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46 CFR Parts 30, 150, and 153

2013 Liquid Chemical Categorization Updates; Proposed Rule

DEPARTMENT OF HOMELAND SECURITY

Coast Guard

46 CFR Parts 30, 150, and 153

[Docket No. USCG–2013–0423]

RIN 1625–AB94

2013 Liquid Chemical Categorization Updates

AGENCY: Coast Guard, DHS.

ACTION: Supplemental notice of proposed rulemaking.

SUMMARY: The Coast Guard proposes additional updates and revisions to regulatory tables that were amended by an interim rule published in August 2013. The tables list liquid hazardous materials, liquefied gases, and compressed gases approved for maritime transportation in bulk, and indicate how each cargo is categorized by its pollution risk and safe carriage requirements. These proposals would correct errors in the interim rule and bring the tables current through December 2013. 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. The proposed rule promotes the Coast Guard's maritime safety and stewardship (environmental protection) missions.

DATES: Comments and related material must be submitted to the online docket via <http://www.regulations.gov>, or reach the Docket Management Facility, on or before January 20, 2016.

ADDRESSES: Submit comments using one of the listed methods, and see the **SUPPLEMENTARY INFORMATION** section of this preamble for more information on public comments.

- **Online**—<http://www.regulations.gov> following Web site instructions.
- **Fax**—202–493–2251.
- **Mail or hand deliver**—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. Hand delivery hours: 9 a.m. to 5 p.m., Monday through Friday, except Federal holidays (telephone 202–366–9329).

FOR FURTHER INFORMATION CONTACT: For information about this document call or email Mr. Patrick Keffler, Coast Guard; telephone 202–372–1424, email Patrick.A.Keffler@uscg.mil. For information about viewing or submitting material to the docket, call Ms. Cheryl

Collins, Program Manager, Docket Operations, telephone 202–366–9826, toll free 1–800–647–5527.

SUPPLEMENTARY INFORMATION:

Table of Contents for Preamble

- I. Public Participation and Comments
- II. Abbreviations
- III. Discussion
- IV. Regulatory Analyses
 - A. Regulatory Planning and Review
 - B. Small Entities
 - C. Assistance for Small Entities
 - D. Collection of Information
 - E. Federalism
 - F. Unfunded Mandates Reform Act
 - G. Taking of Private Property
 - H. Civil Justice Reform
 - I. Protection of Children
 - J. Indian Tribal Governments
 - K. Energy Effects
 - L. Technical Standards
 - M. Environment

I. Public Participation and Comments

We encourage you to submit comments (or related material) on this rulemaking. We will consider all submissions and may adjust our final action based on your comments. Comments should be marked with docket number USCG–2013–0423 and should provide a reason for each suggestion or recommendation. You should provide personal contact information so that we can contact you if we have questions regarding your comments; but please note that all comments will be posted to the online docket without change and that any personal information you include can be searchable online.¹

Mailed or hand-delivered comments should be in an unbound 8½ × 11 inch format suitable for reproduction. The Docket Management Facility will acknowledge receipt of mailed comments if you enclose a stamped, self-addressed postcard or envelope with your submission.

Documents mentioned in this notice, and all public comments, are in our online docket at <http://www.regulations.gov> and can be viewed by following the Web site's instructions. You can also view the docket at the Docket Management Facility (see the mailing address under **ADDRESSES**) between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

We are not planning to hold a public meeting but will consider doing so if public comments indicate a meeting would be helpful. We would issue a separate **Federal Register** notice to announce the date, time, and location of such a meeting.

¹ See the **Federal Register** Privacy Act notice regarding our public dockets, 73 FR 3316, Jan. 17, 2008.

II. Abbreviations

DHS—Department of Homeland Security
 E.O.—Executive Order
 FR—Federal Register
 IBC Code—International Code for the Construction and Equipment of Ships Carrying Dangerous 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
 SOLAS—International Convention for the Safety of Life at Sea
 §—Section Symbol
 U.S.C.—United States Code

III. Discussion

Basis and purpose. The legal basis of this rulemaking 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, or “MARPOL”), 46 U.S.C. 2103 (general 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 DHS Delegation No. 0170.1, para. II (77), (92.a), and (92.b).

