.
Urea/Ammonium nitrate solution (containing less than 2% free Ammonia).	6		UAT	ANU/UAS/UAU/UAV.
Urea/Ammonium phosphate solution	43		UAP.	
Urea solution	43		USL	URE.
Valeraldehyde (all isomers)	19		VAK	IVA/VAL.
Vanillin black liquor (free alkali content 3% or more)	5		VBL.	
Vegetable oils, n.o.s	34		VEO.	
Including:				
Beechnut oil.				
Camelina oil.				
Cashew nut shell.				
Castor oil.				
Cocoa butter.				
Coconut oil.				
Corn oil.				
Cottonseed oil.				
Croton oil.				
Groundnut oil.				
Hazelnut oil.				
Illipe oil.				
Jatropha oil.				
Linseed oil.				
Mango kernel oil.				
Nutmeg butter.				
Oiticica oil.				
Olive oil.				
Palm kernel oil.				
Palm kernel olein.				
Palm kernel stearin.				
Palm mid fraction.				

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Palm, non-edible industrial grade.				
Palm oil.				
Palm olein.				
Palm stearin.				
Peanut oil.				
Peel oil (oranges and lemons).				
Perilla oil.				
Pine oil.				
Poppy seed oil.				
Poppy oil.				
Raisin seed oil.				
Rapeseed oil.				
Rapeseed (low erucic acid containing less than 4% free fatty acids).				
Resin, distilled.				
Resin oil.				
Rice bran oil.				
Rosin oil.				
Safflower oil.				
Salad oil.				
Sesame oil.				
Shea butter.				
Soyabean oil.				
Sunflower seed oil.				
Tall.				
Tall, crude.				
Tall, distilled.				
Tall, pitch.				
Tucum oil.				
Tung oil.				
Walnut oil.				
Vegetable acid oils, n.o.s.	34		VAD.	
Including:				
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.				
Vegetable fatty acid distillates*	34	3	VFD.	
Including:				
Palm kernel fatty acid distillate.				
Palm oil fatty acid distillate.				
Tall fatty acid distillate.				
Tall oil fatty acid distillate.				
Vegetable protein solution (hydrolyzed)	43		VPS.	
Vinyl acetate	13	2	VAM.	
Vinyl chloride	35		VCM.	
Vinyl ethyl ether	13		VEE.	
Vinylidene chloride	35		VCI.	
Vinyl neodecanoate	13	2	VND.	
Vinyltoluene	13		VNT.	
Water	43		WTR.	
Waxes			WAX.	
Candelilla	34		WCD.	
Carnauba	34		WCA.	
Paraffin	31		WPF.	
Petroleum	33		WPT.	
White spirit, see White spirit (low (15–20%) aromatic)	33		WSP	WSL.
White spirit (low (15–20%) aromatic)	33		WSL	WSP.
Wine, see Alcoholic beverages	20		ABV.	
Wood lignin with Sodium acetate/oxalate*	0	1, 3	WOL.	
Xylenes	32		XLX	XLM/XLO/XLP.
Xylenes/Ethylbenzene (10% or more) mixture	32		XEB.	
Xylenol	21		XYL.	
Zinc alkaryl dithiophosphate (C7-C16)	34		ZAD.	

TABLE I TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS Codes
Zinc alkenyl carboxamide	10		ZAA.	
Zinc alkyl dithiophosphate (C3-C14)	34		ZAP.	
Zinc bromide/Calcium bromide solution, see Drilling brine (containing Zinc salts).	43			DZB.

Notes:
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 Figure 1 to 46 CFR part 150 (Compatibility Chart).
2. See Appendix I to 46 CFR part 150 (Exceptions to the Chart).
3. "*" From the March 2012 Annex to the 2007 edition of the IBC Code.
4. *Italicized* words are not part of the cargo name but may be used in addition to the cargo name.

■ 5. Revise Table II to Part 150 to read as follows:

TABLE II TO PART 150—GROUPING OF CARGOES

Group	Cargo
0. Unassigned	Acetone cyanohydrin [1 2] Alkenoic acid, polyhydroxy ester borated [1] Alkyl (C8-C10)/(C12-C14) : (60% or more/40% or less) Alkyl (C18-C28) toluenesulfonic acid [1] Alkyl (C11-C17) benzene sulfonic acid polyglucoside solution (55% or less) [1] Alkylbenzenesulfonic acid [1 2] Alkyl benzene distillation bottoms [1] Aluminium chloride, Hydrochloric acid solution [1] Aluminum chloride/Hydrogen chloride solution [1] Ammonium hydrogen phosphate solution [1] Ammonium nitrate solution [1] Ammonium thiocyanate, Ammonium thiosulfate solution [1] Benzenesulfonyl chloride [1 2] gamma-Butyrolactone [1 2] Chlorine [1] Chlorosulfonic acid [1] Decyloxytetrahydro-thiophene dioxide [1] tert-Dodecanethiol [1] 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less) [1 2] Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution [1 2] Dimethyl disulfide [1] Diphenylol propane-Epichlorohydrin resins [1] Dodecylbenzenesulfonic acid [1 2] Dodecyl hydroxypropyl sulfide [1 2] Ethylene oxide [1] Hydrogen peroxide solutions [1] Hydrogenated starch hydrolysate [1] Lactic acid [1 2] Ligninsulfonic acid, sodium salt solution [1] Liquid chemical wastes [1] Long chain alkaryl sulfonic acid (C16-C60) [1 2] Magnesium chloride solution [1 2] Malitol solution [1] Methyl cyclopentadienyl manganese tricarbonyl [1] Methyl cyclopentadienyl manganese tricarbonyl (60–70%) in mineral oil [1] Molybdenum polysulfide long chain alkyl dithiocarbamide complex [1] Molasses residue [1] Motor fuel antiknock compounds containing Lead alkyls [1] Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution [1] NIAX POLYOL APP 240C [1 2] Nitrating acid [1] Nitric acid (greater than 70%) [1] o-Nitrophenol [1 2] Noxious Liquid Substance, n.o.s. (NLS's) [1] Oleum [1 2] Orange juice (concentrated) [1] Orange juice (not concentrated) [1] Oxygenated aliphatic hydrocarbon mixture [1] Phosphorus [1] Phthalate based polyester polyol [1 2] Potassium polysulfide, Potassium thiosulfide solution (41% or less) [1] 2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution [1]

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	SAP 7001 [1]
	Sodium chlorate solution [1 2]
	Sodium dichromate solution [1 2]
	Sodium hydrogen sulfide, Sodium carbonate solution [1 2]
	Sodium sulfide, Hydrosulfide solution [1 2]
	Sodium thiocyanate solution [1 2]
	Sulfur [1]
	Tall oil fatty acid, barium salt [1 2]
	Tetraethyl silicate monomer/oligomer (20% in ethanol) [1]
	Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution [1]
	Wood lignin with Sodium acetate/oxalate [1]
1. Non-Oxidizing Mineral Acids	Di-(2-ethylhexyl)phosphoric acid
	Ferric chloride solution
	Fluorosilicic acid (20–30%) in water solution
	Fluorosilicic acid (30% or less)
	Hydrochloric acid
	Phosphoric acid
	Polyaluminum chloride solution
2. Sulfuric Acids	Sulfuric acid [2]
	Sulfuric acid, spent
	Titanium tetrachloride
3. Nitric Acids	Ferric nitrate, Nitric acid solution
	Nitric acid (70% or less)
	Nitric acid (70% and over)
4. Organic Acids	Acetic acid [2]
	Acid oil mixture from soya bean, corn (maize) and sunflower oil refining
	Acrylic acid [2]
	Butyric acid
	i-Butyric acid
	Cashew nut shell oil (untreated)
	Citric acid (70% or less)
	Chloroacetic acid solution
	Chloroacetic acid (80% or less)
	Chloropropionic acid
	Decanoic acid
	2,2-Dichloropropionic acid
	2,2-Dimethyloctanoic acid
	2-Ethylhexanoic acid
	Fatty acids, (C8-C10)
	Fatty acids, (C12+)
	Fatty acids, (C16+)
	Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester
	Fatty acid methyl esters
	Formic acid [2]
	Formic acid (over 85%) [2]
	Formic acid mixture (containing up to 18% Propionic acid and up to 25% Sodium formate) [2]
	Glycolic acid
	Glyoxylic acid
	n-Heptanoic acid
	1,6-Hexanediol distillation overheads
	Hexanoic acid
	2-Hydroxy-4-(methylthio)butanoic acid
	Jatropha oil
	Long chain alkyl (C13+) salicylic acid
	Metal fatty acid salt
	Metal long chain alkyl salt
	Methacrylic acid
	Microsilica slurry
	Naphthenic acid
	Neodecanoic acid
	Nonanoic acid
	Nonanoic, Tridecanoic acid mixture
	Octanoic acid (all isomers)
	n-Pentanoic acid, 2-Methyl butryic acid mixture
	Pentanoic acid
	Propionic acid
	Trimethylacetic acid
	Undecanoic acid
5. Caustics	Ammonium sulfide solution (45% or less)
	Calcium hypochlorite solutions
	Calcium hypochlorite solution (15% or less)
	Calcium hypochlorite solution (more than 15%)