The purpose of the rulemaking 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 cargo is categorized by its pollution risk and safe carriage requirements.

2013 Interim Rule. The Coast Guard published an interim rule on this topic in 2013.² Acknowledging public comments that brought to light certain errors in the interim rule, the Coast Guard delayed its effective date, originally September 16, 2013, on three occasions, most recently until January 16, 2017.³ We are correcting those errors

² “2012 Liquid Chemical Categorization Updates; Interim Rule,” 78 FR 50147 (Aug. 16, 2013). Because the interim rule contained information updated only through December 2012, it bore the heading “2012 Liquid Chemical Categorization Updates.” This SNPRM is headed “2013 Liquid Chemical Categorization Updates” because it has been updated as of the December 2013 MEPC Circular, but the SNPRM shares the same docket with the interim rule.

³ See 78 FR 56837 (Sep. 16, 2013; delayed until Jan. 16, 2014); 79 FR 2106 (Jan. 13, 2014; delayed

in this supplemental notice of proposed rulemaking (SNPRM). In addition, given the lapse of time since we published the interim rule, we propose updating the interim rule's tables as of December 2013. Therefore, we are issuing an SNPRM, rather than proceeding directly from the 2013 interim rule to a final rule, so that, in the interest of ensuring the accuracy of our tables, we can take another round of public comments before issuing a final rule.

Purpose of tables. Coast Guard regulations in 46 CFR subchapter D (tank vessels, parts 30 through 39) and subchapter O (certain bulk dangerous cargoes, parts 150 through 155) contain requirements for ensuring the safe maritime carriage (transportation) of certain bulk liquid cargoes. Tables in subchapters D and O list the cargoes that have been approved for maritime carriage. They also categorize each cargo's pollution-hazard risk and safe carriage requirements in accordance with the Coast Guard and International Maritime Organization (IMO) assessment and review processes described in the following paragraphs. This information is of value to vessel owners and operators and to shippers of the cargoes involved.

Initial cargo assessment. If a vessel owner or operator plans to ship a newly-developed chemical substance internationally, as a bulk liquid cargo, the new cargo's chemical properties need to be assessed to ensure safe carriage.⁴ Our tables contain cargo categorization information that derives from this initial assessment.

Agencies responsible for administering international maritime treaties (for the U.S., this is the Coast Guard) must agree on the new cargo's assessment before the cargo can be approved for transportation. This is done by a "tripartite agreement" entered into by the administrations of the exporting country, the importing country, and the country in which the ship that will carry the cargo is registered. The tripartite agreement categorizes the cargo's pollution-hazard risk and flammability/combustibility in accordance with the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code).⁵ A copy of the

tripartite agreement is forwarded to the IMO's Marine Environment Protection Committee (MEPC) and to the administration of every country that is signatory to the IBC Code.

The Coast Guard is unique among IBC Code-signatory administrations because, in addition to the categorizations contained in the tripartite agreement, it also assigns each cargo to a "compatibility group." This grouping guides IBC signatories and shippers in determining which cargoes, based on chemical analyses and test data submitted by manufacturers, would be chemically incompatible with other cargoes and therefore cannot safely be shipped with those other cargoes in adjacent tanks, without special precautions.⁶ Our tables also reflect these compatibility groupings.

IMO assessment. Upon receipt of a tripartite agreement, the MEPC conducts its own multi-year review and assessment of the information contained in the tripartite agreement, and following that review, either validates or modifies the agreement's information. Our tables also reflect any modifications resulting from this IMO assessment.

Each December, the MEPC releases a circular listing each new cargo for which it has completed its review of the cargo's tripartite agreement. The circular lists the countries that have approved international maritime transportation of each new cargo, and provides information about the cargo's pollution-hazard risk and flammability/combustibility. Thus, if a tripartite agreement has approved a cargo for international bulk maritime transportation and the MEPC validates or modifies that information, eventually it will be listed in the MEPC circular.

Periodically, the IBC Code is revised, and cargoes listed in MEPC annual circulars since the last edition of the IBC Code are incorporated. The IBC Code was last comprehensively revised in 2007, at which time the previous pollution categorization scheme (categories A, B, C, and D, which indicate a cargo's relative pollution-hazard risk) were replaced by categories X, Y, Z, and OS (for "other cargoes," which at present are considered to pose no risk).⁷ Our tables are intended to

reflect the latest IBC Code revision, but until this rulemaking, they were not updated to incorporate the changes made by the 2007 IBC Code revision.

IMO actions reflected in this rulemaking. In March 2012, the IMO published an Annex to the 2007 IBC Code, listing additional cargoes with their pollution categorizations.

Until we published our 2013 interim rule, the tables in subchapter D and subchapter O had gone unamended for several years, and still contained the pre-2007 pollution categorizations. The interim rule updated the following tables as of the December 2012 MEPC circular:

- "Table 30.25-1" in subchapter D;
- "Table I to Part 150" in subchapter O;
- "Table II to Part 150" in subchapter O; and
- "Table 2 to Part 153" in subchapter O.

This supplemental notice of proposed rulemaking (SNPRM) proposes updating these tables as of the December 2013 circular. All four tables include cargoes that are listed either in MEPC circulars, or in tripartite agreements to which the U.S. is a party. (Information from other tripartite agreements is excluded pending MEPC review.)

Table contents. Table 30.25-1 lists flammable or combustible cargoes that, when transported in bulk, must be certificated under subchapter D regulations.

The two tables in part 150 contain the Coast Guard chemical compatibility categorization for each cargo. Table I lists all cargoes alphabetically and provides a category group for each. Table II lists cargoes by group.

Table 2 to Part 153 lists cargoes that, when carried in bulk on non-oceangoing barges, are not subject to subchapter D or O regulations, but that must comply with subchapter O if they are carried on oceangoing ships.⁸

Comments on 2013 interim rule and resulting changes. Our interim rule prompted comments from two individuals and four industry representatives, one of whom made multiple submissions. The two

- Z = Minor hazard justifying less stringent restrictions on the quality and quantity of the discharge; and
- OS = No harm that justifies special discharge requirements

⁸ Table 1 to Part 153, "Summary of Minimum Requirements [for safe carriage]" is not amended by this rulemaking. It lists a fuller list of minimum safe carriage requirements than those contained in the tables that this rulemaking amends. Because of Table 1's greater complexity, it may be the subject of a future rulemaking, pending study and recommendations from the Coast Guard's Chemical Transportation Advisory Committee.

until Jan. 16, 2015); 79 FR 68131 (Nov. 14, 2014); delayed until Jan. 16, 2017).

⁴ For Coast Guard approval to ship a cargo not previously approved for carriage, see 46 CFR 153.900.

⁵ The IBC Code 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).

⁶ See 46 CFR 150.120, 150.130, and Figure 1 to Part 150 (a compatibility matrix for determining how cargoes should be grouped).

⁷ See MARPOL, Annex II, Chapter 2, Regulation 6. With respect to the discharge of a cargo into the sea from tank cleaning or deballasting operations and the resulting hazard posed to marine resources or human health, the new categories indicate:

- X = Major hazard justifying prohibition of the discharge;
- Y = Hazard justifying a limitation on the quality and quantity of the discharge;

individuals commented on the safety of food containing genetically modified organisms. That is not an issue raised by our rulemaking and therefore is beyond its scope.

Three commenters asked why we had not discussed draft table updates with the Chemical Transportation Advisory Committee (CTAC), a group that advises the Coast Guard on chemical transportation matters, and suggested that consultation with CTAC could be helpful, along with more time for industry to review the interim rule before it took effect. CTAC operates pursuant to the Federal Advisory Committee Act, which requires advisory committees to operate under a valid charter.⁹ From 2009 until 2013, the period during which we developed the interim rule, CTAC lacked such a charter and therefore was not operational. Since its reestablishment in 2013, we have kept CTAC apprised as to this rulemaking's status, but at no time has CTAC expressed the desire to make formal recommendations to the Coast Guard as to the rulemaking's direction. We are open to future CTAC recommendations, and individual CTAC members are welcome to comment on this SNPRM, as they are on any Coast Guard rulemaking. As to additional industry time for review, we believe the continuing delay in the interim rule's effective date has provided ample additional review time.