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Caustic potash solution [2]
	Caustic soda solution [2]
	Cresylate spent caustic
	Cresylic acid, sodium salt solution
	Kraft black liquor
	Kraft pulping liquors
	Mercaptobenzothiazol, sodium salt solution
	Potassium hydroxide solution [2]
	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 [2]
	Sodium hydrosulfide, Ammonium sulfide solution [2]
	Sodium hydroxide solution [2]
	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	Alkenylamine mixtures
	Alkyl (greater than C8) amine, Alkenyl (greater than C12) acid ester in mineral oil
	Alkyl amine (C17 or greater)
	Alkyl (C12+) dimethylamine
	N-Aminoethylpiperazine
	Butylamine (all isomers)
	Calcium long chain alkyl phenolic amine (C8-C40)
	Crude piperazine
	Cyclohexylamine
	Dibutylamine
	Diethylamine
	Diethylenetriamine [2]
	Diisobutylamine
	Diisopropylamine
	Dimethylamine
	Dimethylamine solution (45% or less)
	Dimethylamine solution (greater than 45% but not greater than 55%)
	Dimethylamine solution (greater than 55% but not greater than 65%)
	N,N-Dimethylcyclohexylamine
	N,N-Dimethyldodecylamine
	Di-n-propylamine
	Diphenylamine, reaction product with 2,2,4-Trimethylpentene
	Diphenylamines, alkylated
	Dodecylamine, Tetradecylamine mixture [2]
	Dodecyldimethylamine, Tetradecyldimethylamine mixture
	Ethoxylated tallow alkyl amine
	Ethoxylated tallow amine (>95%)
	Ethoxylated tallow alkyl amine, glycol mixture
	Ethylamine [2]
	Ethylamine solution (72% or less)
	Ethyleneamine EA 1302 [2]
	N-Ethyl-n-butylamine
	N-Ethyl cyclohexylamine
	Ethylenediamine [2]
	2-Ethyl hexylamine
	N-Ethylmethylallylamine
	Glyphosate solution (not containing surfactant)
	Hexamethylenediamine
	Hexamethylenediamine (molten)
	Hexamethylenediamine solution
	Hexamethylenetetramine
	Hexamethylenetetramine solutions
	Hexamethylenimine
	HiTec 321

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	bis-(Hydrogenated tallow alkyl)methyl amines
	Isophorone diamine
	Isopropylamine
	Isopropylamine (70% or less) solution
	Long chain alkyl amine
	Long chain polyetheramine in alkyl(C2-C4)benzenes
	Metam sodium solution
	Methylamine solutions (42% or less)
	Morpholine [2]
	Oleylamine
	Pentaethylenehexamine
	Pentaethylenehexamine, Tetraethylenepentamine mixture
	Phosphate esters, alkyl (C12-C14) amine
	Polyalkenyl succinic anhydride amine
	Polyalkyl alkeneamine succinimide, molybdenum oxysulfide
	Polyethylene polyamines [2]
	Polyethylene polyamines (more than 50% C5-C20 paraffin oil)
	Poly(iminoethylene)-graft-N-poly (ethyleneoxy) solution (90% or less)
	Polyisobutenamine in aliphatic (C10-C14) solvent
	Polyolefin amide alkeneamine (C28+)
	Polyolefin amide alkeneamine polyol
	Poly olefin amine
	Poly (C17+) olefin amine
	Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture
	Polyoxypropylenediamine (MW 2000)
	Propanil, Mesityl oxide, Isophorone mixture
	Propylamine
	iso-Propylamine solution
	Roundup
	Sulfohydrocarbon, long chain (C18+) alkylamine mixture
	Tetraethylenepentamine [2]
	Triethylamine
	Triethylenetetramine [2]
	Trimethylamine solution
	Trimethylhexamethylene diamine (2,2,4- and 2,4,4-)
8. Alkanolamines	Alkyl (C12-C16) propoxyamine ethoxylate
	2-(2-Aminoethoxy)ethanol
	Aminoethyldiethanolamine, Aminoethylethanolamine solution
	Aminoethylethanolamine
	2-Amino-2-methyl-1-propanol
	Diethanolamine
	Diethylaminoethanol
	Diethylethanolamine
	Diisopropanolamine
	Dimethylethanolamine
	Ethanolamine
	Ethoxylated alkyloxy alkyl amine
	Ethoxylated long chain (C16+) alkyloxyalkanamine
	Isopropanolamine
	Isopropanolamine solution
	N,N-bis (2-Hydroxyethyl) oleamide
	Linear alkyl (C12-C16) propoxyamine ethoxylate
	Methyl diethanolamine
	Propanolamine
	Triethanolamine [2]
	Triisopropanolamine
	Ucarsol CR Solvent 302 SG
9. Aromatic Amines	Alkyl (C8-C9) phenylamine in aromatic solvents
	Amine C-6, morpholine process residue
	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
	Diphenylamine (molten)
	Diphenylamine, reaction product with 2,2,4-trimethylpentene
	Diphenylamines, alkylated
	2-Ethyl-6-methyl-N-(1′-methyl-2-methoxyethyl)aniline
	N-Methylaniline

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	2-Methyl-6-ethyl aniline
	2-Methyl-5-ethyl pyridine
	Methyl pyridine
	2-Methylpyridine
	3-Methylpyridine
	4-Methylpyridine
	N-Methyl-2-pyrrolidone [2]
	Paraldehyde-Ammonia reaction product
	Polyolefin phenolic amine (C28-C250)
	Pyridine
	Pyridine bases
	Toluenediamine
	p-Toluidine
10. Amides	Acetochlor
	Acrylamide solution (50% or less)
	Alkenyl(C11+)amide
	N,N-Dimethylacetamide
	N,N-Dimethylacetamide solution
	N,N-Dimethylacetamide solution (40% or less)
	Dimethylformamide
	Formamide
	N,N-bis(2-Hydroxyethyl) oleamide
	Octadecenoamide
	Organomolybdenum amide
	Polybutenyl succinimide
	Polyisobutenyl succinimide
	Zinc alkenyl carboxamide
11. Organic Anhydrides	Acetic anhydride
	Alkenylsuccinic anhydride
	Alkyl succinic anhydride
	Maleic anhydride
	Phthalate based polyester polyol
	Phthalic anhydride
	Polyisobutenyl anhydride adduct
	Polyisobutylene succinic anhydride
	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 Acetates	Vinyl acetate
	Vinyl ethyl ether
	Vinyl neodecanate
	Vinyl toluene
14. Acrylates	Butyl acrylate (all isomers)
	Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture
	Butyl methacrylate
	i-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 [2]
	Isobutyl methacrylate
	Methacrylic resin in Ethylene dichloride
	Methyl acrylate
	Methyl methacrylate
	Nonyl methacrylate
	Polyalkyl acrylate
	Polyalkyl(C18-C22) acrylate in Xylene
	Polyalkyl (C10-C18) methacrylate/Ethylene
	Polyalkyl methacrylate
	Polyalkyl methacrylate in mineral oil
	Polyalkyl (C10-C20) methacrylate