Three commenters said that, in Table I to Part 150, we mistakenly listed several cargoes in compatibility group 4, when in the past they have been listed in group 34 and not group 4. We agree this was a mistake and this SNPRM shows the cargoes in group 34.

One commenter asked if we consider that all cargoes shown in Table 30.25-1 or Table 2 to Part 153 as "n.o.s." ("not otherwise specified") should be assigned in Table I to Part 150 in group 0. We do not. Group 0 is the default assignment for a cargo that we have either determined cannot be shipped safely with any other cargo, or for a cargo for which we are unable to make any other assignment because we lack sufficient chemical analysis and test data on which to make that assignment. These criteria do not necessarily apply to an "n.o.s." cargo, and therefore we assign many "n.o.s." cargoes to compatibility groups other than group 0.

One commenter said that sodium methylate 21-30%, instead of being listed in compatibility group 20, should be listed in group 0 due to its highly reactive nature, and that diglycidyl ether of bisphenol A and F should be

listed in compatibility group 18 rather than in group 41. We agree that the interim rule incorrectly listed these cargoes and this SNPRM shows sodium methylate 21-30% in group 0 and diglycidyl ether of bisphenol A and F in group 18.

One commenter addressed the interim rule's amendment to "Appendix I to Part 150—Exceptions to the Chart." The "chart" referred to is Figure 1 to Part 150, a matrix showing how cargo compatibility can be determined. Appendix I lists binary combinations of substances that are treated as exceptions to Figure 1 because they have been tested and found not to be dangerously reactive. One commenter said that our revision of Appendix I failed to list between 10 and 15 previously approved exceptions. We agree and this SNPRM restores those exceptions to Appendix I.

One commenter said we should have expanded the interim rule's discussion of tripartite agreements, and we have done so accordingly in the "Background" section of this SNPRM. In addition to the changes we have made in response to comments, we are also restoring liquefied flammable gas listings in subchapter D's Table 30.25-1. We removed those listings in the interim rule, in anticipation of a policy change that would have allowed them to fall exclusively under subchapter O. That policy change has not occurred and we have restored the listings in this SNPRM.

It is our intention, for future years, to keep the tables updated annually. This SNPRM proposes the addition of new entries that would bring them up to date as of the December 2013 MEPC Circular.

We specifically request public comment on whether or not this SNPRM's information is correct, and in particular whether or not we have correctly and fully responded to comments on the interim rule and brought our information up to date as of December 2013.

IV. 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 proposed rule has not been designated a "significant regulatory action" under section 3(f) of E.O. 12866. Accordingly, the proposed rule has not been reviewed by the Office of Management and Budget. A draft regulatory assessment is included herein.

Affected Population

This proposed rule updates tables that list the names, pollution risk categorizations, and safe carriage requirements of liquid chemical cargoes that have already been categorized and approved for maritime transportation in bulk, either permanently or on a provisional basis. This proposed rule makes no new decisions about whether any specific chemical cargo should be approved for bulk maritime transportation, about how any specific cargo should be categorized, or about carriage requirements that should apply to any specific cargo. It simply provides updated information about cargoes that are currently approved for maritime transportation in bulk, and the cargo's pollution categorization and minimum transportation safety requirements. This proposed rule indirectly applies to the carriage of the subject cargoes from the following tank vessel populations as described in 46 CFR 30.01-5, 150.115 (with exceptions described in 46 U.S.C. 3702), 153.1, and 154.5 as described therein. All U.S. tank vessels are included. Foreign tank vessels are, in general, exempt from this regulation when on innocent passage through U.S. waters, except for liquefied gas cargo/cargo residue or vapor carriers. Also included are self-propelled bulk cargo carrying oceangoing/non-oceangoing U.S.-flag and oceangoing foreign-flag vessels when in U.S. waters.

Costs

This proposed rule updates tables that list the names, pollution risk categorizations, and safe carriage requirements of liquid chemical cargoes 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 proposed rule simply updates tables and a table preface to reflect decisions already made under international law about which liquid chemical cargoes are approved for bulk maritime transportation, and about how those cargoes 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 supplemental notice of proposed rule.

⁹ 5 U.S.C. Appendix 2, sec. 9(c).

The only party that will incur any cost will be the Coast Guard. This cost is for 40 hours total of updating work on approximately 50 chemicals per year, for an approximate annual cost of \$3,200. The cost is based on 40 hours times the loaded hourly cost to the Coast Guard (wages and employee benefits) of employing a GS-13 or equivalent (\$80). The source for this is Commandant Instruction 7310.1P (http://www.uscg.mil/directives/ci/7000-7999/CI_7310_1P.pdf).

In addition, the proposals would correct errors and omissions in the interim rule and bring the tables current through December 2013. This proposed rule incorporates Coast Guard compatibility categorizations and chemical cargoes and categorizations listed by the IMO through its December 2013 MEPC Circular.

Benefits

The primary benefit of this proposed 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 proposed 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. Since this proposed rule does not impose any additional direct costs, it does not impose any additional direct costs on small entities as defined by the RFA. Therefore, the Coast Guard certifies that under 5 U.S.C. 605(b), the proposed rule will not have a significant economic impact on a substantial number of small entities.

If you think that your business, organization, or governmental jurisdiction qualifies as a small entity and that this rule would have a significant economic impact on it, please submit a comment to the Docket Management Facility at the address under **ADDRESSES**. In your comment, explain why you think it qualifies and how and to what degree this rule would economically affect it.

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 proposed rule would affect your small business, organization, or governmental jurisdiction and you have questions concerning its provisions or options for compliance, please consult Mr. Patrick Keffler at Patrick.A.Keffler@uscg.mil. The Coast Guard will not retaliate against small entities that question or complain about this proposed rule or any policy or action of the Coast Guard.

D. Collection of Information

This proposed rule would call for no new collection of information under the Paperwork Reduction Act of 1995 (44 U.S.C. 3501–3520). This proposed rule simply updates and revises tables that list cargoes 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 proposed 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, including categories for inspected vessels. It is also well-settled, 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 (2000)). This proposed rule amends existing regulations for inspected vessels carrying certain bulk dangerous cargoes, which, under the principles

discussed in *Locke*, fall within the categories enumerated in 46 U.S.C. 3306 and 3703, which are themselves 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.

While it is well settled that States may not regulate in categories in which Congress intended the Coast Guard to be the sole source of a vessel’s obligations, the Coast Guard recognizes the key role that State and local governments may have in making regulatory determinations. Additionally, for rules with federalism implications and preemptive effect, Executive Order 13132 specifically directs agencies to consult with State and local governments during the rulemaking process. If you believe this proposed rule has implications for federalism under Executive Order 13132, please contact the person listed in the **FOR FURTHER INFORMATION CONTACT** section of this preamble.

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 proposed 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 proposed 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 proposed 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 proposed rule under E.O. 13045 (“Protection of Children from Environmental Health Risks and Safety Risks”). This proposed 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 proposed 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 proposed 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 proposed rule does not use technical standards. Therefore, we did not consider the use of voluntary consensus standards.