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Polyalkyl methacrylate solution (containing max 40% active material)
	Propylene copolymer mixture
	Roehm monomer 6615
15. Substituted Allyls	Acrylonitrile [2]
	Allyl alcohol [2]
	Allyl chloride
	1,3-Dichloropropene
	Dichloropropene
	Dichloropropene, Dichloropropane mixtures
	Methacrylonitrile
16. Alkylene Oxides	Butylene oxide
	Ethylene oxide, Propylene oxide mixtures
	Ethylene oxide/Propylene oxide mixture with an Ethylene oxide content not more than 30% by mass)
	Propylene oxide
17. Epichlorohydrins	Chlorohydrins (crude)
	Epichlorohydrin
18. Ketones	Acetone [2]
	Acetophenone
	Amyl methyl ketone
	Butyl heptyl ketone
	Camphor oil
	1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one [2]
	Cyclohexanone
	Cyclohexanone, Cyclohexanol mixtures [2]
	Diisobutyl ketone
	Ethyl amyl ketone
	Epoxy resin
	Ketone residue
	Isophorone [2]
	Mesityl oxide [2]
	Methyl amyl ketone
	Methyl butyl ketone
	Methyl ethyl ketone [2]
	Methyl heptyl ketone
	Methyl isoamyl ketone
	Methyl isobutyl ketone [2]
	Methyl propyl ketone
	beta-Propriolactone
	Trifluralin in Xylene
19. Aldehydes	Acetaldehyde
	Acrolein [2]
	Butyraldehyde (all isomers)
	Crotonaldehyde [2]
	Decaldehyde
	Ethylhexaldehyde
	2-Ethyl-3-propylacrolein [2]
	Formaldehyde, Methanol mixtures [2]
	Formaldehyde solutions [2]
	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+)
	Alcohols (C12+), primary, linear
	Alcohols (C12-C13), primary, linear and essentially linear
	Alcohols (C14-C18), primary, linear and essentially linearAlkyl (C4-C9) phenols
	n-Amyl alcohol
	Amyl alcohol, primary
	sec—Amyl alcohol
	tert- Amyl alcohol
	Behenyl alcohol

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume) Brake fluid base mixtures Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters1,4-Butanediol Butyl alcohol[2] (all isomers) n-Butyl alcohol iso-Butyl alcohol t-Butyl alcohols Butylene glycol[2] Cetyl-Stearyl alcohol Choline chloride solutions Cyclohexanol Cyclopentanol Decyl alcohol (all isomers)[2] Decyl/Dodecyl/Tetradecyl alcohol mixture Diacetone alcohol[2] Diethyl hexanol Diethylene glycol Diethylene glycol dibenzoate Diisobutyl carbinol 2,2-Dimethylpropane-1,3-diol Dodecanol Dodecyl alcohol Dodecyl hydroxypropyl sulfide Ethoxylated alcohols, C11-C15 2-Ethoxyethanol Ethyl alcohol[2] Ethyl butanol Ethylene chlorohydrin Ethylene cyanohydrin Ethylene glycol[2] 2-Ethylhexanol Furfuryl alcohol[2] Glycerine[2] Glycerine, Dioxanedimethanol mixture Glycerol monooleate Glycol Glycol mixture, crude Heptanol Hexamethylene glycol Hexanol Hexylene glycol Hydroxy terminated polybutadiene Icosa(oxypropane-2,3-diyl)s Isoamyl alcohol Isobutyl alcohol Isopropyl alcohol Lauryl polyglucose (50% or less) Methacrylic acid-alkyloxypoly (alkylene oxide) methacrylate copolymer sodium salt aqueous solution (45% or less) 3-Methoxy-1-butanol Methyl alcohol[2] Methyl amyl alcohol alpha-Methylbenzyl alcohol with acetophenone (15% or less) Methyl butenol Methylbutynol 2-Methyl-2-hydroxy-3-butyne Methyl isobutyl carbinol 3-Methyl-3-methoxybutanol 2-Methyl-1,3-propanediol Molasses Nonyl alcohol[2] Octanol (all isomers)[2] Octyl alcohol[2] Penacosa(oxypropane-2,3-diyl)s Pentadecanol Polyalkylene oxide polyol Polybutadiene, hydroxy terminated Polyglycerol Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide)[2] Polyolefin amide alkeneamine polyol Propyl alcohol[2]

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Propylene glycol [2]
	Rum
	Sodium methylate solution (21–30% in Methanol)
	Sorbitol solutions
	Stearyl alcohol
	Tallow fatty alcohol
	Tetradecanol
	Tridecanol
	Trimethyl nonanol
	Trimethylol propane polyethoxylate
	Undecanol
	Undecyl alcohol
21. Phenols, Cresols	Alkylated (C4-C9) hindered phenols
	Benzyl alcohol
	Carbolic oil
	Creosote [2]
	Creosote (coal tar) [2]
	Creosote (wood tar) [2]
	Cresols (all isomers)
	Cresylic acid
	Cresylic acid dephenolized
	Cresylic acid, tar
	Dibutylphenols
	2,4-Dichlorophenol
	Di-tert-butyl phenols
	2,4-Di-tert-butyl phenols
	2,6-Di-tert-butyl phenols
	Dodecyl phenol
	o-Ethylphenol
	Long chain alkylphenate/phenol sulfide mixture
	Methylene bridged isobutylenated phanols
	Nonyl phenol
	Nonyl phenol (48–62%)/Phenol (42–48%)/Dinonyl phenol (1–10%) mixture
	Octyl phenol
	Phenol
	Xylenols
22. Caprolactam Solutions	Caprolactam solution
	epsilon-Caprolactam (molten or aqueous solutions)
23-29. Unassigned.	
30. Olefins	Acrylic acid/ethenesulfonic acid copolymer with phosphonate groups, sodium salt solution
	Amylene
	Aryl polyolefin (C11-C50)
	Butadiene
	Butadiene, Butylene mixtures (cont. Acetylenes)
	Butadiene Feedstock [Kirby]
	Butene
	Butene oligomer
	Butylene
	1,5,9-Cyclododecatriene
	1,3-Cyclopentadiene dimer (molten)
	Cyclopentadiene, Styrene, Benzene mixture
	Cyclopentene
	Decene
	Dichloropropene
	Dicyclopentadiene
	Dicyclopentadiene, Resin Grade, 81–89%
	Diisobutylene
	Dipentene
	Dodecene
	Ethylene
	Ethylene-Propylene copolymer
	Ethylidene norbornene [2]
	1-Heptene
	Hexene (all isomers)
	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

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	alpha-Methyl styrene
	Myrcene
	Nonene
	1-Octadecene
	Octene
	Olefin mixtures
	Olefin mixture (C7-C9) C8 rich, stabilized
	Olefin mixtures (C5-C7)
	Olefin mixtures (C5-C15)
	alpha-Olefins (C6-C18) mixtures
	alpha-Olefins (C13+)
	1,3-Pentadiene
	1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures
	Pentene
	alpha-Pinene
	beta-Pinene
	Polybutene
	Poly(4+)isobutylene
	Polyolefin in mineral oil
	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)
	Alkanes (C10-C26) linear and branched
	Alkanes (C10-C26) linear and branched (flash point > 60 °C)n-Alkanes (C10+)
	iso- & cyclo-Alkanes (C10-C11)
	iso- & cyclo-Alkanes (C12+)
	Aviation alkylates (C8 paraffins and iso-paraffins BPT 95-120 °C)
	Butane
	Cycloheptane
	Cyclohexane
	Cyclopentane
	Decane
	Dodecane
	Ethane
	Ethyl cyclohexane
	Heptane
	Hexane [2]
	Isopropylcyclohexane
	Methane
	Methylcyclohexane
	2-Methyl pentane
	Mineral oil
	Nonane
	Octane
	Paraffin wax
	Pentane
	Polyalpha olefins
	Polyolefin (molecular weight 300+)
	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)

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Alkylbenzene mixtures (containing at least 50% of Toluene)
	Alkyl toluene
	Alkyl (C18+) toluene
	Aryl polyolefin (C11-C50)
	Benzene
	Benzene hydrocarbon mixtures (having 10% Benzene or more)
	Benzene, Toluene, Xylene mixtures
	Butylbenzene (all isomers)
	Butyl phenol, Formaldehyde resin in Xylene
	Butyl toluene
	Cumene
	Cymene
	Decylbenzene
	Dialkyl(C10-C14) benzenes
	Diethylbenzene
	Diisopropylbenzene (all isomers)
	Diisopropyl naphthalene
	Diphenyl
	Dodecylbenzene
	Dodecyl xylene
	Ethylbenzene
	Ethyl toluene
	1-Hexadecylnaphthalene, 1, 4-bis(Hexadecyl)
	1,1-Hexadecylnaphthalene/1,4-bis (hexadecyl) naphthalene mixture
	1,n-Hexadecylnaphthalene (90%), 1,4-Di-n-(hexadecyl-naphthalene (10%)
	Isopropylbenzene
	Methyl naphthalene (molten)
	Naphthalene (molten)
	Naphthalene mixture
	Naphthalene still residue
	1-Phenyl-1-xylyl ethane
	Parachlorobenzotrifluoride
	Poly(2+)cyclic aromatics
	Polyolefin amine in alkylbenzenes (C2-C4)
	Polyolefin amine in aromatic solvent
	Propylbenzene
	Pseudocumene
	Pyrolysis gasoline (containing Benzene)
	C9 Resinfeed (DSM) [2]
	Tetradecylbenzene
	Tetrahydronaphthalene
	1,2,3,5-Tetramethylbenzene
	Toluene
	Tridecylbenzene
	Triethylbenzene
	Trimethylbenzene
	Undecylbenzene
	Xylene
	Xylenes, Ethylbenzene mixture
33. Miscellaneous Hydrocarbon Mixtures.	Alachlor
	Alachlor technical (90% or more)
	Alkylbenzenesulfonic acid, sodium salt solutions
	Alkyl dithiothiadiazole (C6-C24)
	Alkyl toluene sulfonic acid, calcium salts
	Alkyl (C18-C28) toluene sulfonic acid, Calcium salts, high overbase
	Alkyl (C18-C28) toluene sulfonic acid, Calcium salts, low overbaseAsphalt blending stocks, roofers flux
	Asphalt blending stocks, straight run residue
	Asphalt emulsion
	Asphalt, kerosene, and other components
	Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point > 60 °C (>25% but <99% by volume)
	Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point < 60 °C (>25% but <99% by volume)
	Calcuim sulfonate, Calcium carbonate, Hydrocarbon solvent mixture
	Coal tar
	Coal tar distillate
	Coal tar, high temperature
	Coal tar pitch (molten)
	Decahydronaphthalene
	Degummed C9 (DOW)
	Diphenyl, Diphenyl ether
	Distillates

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	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 Maleated ethylene-propylene copolymer reaction product [synthetic rubber] 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 Polybutene Polyolefin amine (C28-C250) Polyolefin amide alkeneamine (C17+) Polyolefin amide alkeneamine (C28+) Polyolefin amide alkeneamine borate (C28-C250) Polyolefin amide alkeneamine in mineral oil Resin oil, distilled Sodium petroleum sulfonate Sulfohydrocarbon (C3-C88) Waxes: Petroleum Sulfurized fat (C14-C20)

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
34. Esters	Sulfurized polyolefinamide alkeneamines (C28-C250) White spirit (low (15–20%) aromatic) Acid oil mixture from soybean, corn (maize) and sunflower oil refining Alkane (C14-C17) sulfonic acid, sodium salt solution Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture Alkylaryl phosphate mixtures, (more than 40% Diphenyl tolyl phosphate. Less than 0.02% ortho-isomer) Alkyl dithiocarbamate (C19-C35) Alkyl ester copolymer (C4-C20) Alkyl ester copolymer (C6-C18) Alkyl ester copolymer in mineral oil Alkyl(C7-C9) nitrates [2] Alkyl (C8-C40) phenol sulfide Alkyl (C10-C20, saturated and unsaturated) phosphite Alkyl sulfonic acid ester of phenol Alkyl (C18-C28) toluene sulfonic acid, Calcium salts, borated Alkylaryl phosphate mixtures (more than 40%) Amyl acetate (all isomers) Amyl acid phosphate t-Amyl formate 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 Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume) Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume) Boronated calcium sulfonate Butyl acetate (all isomers) Butyl benzyl phthalate Butyl butyrate (all isomers) Butyl formate iso-Butyl isobutyrate n-Butyl propionate Butyl stearate Calcium alkaryl sulfonate (C11-C50) Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture Calcium alkyl (C10-C28) salicylateCalcium carbonate slurry Calcium long chain alkaryl sulfonate (C11-C50) Calcium long chain alkyl (C5-C10) phenate Calcium long chain alkyl (C5-C20) phenate Calcium long chain alkyl (C11-C40) phenate Calcium long chain alkyl phenate sulfide (C8-C40) Calcium long chain alkyl phenates Calcium long chain alkyl salicylate (C13+) Calcium long chain alkyl (C18-C28) salicylate Calcium nitrate, Magnesium nitrate, Potassium chloride solution Calcium nitrate Calcium nitrate solutions (50% or less) Calcium salts of fatty acids Calcium stearate Camelina oil Cesium formate solution Cobalt naphthenate in solvent naphtha Coconut oil, fatty acid Coconut oil, fatty acid methyl ester Copper salt of long chain (C3-C16) fatty acid Copper salt of long chain (C17+) fatty acid Copper salt of long chain alkanoic acids Cottonseed oil, fatty acid Cyclohexyl acetate Decyl acetate Dialkyl(C7-C13) phthalates Dialkyl(C7-C17) phthalates Dialkyl thiophosphates sodium salts solution Dibutyl hydrogen phosphonate Dibutyl phthalate Dibutyl terephthalate Diethylene glycol butyl ether acetate Diethylene glycol dibenzoate Diethylene glycol ethyl ether acetate Diethylene glycol methyl ether acetate Diethylene glycol phthalate

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Di-(2-ethylhexyl)adipate
	Di-(2-ethylhexyl)phthalate
	Diethyl phthalate
	Diethyl sulfate
	Diheptyl phthalate
	Dihexyl phthalate
	Di-n-hexyl adipate
	Diisobutyl phthalate
	Diisodecyl phthalate
	Diisononyl adipate
	Diisononyl phthalate
	Diisooctyl phthalate
	Dimethyl adipate
	Dimethylcyclicsiloxane hydrolyzate
	Dimethyl glutarate
	Dimethyl hydrogen phosphite [2]
	Dimethyl naphthalene sulfonic acid, sodium salt solution [2]
	Dimethyl phthalate
	Dimethyl polysiloxane
	Dimethyl succinate
	Dinonyl phthalate
	Dioctyl phthalate
	Diphenyl tolyl phosphate, less than 0.02% ortho-isomer)
	Dipropylene glycol dibenzoate
	Dithiocarbamate ester (C7-C35)
	Ditridecyl adipate
	Ditridecyl phthalate
	2-Dodecenylsuccinic acid, dipotassium salt solution
	Diundecyl phthalate
	2-Ethoxyethyl acetate
	Ethyl acetate
	Ethyl acetoacetate
	Ethyl butyrate
	2-Ethyl-2-(2,4-dichlorophenoxy) acetate
	2-Ethyl-2-(2,4-dichlorophenoxy) propionate
	s-Ethyl dipropylthiocarbamate
	Ethylene carbonate
	Ethylene glycol
	Ethylene glycol acetate
	Ethylene glycol butyl ether acetate
	Ethylene glycol diacetate
	Ethylene glycol ethyl ether acetate
	Ethylene glycol methyl ether acetate
	Ethyl-3-ethoxypropionate
	Ethyl hexyl phthalate
	2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, C8-C10 ester
	Ethyl propionate
	Ethyl propionate
	Fatty acids (saturated, C14+)
	Glycerol polyalkoxylate
	Glyceryl triacetate
	Glycidyl ester of C10 trialkyl acetic acid
	Gylcidyl ester of tridecylacetic acid
	Heptyl acetate
	Hexyl acetate
	Isobutyl formate
	Isopropyl acetate
	Lard
	Lauric acid
	Lecithin
	Magnesium long chain alkaryl sulfonate (C11-C50)
	Magnesium long chain alkyl phenate sulfide (C8-C20)
	Magnesium long chain alkyl phenate sulfide (C8-C40)
	Magnesium long chain alkyl salicylate (C11+)
	Magnesium long chain alkyl salicylate (C13+)
	Mango kernel
	3-Methoxybutyl acetate
	1-Methoxy-2-propyl acetate
	Methyl acetate
	Methyl acetoacetate
	Methyl amyl acetate
	Methyl butyrate

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Methyl formate 3-Methyl-3-methoxybutyl acetate Methyl salicylate Metolachlor Naphthalene sulfonic acid, sodium salt solution (40% or less) Nitrilotriacetic acid, trisodium salt solution Nonyl acetate Octamethylcyclotetrasiloxane n-Octyl acetate Octyl decyl adipate Oil, edible: Beechnut Castor Cocoa butter Coconut [2] Cod liver Corn Cotton seed Fish [2] Groundnut Hazelnut Lard Lanolin Nutmeg butter Olive Palm [2] Palm kernel Peanut Poppy Poppy seed Raisin seed Rapeseed Rice bran Safflower Salad Sesame Soya bean Sunflower Sunflower seed Tucum Vegetable Walnut *Oil, misc:* Animal Coconut oil, fatty actid methyl ester Cotton seed oil, fatty acid Lanolin Palm kernel oil, fatty acid methyl ester Palm oil, methyl ester Pilchard Perilla Soapstock Soyabean (epoxidized) Tall Tall, fatty acid [2] Tung Olefin/Alkyl ester copolymer (molecular weight 2000+) Oleic acid Palm acid oil Palm fatty acid distillate Palm kernel acid oil Palm kernel acid oil, methyl esterPalm kernel oil fatty acid Palm mid fraction Palm oil Palm oil fatty acid Palm oil fatty acid methyl ester Palm kernel olein Palm kernel stearin Palm olein Palm stearin n-Pentyl propionate Phosphate esters