M. Environment

We have analyzed this proposed rule under Department of Homeland Security Management Directive 023–01 and Commandant Instruction M16475.1D, 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 Comments” section of this preamble. This proposed rule involves administrative updates of existing chemical transport regulations and updates provisions relating to the chemical properties of liquid chemical cargoes approved for maritime transportation in bulk. The update incorporates changes in how approved cargoes are categorized by their chemical properties. This proposed 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, July 23, 2002) 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 proposed 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 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 proposes to amend 46 CFR parts 30, 150, and 153, as amended by the interim rule published on August 16, 2013 (78 FR 50148), as follows:

Subchapter D—Tank Vessel

PART 30—GENERAL PROVISIONS

- 1. Revise the authority citation for part 30 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, para. II (92.a), (92.b); 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, as amended by the interim rule published on August 16, 2013 (78 FR 50148), effective January 16, 2017, as delayed at 79 FR 68132, November 14, 2014, 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 cargoes 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; or

(2) Under part 153 if the vessel is regulated under that part; or alternatively under 33 CFR part 151 if the cargo is listed in 33 CFR 151.49; or

(3) Under 33 CFR part 151 if the cargo is listed in 33 CFR 151.47. 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
<i>Alcohol(C12-C15) poly(. . .) ethoxylates, see Alcohol(C12-C16) poly(. . .) ethoxylates</i>	
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
Acrylic acid/ethenesulphonic acid copolymer with phosphonate groups, sodium salt solution	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
<i>Alkyl phenol sulfide (C8-C40), see Alkyl(C8-C40) phenol sulfide</i>	
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
Alkyl(C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	Y
Alkyl(C10-C20, saturated and unsaturated) phosphite	Y
<i>n-Alkyl phthalates, see individual phthalates</i>	
Alkyl sulfonic acid ester of phenol	Y
Aluminium hydroxide, sodium	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
<i>Amyl methyl ketone, see Methyl amyl ketone</i>	
<i>Amylene, see Pentene (all isomers)</i>	
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	#
<i>Behenyl alcohol, see Alcohols (C13+)</i>	
Benzene tricarboxylic acid, trioctyl ester	Y

Cargo name	IMO Annex II Pollution Category
Benzyl acetate	Y
Benzyl alcohol	Y
Bis(2-ethylhexyl) terephthalate	Y
Brake fluid base mix: Poly(2–8)alkylene(C2–C3) glycols/Polyalkylene(C2–C10) glycols monoalkyl(C1–C4) ethers and their bo- rate esters.	Z
Butane	LFG
<i>Butene</i> , see Butylene	
Butene oligomer	X
2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)	Y
Butyl acetate (all isomers)	Y
<i>Butyl alcohol (iso-, n-, sec-, tert-)</i> , see Butyl alcohol (all isomers)	
Butyl alcohol (all isomers)	Z
Butylbenzene (all isomers)	X
Butyl benzyl phthalate	X
Butyl butyrate (all isomers)	Y
Butylene	LFG
Butylene glycol	Z
<i>1,3-Butylene glycol</i> , see Butylene glycol	
iso-Butyl formate	#
n-Butyl formate	#
Butyl heptyl ketone	#
<i>Butyl methyl ketone</i> , see Methyl butyl ketone	
n-Butyl propionate	Y
Butyl stearate	#
Butyl toluene	#
gamma-Butyrolactone	Y
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture	#
<i>Calcium alkyl salicylate</i> , see Calcium long-chain alkyl salicylate (C13+)	
Calcium long-chain alkaryl sulfonate (C11–C50)	#
<i>Calcium long-chain alkyl phenate (C8–C40)</i> , 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
<i>Camelina oil</i>	Y
<i>Candelilla wax</i> , see Waxes	
<i>Caprolactam solutions</i> , see epsilon-Caprolactam (molten or aqueous solutions)	
epsilon-Caprolactam (molten or aqueous solutions)	Z
<i>Carnauba wax</i> , see Waxes	
<i>Cetyl alcohol</i> , see Alcohols (C13+)	
<i>Cetyl-stearyl alcohol</i> , 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
Coal oil	#
Coconut oil fatty acid methyl ester	Y
Cod liver oil	#
Copper salt of long-chain (C17+) alkanolic acid	Y
Corn acid oil	#
Cotton seed acid oil	#
<i>Cotton seed, fatty acid</i> , see Cotton seed oil, fatty acid	
Cotton seed oil, fatty acid	#
Crude Isononylaldehyde	#
Crude Isopropanol	Z
† Crude oil	I
<i>Cumene</i> , 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	#