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate
	Polydimethylsiloxane
	Polyferric sulfate solution
	Polymethylsiloxane
	Polyolefin amide alkeneamine borate (C28-C250)
	Poly(20)oxyethylene sorbitan monooleate
	Polysiloxane
	Polysiloxane/White spirit, low (15–20%) aromatic
	Polyolefin aminoester salt
	Polyolefin ester (C28-C250)
	Polyolefin phosphorosulfide, barium derivative (C28-C250)
	Potassium formate solution
	Potassium formate solution (75% or more)
	Potassium oleate
	Potassium salt of polyolefin acid
	Propyl acetate
	Propylene carbonate
	Propylene glycol methyl ether acetate
	Rapeseed oil fatty acid methyl esters
	Rapeseed oil (low erucic acid containing less than 4% free fatty acids)
	Shea butter
	Siloxanes
	Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide) [2]
	Sodium acetate solution
	Sodium alkyl (C14-C17) sulfonates 60–65% solution
	Sodium benzoate solution
	Sodium bicarbonate solution (less than 10%)
	Sodium bromide solution (less than 50%)
	Sodium dimethyl naphthalene sulfonate solution [2]
	Sodium long chain alkyl salicylate (C13+)
	Sodium naphthalene sulfonate solution
	Sodium petroleum sulfonate
	Sodium sulfate solutions
	Soyabean oil (epoxidized)
	Stearic acid
	Tall oil
	Tall oil, crude
	Tall oil, distilled
	Tall oil fatty acid (*Resin acids less than 20%*) [2]
	Tall oil, pitch
	Tall oil soap, crude
	Tallow [2]
	Tallow fatty acid [2]
	Tributyl phosphate
	Tricresyl phosphate
	Tricresyl phosphate (containing 1% or more ortho-isomer)
	Tricresyl phosphate (containing less than 1% ortho-isomer)
	Tridecanoic acid
	Tridecyl acetate
	Triethylene glycol dibenzoate
	Triethylene glycol di-(2-ethylbutyrate)
	Triethyl phosphate
	Triethyl phosphite [2]
	Triisooctyl trimellitate
	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 [2]
	Trisodium nitrilotriacetate
	Trixylyl phosphate
	Trixylenyl phosphate
	Urea/Ammonium nitrate solution
	Vegetable acid oils and distillates, n.o.s.
	Vegetable fatty acid distillates
	Vegetable oils, n.o.s.
	Waxes:
	Carnauba
	Zinc alkaryl dithiophosphate (C7-C16)
	Zinc alkyl dithiophosphate (C3-C14)
35. Vinyl Halides	Vinyl chloride
	Vinylidene chloride

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
36. Halogenated Hydrocarbons	Benzyl chloride
	Bromochloromethane
	Carbon tetrachloride [2]
	Catoxid feedstock [2]
	Chlorinated paraffins (C10-C13)
	Chlorinated paraffins (C14-C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains)
	Chlorinated paraffins (C14-C17) (with 52% chlorine)
	Chlorinated paraffins (C18+) with any level of chlorine
	Chlorobenzene
	Chlorodifluoromethane
	Chloroform
	Chlorotoluene
	m-Chlorotoluene
	o-Chlorotoluene
	p-Chlorotoluene
	Chlorotoluenes (mixed isomers)
	Dibromomethane
	Dibutylphenols
	3,4-Dichloro-1-butene
	Dichlorobenzene (all isomers)
	Dichlorodifluoromethane
	1,1-Dichloroethane
	1,6-Dichlorohexane
	Dichloromethane
	Dichloropropane
	Ethyl chloride
	Ethylene dibromide
	Ethylene dichloride [2]
	Methyl bromide
	Methyl chloride
	Monochlorodifluoromethane
	n-Propyl chloride
	Pentachloroethane
	Perchloroethylene
	1,1,2,2-Tetrachloroethane
	1,2,3-Trichlorobenzene
	1,2,3-Trichlorobenzene (molten)
	1,2,4-Trichlorobenzene
	1,1,1-Trichloroethane [2]
	1,1,2-Trichloroethane
	Trichloroethylene [2]
	1,2,3-Trichloropropane
	1,1,2-Trichloro-1,2,2-trifluoroethane
37. Nitriles	Acetonitrile
	Acetonitrile (low purity grade)
	Adiponitrile
	Lactonitrile solution (80% or less)
	2-Methylglutaronitrile
	2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)
	Propionitrile
	Tallow nitrile
38. Carbon Disulfide	Carbon disulfide
39. Sulfolane	Sulfolane
40. Glycol Ethers	Alcohol (C9-C11) poly (2.5-9) ethoxylates
	Alcohol (C6-C17) (secondary) poly (3-6) ethoxylates
	Alcohol (C6-C17) (secondary) poly (7-12) ethoxylates
	Alcohol (C12-C16) poly (1-6) ethoxylates
	Alcohol (C12-C16) poly (7-19) ethoxylates
	Alcohol (C12-C16) poly (20+) ethoxylates
	Alkyl (C7-C11) phenol poly(4-12)ethoxylate
	Alkyl (C9-C15) phenyl propoxylate
	Diethylene glycol [2]
	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
	Dipropylene glycol butyl ether

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	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
	Glucitol/glycerol blend propoxylated (containing less than 10% amines)
	Glycerol, ethoxylated
	Glycerol, propoxylated
	Glycerol, propoxylated and ethoxylated
	Glycerol/Sucrose blend propoxylated and ethoxylated
	Hexaethylene glycol
	alpha-Hydro-omega-hydroxytetradeca (oxytetramethylene)
	Methoxy triglycol
	Nonyl phenol poly(4+)ethoxylates
	Pentaethylene glycol methyl ether
	Polyalkylene glycol butyl ether
	Polyalkylene glycols, Polyalkylene glycol monoalkyl ethers mixtures
	Polyether glycol (MW 600-700) (TETRAETHANE 650)
	Polyether glycol (MW 950-1050) (TETRAETHANE 1000)
	Polyether glycol (MW 1350-1450) (TETRAETHANE 1400)
	Polyether glycol (MW 1900-2100) (TETRAETHANE 2000)
	Polyether glycol (MW 2825-2975) (TETRAETHANE 2900)
	Polyethylene glycols
	Polyethylene glycol dimethyl ether
	Poly(ethylene glycol) methylbutenyl ether (MW>1000)
	Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether
	Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate
	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	Alcohol (C12-C13, branched and linear) poly (4-8) propoxy sulfates, sodium salt 25–30% solution
	Alkaryl polyether (C9-C20)
	tert-Amyl methyl ether
	Brominated Epoxy Resin in Acetone
	Butyl ether
	n-Butyl ether-Dichloroethyl ether
	2,2′-Dichloroisopropyl etherDiethyl ether
	Diethylene glycol propyl ether
	Diglycidyl ether of Bisphenol A
	Diglycidyl ether of Bisphenol F
	Dimethyl furan
	1,4-Dioxane
	Diphenyl ether
	Diphenyl ether, Diphenyl phenyl ether mixture

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Ethyl tert-butyl ether
	Ethyl ether
	Isopropyl ether
	Long chain alkaryl polyether (C11-C20)
	Methyl-tert-butyl ether [2]
	Methyl tert-pentyl ether
	Polyether (molecular weight 2000+)
	Polyether, borated
	Polyether polyols
	Poly(oxyalkylene)alkenyl ether (MW>1000)
	Polyoxybutylene alcohol
	Propyl ether
	Tetrahydrofuran
	1,3, 5-Trioxane
42. Nitrocompounds	o-Chloronitrobenzene
	Dinitrotoluene
	Nitrobenzene
	Nitroethane
	Nitroethane (80%)/Nitropropane (20%)
	Nitroethane, 1-Nitropropane mixture
	Nitropropane
	Nitropropane, Nitroethane mixtures
	Nitrophenol (mixed isomers)
	o- or p-Nitrotoluenes
43. Miscellaneous Water Solutions	Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)
	Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)
	Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less)
	Alkyl (C8-C10) polyglucoside solution (65% or less)
	Alkyl (C12-C14) polyglucoside solution (55% or less)
	Alkyl polyglucoside solutions
	Aluminum hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)
	Aluminum sulfate solution [2]
	2-Amino-2-hydroxymethyl-1,3-propanediol solution
	Ammonium bisulfite solution [2]
	Ammonium chloride solution (less than 25%) drilling brines
	Ammonium chloride solution (less than 25%)
	Ammonium lignosulfonate solution
	Ammonium nitrate, Urea solution (not containing Ammonia)
	Ammonium polyphosphate solution
	Ammonium sulfate solution
	Ammonium thiosulfate solution (60% or less)
	Barium sulfate slurry
	Calcium bromide solution
	Calcium chloride solution
	Calcium formate solution
	Calcium lignosulfonate solution
	Calcium lignosulfonate solution (free alkali content 1% or less)
	Caramel solutions
	Clay slurry
	Coal slurry
	Corn syrup
	Dextrose solution
	2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution
	2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution [2]
	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 brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution
	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 [2]
	Ferrous chloride solution (less than 40%, containing less than 10% Manganese and Aluminum chlorides)
	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: Carboxylated Styrene-Butadiene copolymer; Styrene-butadiene rubber

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Latex, liquid synthetic
	Lignin liquor
	Ligninsulfonic acid, magnesium salt solution
	Liquid Streptomyces solubles
	L-Lysine solution (60% or less)
	Magnesium nitrate solution (66.7%)
	N-Methylglucamine solution
	N-Methylglucamine solution (70% or less)
	Naphthenic acid, sodium salt solution
	Polyacrylic acid solution (40% or less)
	Potassium chloride solution
	Potassium chloride solution (less than 26%)
	Potassium thiosulfate solution
	Potassium thiosulfate solution (50% or less)
	Rosin soap (disproportionated) solution
	Sewage sludge, treated
	Sodium alkyl sulfonate solution
	Sodium bromide solution (less than 50%)
	Sodium hydrogen sulfite solution
	Sodium lignosulfonate solution
	Sodium polyacrylate solution [2]
	Sodium salt of Ferric hydroxyethylethylenediamine triacetic acid solution
	Sodium silicate solution [2]
	Sodium sulfide solution
	Sodium sulfite solution
	Sodium sulfite solution (25% or less)
	Sodium tartrates, Sodium succinates solution
	Sulfonated polyacrylate solutions [2]
	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

Notes:
[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 Figure 1 to 46 CFR part 150 (Compatibility Chart).
[2] See Appendix I to 46 CFR part 150 (Exceptions to the Chart).

■ 6. Revise Appendix I to part 150 to read as follows:

Appendix I to Part 150—Exceptions to the Chart

(a) The binary combinations listed below have been tested as prescribed in Appendix III to part 150 and found not to be dangerously reactive. These combinations are exceptions to Figure 1 of part 150 (Compatibility Chart) and may be stowed in adjacent tanks.

Member of reactive group	Compatible with
Acetone (18)	Diethylenetriamine (7).
Acetone cyanohydrin (0)	Acetic acid (4).
Acrylonitrile (15)	Triethanolamine (8).
n-Butyl alcohol (20)	Caustic Potash (50% or less).
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).
	n-Butyl alcohol (20).
	Ethylene glycol (20).
	Isopropyl alcohol (20).
	Methyl alcohol (20).
	iso-Octyl alcohol (20).
	Propylene glycol (20).
Caustic soda, 50% or less (5)	Acrylonitrile/Styrene copolymer dispersion in Polyether polyol (20).
	iso-Butyl alcohol (20).

Member of reactive group	Compatible with
	Butyl alcohol (20).
	tert-Butyl alcohol, Methanol mixtures.
	Decyl alcohol (20).
	Cetyl alcohol (20).
	Alcohol (C12-C16) poly(1-6)ethoxylates) (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-Decyl alcohol (20).
	iso-Nonyl alcohol (20).
	Propyl alcohol (20).
	iso-Propyl alcohol (20).
	Propylene glycol (20).
	Sodium chlorate solution (0).
	iso-Tridecanol (20).
1,1-Dichloroethane (36)	Dimethyl disulfide (0).
Dimethyl disulfide (0)	Acetic acid (4).
	Acetic anhydride (11).
	Acetone (18).
	Acrylates (14).
	Acrylic acid (4).
	Alcohols, Glycols (20).
	Aromatic hydrocarbons (32).
	Benzene (32).
	Cyclohexanone (18).
	Diisononyl phthalate (34).
	Esters (34).
	Ethyl acetate (34).
	Ethyl acrylate (14).
	Ethyl dichloride (36) [1,1-Dichloroethane].
	Ethylene cyanohydrin (20).
	Ethylene glycol ethyl ether acetate (34) [2-Ethoxyethyl acetate].
	Formic acid (4).
	Halogenated hydrocarbons (36).
	Ketones (18).
	Mesityl oxide, Methyl ethyl ketone (18).
	Octene, Olefins (30).
	Organic acids (4).
	Organic anhydrides (11).
	Paraffins (31).
	Phenol (21).
	Phenols, Cresols (21).
	Trichloroethylene (36).
Diphenylmethane diisocyanate (12)	Perchloroethylene (36).
	Dichloromethane (36).
	2,2-Dimethylpropane-1,3-diol (20).
	Polypropylene glycol (40).
	Trichloroethylene (36).
tert-Dodecanethiol (0)	Acetone (18).
	Acrylonitrile (15).
	2-Butoxyethanol (20).
	n-Butyl acrylate (14).
	Caustic soda solution (50%) (5).
	Chloroform (36).
	iso-Decyl alcohol (20).
	Dichloromethane (36).
	Diglycidyl ether of Bisphenol A (41).
	Diisodecyl phthalate (34).
	Diglycidyl ether of Bisphenol A (41).
	Dichloromethane (36).
	Diisodecyl phthalate (DIDP) (34).
	Dipropylene glycol (40).
	Epichlorohydrin (17).
	Ethyl acrylate (14).
	Methanol (20).
	Methyl ethyl ketone (18).

Member of reactive group	Compatible with
	Naphtha, Solvent (33).
	iso-Nonyl alcohol (20).
	Perchloroethylene (36).
	iso-Propyl alcohol (20).
	iso-Propylamine solution (70%) (7).
	Propylene glycol methyl ether (40).
	Propylene glycol methyl ether acetate (34).
	Tall oil, crude (34).
	Toluene (32).
	Toluene diisocyanate (TDI) (12).
	White mineral oil (Carnation oil) (33).
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).
	Fatty alcohols (C12-C14).
	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).
Lactic acid (0)	Acetic acid (4).
	Benzene (32).
	Ethanol (20).
	Polypropylene glycol (40).
	Vinyl acetate (13).
Oleum (0)	Hexane (31).
	Dichloromethane (36).
	Perchloroethylene (36).
1,2-Propylene glycol (20)	Diethylenetriamine (7).
	Polyethylene polyamines (7).
	Triethylenetetramine (7).
Sodium cresylate as Cresylate spent caustic (5)	Methyl alcohol (20).
Sodium dichromate, 70% (0)	Methyl alcohol (20).
Sodium dichromate, 69% (0)	1-Hexene (30).
Sodium hydrogen sulfide solution (5)	iso-Propyl alcohol (20).
Sodium hydrosulfide solution (5)	Methyl alcohol (20).
	Iso-Propyl alcohol (20).
Sulfuric acid (2)	Coconut oil (34).
	Coconut oil acid (34).
	Palm oil (34).
	Tallow (34).
Sulfuric acid, 98% or less (2)	Choice white grease tallow (34).

(b) The binary combinations listed below have been determined to be dangerously reactive, based on either data obtained in the literature or on laboratory testing which has been carried out in accordance with procedures prescribed in Appendix III. These combinations are exceptions to the Compatibility Chart (Figure 1) and may not be stowed in adjacent tanks.

Acetone cyanohydrin (0) is not compatible with Groups 1-12, 16, 17 and 22.

Acrolein (19) is not compatible with Group 1, Non-Oxidizing Mineral Acids.

Acrylic acid (4) is not compatible with Group 9, Aromatic Amines.

Acrylonitrile (15) is not compatible with Group 5 (Caustics).

Alkylbenzenesulfonic acid (0) is not compatible with Groups 1–3, 5–9, 15, 16, 18, 19, 30, 34, 37, and strong oxidizers.

Allyl alcohol (15) is not compatible with Group 12, Isocyanates.

Alkyl (C7-C9) nitrates (34) is not compatible with Group 1, Non-oxidizing Mineral Acids.