Cargo name	IMO Annex II Pollution Category
<i>Decane, see n-Alkanes (C10+)</i>	
Decanoic acid	X
Decene	X
Decyl acetate	#
Decyl alcohol (all isomers)	Y
<i>n-Decylbenzene, see Alkyl(C9+)benzenes</i>	
<i>Detergent alkylate, see Alkyl(C9+)benzenes</i>	
Diacetone alcohol	Z
<i>Dialkyl(C10–C14) benzenes, see Alkyl(C9+) benzenes</i>	
Dialkyl(C8–C9) diphenylamines	Z
Dialkyl(C7–C13) phthalates	X
<i>Including:</i>	
<i>Diisodecyl phthalate</i>	
<i>Diisononyl phthalate</i>	
<i>Dinonyl phthalate</i>	
<i>Ditridecyl phthalate</i>	
<i>Diundecyl phthalate</i>	
<i>Dibutyl carbinol, see Nonyl alcohol (all isomers)</i>	
Dibutyl hydrogen phosphonate	Y
2,6-Di-tert-butylphenol	X
Dibutyl phthalate	X
<i>ortho-Dibutyl phthalate, see Dibutyl phthalate</i>	
Dibutyl terephthalate	Y
<i>Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)</i>	
Diesel oil	I
Diethylbenzene	Y
Diethylene glycol	Z
<i>Diethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether</i>	
<i>Diethylene glycol butyl ether acetate, see Poly(2–8) alkylene glycol monoalkyl(C1–C6) ether acetate</i>	
Diethylene glycol diethyl ether	Z
<i>Diethylene glycol ethyl ether, see Poly(2–8) alkylene glycol monoalkyl(C1–C6) ether</i>	
<i>Diethylene glycol ethyl ether acetate, see Poly(2–8) alkylene glycol monoalkyl (C1–C6) ether acetate</i>	
<i>Diethylene glycol n-hexyl ether, see Poly (2–8) alkylene glycol monoalkyl (C1–C6) ether</i>	
<i>Diethylene glycol methyl ether, see Poly(2–8) alkylene glycol monoalkyl (C1–C6) ether</i>	
<i>Diethylene glycol methyl ether acetate, see Poly(2–8) alkylene glycol monoalkyl (C1–C6) ether acetate</i>	
Diethylene glycol phenyl ether	#
Diethylene glycol phthalate	Y
<i>Diethylene glycol propyl ether, see Poly(2–8) alkylene glycol monoalkyl (C1–C6) ether</i>	
Di-(2-ethylhexyl) adipate	Y
<i>Di-(2-ethylhexyl) phthalate, see Dioctyl phthalate</i>	
Diethyl phthalate	Y
Diglycidyl ether of bisphenol A	X
Diglycidyl ether of bisphenol F	Y
Diheptyl phthalate	Y
Di-n-hexyl adipate	X
Dihexyl phthalate	Y
<i>Diisobutyl carbinol, see Nonyl alcohol (all isomers)</i>	
Diisobutylene	Y
Diisobutyl ketone	Y
Diisobutyl phthalate	X
<i>Diisodecyl phthalate, see Dialkyl (C7–C13) phthalates</i>	
Diisononyl adipate	Y
<i>Diisononyl phthalate, see Dialkyl (C7–C13) phthalates</i>	
Diisooctyl phthalate	Y
Diisopropylbenzene (<i>all isomers</i>)	X
Diisopropylnaphthalene	Y
Dimethyl adipate	X
<i>Dimethylbenzene, see Xylenes</i>	
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