Aluminum sulfate solution (43) is not compatible with Groups 5–11.

Ammonium bisulfite solution (43) is not compatible with Groups 1, 3, 4, and 5.

Benzenesulfonyl chloride (0) is not compatible with Groups 5–7, and 43.

1,4-Butylene glycol (20) is not compatible with Caustic soda solution, 50% or less (5).

gamma-Butyrolactone (0) is not compatible with Groups 1–9.

C9 Resinfeed (DSM) (32) is not compatible with Group 2, Sulfuric acid.

Carbon tetrachloride (36) is not compatible with Tetraethylenepentamine or Triethylenetetramine, both Group 7, Aliphatic amines.

Catoxid feedstock (36) is not compatible with Group 1, 2, 3, 4, 5, or 12.

Caustic soda solution, 50% or less (5) is not compatible with 1,4-Butylene glycol (20).

1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one (18) is not compatible with Group 5 (Caustics) or 10 (Amides).

Crotonaldehyde (19) is not compatible with Group 1, Non-Oxidizing Mineral Acids.

Cyclohexanone, Cyclohexanol mixture (18) is not compatible with Group 12, Isocyanates.

2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution (43) is not compatible with Group 3, Nitric Acid.

2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (0) is not compatible with Groups 1–5, 11, 12, and 16.

Diethylenetriamine (7) is not compatible with 1,2,3-Trichloropropane, Group 36, Halogenated hydrocarbons.

Dimethyl hydrogen phosphite (34) is not compatible with Groups 1 and 4.

Dimethyl naphthalene sulfonic acid, sodium salt solution (34) is not compatible with Group 12, Formaldehyde, and strong oxidizing agents.

Dodecylbenzenesulfonic acid (0) is not compatible with oxidizing agents and Groups 1, 2, 3, 5, 6, 7, 8, 9, 15, 16, 18, 19, 30, 34, and 37.

Ethylenediamine (7) and Ethyleneamine EA 1302 (7) are not compatible with either Ethylene dichloride (36) or 1,2,3-Trichloropropane (36).

Ethylene dichloride (36) is not compatible with Ethylenediamine (7) or Ethyleneamine EA 1302 (7).

Ethylidene norbornene (30) is not compatible with Groups 1–3 and 5–8.

2-Ethyl-3-propylacrolein (19) is not compatible with Group 1, Non-Oxidizing Mineral Acids.

Ethyl tert-butyl ether (41) is not compatible with Group 1, Non-oxidizing mineral acids.

Fatty acids, essentially linear, C6-C18, 2-ethylhexyl ester (4) is not compatible with Group 3, Nitric acid.

Ferric hydroxyethylethylenediamine triacetic acid, Sodium salt solution (43) is not compatible with Group 3, Nitric acid.

Fish oil (34) is not compatible with Sulfuric acid (2).

Formaldehyde (over 50%) in Methyl alcohol (over 30%) (19) is not compatible with Group 12, Isocyanates.

Formic acid (4) is not compatible with Furfural alcohol (20).

Furfuryl alcohol (20) is not compatible with Group 1, Non-Oxidizing Mineral Acids and Formic acid (4).

1,6-Hexanediol distillation overheads (4) is not compatible with Group 3, Nitric acid, and Group 9, Aromatic amines.

2-Hydroxyethyl acrylate (14) is not compatible with Group 5, 6, or 12.

Isophorone (18) is not compatible with Group 8, Alkanolamines.

Lactic acid (0) is not compatible with Caustic soda solution.

Magnesium chloride solution (0) is not compatible with Groups 2, 3, 5, 6 and 12.

Mesityl oxide (18) is not compatible with Group 8, Alkanolamines.

Methacrylonitrile (15) is not compatible with Group 5 (Caustics).

Methyl tert-butyl ether (41) is not compatible with Group 1, Non-oxidizing Mineral Acids.

Nitroethane, 1-Nitropropane (each 15% or more) mixture (42) is not compatible with Group 7, Aliphatic amines, Group 8, Alkanol amines, and Group 9, Aromatic amines.

Nitropropane (20%), nitroethane (80%) mixture (42) is not compatible with Group 7 (Aliphatic amines), Group 8 (Alkanol amines), and Group 9 (Aromatic amines).

NIAX POLYOL APP 240C (0) is not compatible with Groups 2, 3, 5, 7, or 12.

o-Nitrophenol (0) is not compatible with Groups 2, 3, and 5–10.

Octyl nitrates (all isomers), see Alkyl(C7-C9) nitrates.

Oleum (0) is not compatible with Sulfuric acid (2) and 1,1,1-Trichloroethane (36).

Phthalate based polyester polyol (0) is not compatible with Groups 2, 3, 5, 7 and 12.

Polyglycerine, Sodium salts solution (20) is not compatible with Groups 1, 4, 11, 16, 17, 19, 21 and 22.

Propylene, Propane, MAPP gas mixture (containing 12% or less MAPP gas) (30) is not compatible with Group 1 (Non-oxidizing mineral acids), Group 36 (Halogenated hydrocarbons), nitrogen dioxide, oxidizing materials, or molten sulfur.

Sodium acetate, Glycol, Water mixture (1% or less Sodium hydroxide) (34) is not compatible with Group 12 (Isocyanates).

Sodium chlorate solution (50% or less) (0) is not compatible with Groups 1–3, 5, 7, 8, 10, 12, 13, 17 and 20.

Sodium dichromate solution (70% or less) (0) is not compatible with Groups 1–3, 5, 7, 8, 10, 12, 13, 17 and 20.

Sodium dimethyl naphthalene sulfonate solution (34) is not compatible with Group 12, Formaldehyde and strong oxidizing agents.

Sodium hydrogen sulfide, Sodium carbonate solution (0) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium hydrosulfide (5) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium hydrosulfide, Ammonium sulfide solution (5) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium polyacrylate solution (43) is not compatible with Group 3, Nitric Acid.

Sodium silicate solution (43) is not compatible with Group 3, Nitric Acid.

Sodium sulfide, hydrosulfide solution (0) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium thiocyanate (56% or less) (0) is not compatible with Groups 1–4.

Sulfonated polyacrylate solution (43) is not compatible with Group 5 (Caustics).

Sulfuric acid (2) is not compatible with Fish oil (34), or Oleum (0).

Tall oil fatty acid (Resin acids less than 20%) (34) is not compatible with Group 5, Caustics.

Tallow fatty acid (34) is not compatible with Group 5, Caustics.

Tetraethylenepentamine (7) is not compatible with Carbon tetrachloride, Group 36, Halogenated hydrocarbons.

1,2,3-Trichloropropane (36) is not compatible with Diethylenetriamine, Ethylenediamine, Ethyleaneamine EA 1302, or Triethylenetetramine, all Group 7, Aliphatic amines.

1,1,1-Trichloroethane (36) is not compatible with Oleum (0).

Trichloroethylene (36) is not compatible with Group 5, Caustics.

Triethylenetetramine (7) is not compatible with Carbon tetrachloride, or 1,2,3-Trichloropropane, both Group 36, Halogenated hydrocarbons.

Triethyl phosphite (34) is not compatible with Groups 1, and 4.

Trimethyl phosphite (34) is not compatible with Groups 1 and 4.

1,3,5-Trioxane (41) is not compatible with Group 1 (non-oxidizing mineral acids) and Group 4 (Organic acids).

Vinyl neodecanoate (13) is not compatible with Group 5, Caustics.

PART 153—SHIPS CARRYING BULK LIQUID, LIQUEFIED GAS, OR COMPRESSED GAS HAZARDOUS MATERIALS

■ 7. The authority citation for part 153 continues to read as follows:

Authority: 46 U.S.C. 3703; Department of Homeland Security Delegation No. 0170.1. Section 153.40 issued under 49 U.S.C. 5103. Sections 153.470 through 153.491, 153.1100 through 153.1132, and 153.1600 through 153.1608 also issued under 33 U.S.C. 1903(b).

■ 8. Revise Table 2 to part 153 to read as follows:

TABLE 2 TO PART 153—CARGOES NOT REGULATED UNDER SUBCHAPTERS D OR O OF THIS CHAPTER WHEN CARRIED IN BULK ON NON-OCEANGOING BARGES

[The cargoes listed in this table are not regulated under subchapter D or O of this title when carried in bulk on non-oceangoing barges. Category X, Y, or Z noxious liquid substance (NLS) cargo, as defined in Annex II of MARPOL 73/78, listed in this table, or any mixture containing one or more of these cargoes, must be carried under this subchapter if carried in bulk on an oceangoing ship.]

Cargoes	Pollution category
Acrylic acid/ethenesulfonic acid copolymer with phosphonate groups, sodium salt solution *	Z
Aluminum sulfate solution *	Y
2-Amino-2-hydroxymethyl-1,3-propanediol solution	#
Ammonium hydrogen phosphate solution	Z
Ammonium lignosulfonate solutions, *see also* Lignin liquor	Z
Ammonium nitrate solution (45% or less)	#
Ammonium phosphate, urea solution, *see also* Urea, Ammonium phosphate solution	#

TABLE 2 TO PART 153—CARGOES NOT REGULATED UNDER SUBCHAPTERS D OR O OF THIS CHAPTER WHEN CARRIED IN BULK ON NON-OCEANGOING BARGES—Continued

[The cargoes listed in this table are not regulated under subchapter D or O of this title when carried in bulk on non-oceangoing barges. Category X, Y, or Z noxious liquid substance (NLS) cargo, as defined in Annex II of MARPOL 73/78, listed in this table, or any mixture containing one or more of these cargoes, must be carried under this subchapter if carried in bulk on an oceangoing ship.]

Cargoes	Pollution category
Ammonium polyphosphate solution	Z
Ammonium sulfate solution	Z
Ammonium thiosulfate solution (60% or less)	Z
Apple juice	OS
Calcium bromide solution	Z
Calcium carbonate slurry	OS
Calcium chloride solution	Z
Calcium hydroxide slurry	Z
Calcium lignosulfonate solution, *see also* Lignin liquor	Z
Calcium nitrate solutions (50% or less) *	Z
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	Z
Caramel solutions	#
Chlorinated paraffins (C14-C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains) *	X
Chlorinated paraffins (C14-C17) (with 52% Chlorine)	#
2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution	#
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution *	Y
Choline chloride solutions	Z
Clay slurry	OS
Coal slurry	OS
Dextrose solution, see Glucose solution	.....
Diethylenetriamine pentaacetic acid, pentasodium salt solution	Z
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	#
Dodecenylsuccinic acid, dipotassium salt solution	#
Drilling brine (containing Calcium, Potassium, or Sodium salts) (*see also* Potassium chloride solution (10% or more))	#
Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution (if non-flammable and non-combustible)	Z
Drilling brines (containing Zinc salts)	X
Drilling mud (low toxicity) (if non-flammable and non-combustible)	#
Ethylene-Vinyl acetate copolymer (emulsion)	Y
Ferric hydroxyethylethylenediamine triacetic acid, trisodium salt solution	#
Fish solubles (water based fish meal extracts)	#
Fructose solution	#
Glucose solution	OS
Glycine, Sodium salt solution	Z
Glyphosate solution (not containing surfactant) *	Y
Hexamethylenediamine adipate solution	#
Hexamethylenediamine adipate (50% in water)	Z
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution	Y
Kaolin clay solution	#
Kaolin slurry	OS
Kraft pulping liquor (free alkali content, 1% or less) *including: Black, Green, or White liquor*	#
Lignin liquor (free alkali content, 1% or less)	Z
including:	
Ammonium lignosulfonate solutions	Z
Calcium lignosulfonate solutions	Z
Sodium lignosulfonate solution	Z
Ligninsulfonic acid, Sodium salt solution	Z
Magnesium chloride solution	Z
Magnesium hydroxide slurry	Z
Magnesium sulfonate solution	#
Maltitol solution *	OS
Microsillica slurry *	OS
Milk	#
Molasses	OS
Molasses residue (from fermentation)	#
Naphthalenesulfonic acid-Formaldehyde copolymer, sodium salt solution	Z
Naphthenic acid, sodium salt solution	#
Nitrilotriacetic acid, trisodium salt solution *	Y
Noxious liquid, NF, (1) n.o.s. (“trade name” contains “principle components”) ST 1, Cat X (if non-flammable and non-combustible)	X
Noxious liquid, NF, (3) n.o.s. (“trade name” contains “principle components”) ST 2, Cat X (if non-flammable and non-combustible)	X
Noxious liquid, NF, (5) n.o.s. (“trade name” contains “principle components”) ST 2, Cat Y (if non-flammable and non-combustible)	Y
Noxious liquid, NF, (7) n.o.s. (“trade name” contains “principle components”) ST 3, Cat Y (if non-flammable and non-combustible)	Y

TABLE 2 TO PART 153—CARGOES NOT REGULATED UNDER SUBCHAPTERS D OR O OF THIS CHAPTER WHEN CARRIED IN BULK ON NON-OCEANGOING BARGES—Continued

[The cargoes listed in this table are not regulated under subchapter D or O of this title when carried in bulk on non-oceangoing barges. Category X, Y, or Z noxious liquid substance (NLS) cargo, as defined in Annex II of MARPOL 73/78, listed in this table, or any mixture containing one or more of these cargoes, must be carried under this subchapter if carried in bulk on an oceangoing ship.]

Cargoes	Pollution category
Noxious liquid, NF, (9) n.o.s. (''trade name'' contains ''principle components'') ST 3, Cat Z (if non-flammable and non-combustible)	Z
Noxious liquid, NF, (11) n.o.s. (''trade name'' contains ''principle components'') Cat Z (if non-flammable and non-combustible)	Z
Noxious liquid, NF, (12) n.o.s. (''trade name'' contains ''principle components'') Cat OS (if non-flammable and non-combustible)	OS
Orange juice (concentrated) *	OS
Orange juice (not concentrated) *	OS
Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution	.....
Polyaluminum chloride solution	Z
Potassium chloride solution (26% or more), see Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution	.....
Potassium chloride solution (less than 26%) *	OS
Potassium formate solutions *	Z
Potassium thiosulfate (50% or less) *	Y
Sewage sludge, treated (*treated so as to pose no additional decompositional and fire hazard; stable, non-corrosive, non-toxic, non-flammable)*	#
Silica slurry	#
Sludge, treated (*treated so as to pose no additional decompositional and fire hazard; stable, non-corrosive, non-toxic, non-flammable)*	#
Sodium acetate, Glycol, Water mixture (containing 1% or less Sodium hydroxide) (if non-flammable or non-combustible)	#
Sodium acetate solutions	Z
Sodium alkyl (C14-C17) sulfonates (60–65% solution) *	Y
Sodium aluminosilicate slurry	Z
Sodium bicarbonate solution (less than 10%) *	OS
Sodium carbonate solution	Z
Sodium hydrogen sulfide (6% or less)/Sodium carbonate (3% or less) solution *	Z
Sodium lignosulfonate solution, *see also* Lignin liquor	Z
Sodium naphthenate solution (free alkali content, 3% or less), see Naphthenic acid, sodium salt solution	.....
Sodium poly(4+)acrylate solutions	Z
Sodium silicate solution	Y
Sodium sulfate solutions	Z
Sodium sulfite solution (25% or less) *	Y
Sodium thiocyanate solution (56% or less) *	Y
Sorbitol solution	OS
Sulfonated polyacrylate solution	Z
Tetrasodium salt of Ethylenediaminetetraaacetic acid solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution	.....
Titanium dioxide slurry	Z
1,1,1-Trichloroethane	Y
1,1,2-Trichloro-1,2,2-trifluoroethane	Y
Trisodium salt of N-(Hydroxyethyl)ethylenediamine triacetic acid solution, see N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution.	.....
Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution	#
Urea/Ammonium nitrate solution *	Z
Urea/Ammonium phosphate solution	Y
Urea solution	Z
Vanillan black liquor (free alkali content, 1% or less)	#
Vegetable protein solution (hydrolyzed) (if non-flammable and non-combustible)	OS
Water	OS
Zinc bromide, Calcium bromide solution, see Drilling brines (containing Zinc salts)	.....

Explanation of Symbols Used in this Table:
X, Y, Z—NLS Category of Annex II of MARPOL 73/78.
#—No determination of NLS status. For shipping on an oceangoing vessel, see 46 CFR 153.900(c).
OS—Other substances, at present considered to present no harm to marine resources, human health, amenities or other legitimate uses of the sea when discharged into the sea from tank cleaning or deballasting operations.
Abbreviations for Noxious Liquid Cargoes Used In This Table:
Cat—Pollution category.
NF—Non-flammable (flash point greater than 60 degrees C (140 degrees F) cc).
n.o.s.—Not otherwise specified.
ST—Ship type.
*—From the March 2012 Annex to the 2007 IBC Code.

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