Cargo name	IMO Annex II Pollution Category
Diphenyl/Diphenyl ether mixtures	X
Diphenyl ether	X
Diphenyl ether/Diphenyl phenyl ether mixture	X
Diphenylol propane-epichlorohydrin resins	X
Dipropylene glycol	Z
<i>Dipropylene glycol butyl ether, see Poly (2–8) alkylene glycol monoalkyl(C1–C6) ether</i>	
Dipropylene glycol dibenzoate	#
<i>Dipropylene glycol methyl ether, see Poly (2–8)alkylene glycol monoalkyl (C1–C6) ether</i>	
Dithiocarbamate ester (C7–C35)	X
Distillates:	
Flashed feed stocks	I
Straight run	I
Diundecyl phthalate	Y
Dodecane (all isomers)	Y
<i>Dodecanol, see Dodecyl alcohol</i>	
Dodecene (all isomers)	X
Dodecyl alcohol	Y
<i>Dodecyl benzene, see Alkyl (C9+) benzenes</i>	
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)	#
Ethane	LFG
<i>ETBE, see Ethyl tert-butyl ether</i>	
2-Ethoxyethyl acetate	Y
<i>Ethoxylated alkyloxy alkyl amine, see Ethoxylated long-chain (C16+) alkyloxyalkylamine</i>	
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
Ethylene	LFG
S-Ethyl dipropylthiocarbamate	Y
Ethylene carbonate	Z
Ethylene glycol	Y
Ethylene glycol acetate	Y
Ethylene glycol butyl ether acetate	Y
Ethylene glycol diacetate	Y
Ethylene glycol dibutyl ether	#
<i>Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate</i>	
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
<i>2-Ethylhexaldehyde, see Octyl aldehydes</i>	
2-Ethylhexanoic acid	Y
<i>Ethylhexoic acid, see 2-Ethylhexanoic acid</i>	
<i>2-Ethylhexanol, see Octanol (all isomers)</i>	
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

Cargo name	IMO Annex II Pollution Category
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
Glucitol/glycerol blend propoxylated (containing 10% or more amines)	Y
Glycerine	Z
Glycerine (83%), Dioxanedimethanol (17%) mixture	#
<i>Glycerol, see Glycerine</i>	
Glycerol ethoxylated	OS
Glycerol monooleate	Y
Glycerol polyalkoxylate	#
Glycerol, propoxylated and ethoxylated	Z
Glycerol/sucrose blend propoxylated and ethoxylated	Z
Glyceryl triacetate	Z
<i>Glycidyl ester of tridecyl acetic acid, see Glycidyl ester of C10 trialkylacetic acid</i>	
<i>Glycidyl ester of versatic acid, see Glycidyl ester of C10 trialkylacetic acid</i>	
Glycidyl ester of C10 trialkylacetic acid	Y
<i>Glycol diacetate, see Ethylene glycol diacetate</i>	
<i>Glycol triacetate, see Glyceryl triacetate</i>	
Glyoxal solution (40% or less)	Y
Glyphosate solution (not containing surfactant)	Y
Grape Seed Oil	Y
Groundnut acid oil	#
Groundnut oil	Y
Hazelnut oil	#
Heartcut distillate	I
<i>Heptadecane, see n-Alkanes (C10+)</i>	
Heptane (all isomers)	X
<i>Heptanoic acid, see n-Heptanoic acid</i>	
n-Heptanoic acid	Z
Heptanol (all isomers)	Y
Heptene (all isomers)	Y
Heptyl acetate	Y
<i>Herbicide (C15H22NO2Cl), see N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methylchloroacetanilide</i>	
<i>Hexadecanol, see Alcohol (C 13+)</i>	
1-Hexadecylnaphthalene/1,4-Bis(hexadecyl)naphthalene mixture	Y
<i>Hexaethylene glycol, see Polyethylene glycol</i>	
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
<i>Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated</i>	
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

Cargo name	IMO Annex II Pollution Category
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
<i>Magnesium nonyl phenol sulfide, see</i> Magnesium long-chain alkyl phenate sulfide (C8–C20)	
Maleic anhydride/sodium allylsulphonate copolymer solution	Z
Mango kernel oil	Y
2-Mercaptobenzothiazol (<i>in liquid mixtures</i>)	#
Methane	LFG
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
<i>Methoxy triglycol, see</i> 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
<i>Methyl butanol, see the amyl alcohols</i>	
Methylbutenol	Y
Methyl tert-butyl ether	Z
Methyl butyl ketone	Y
Methylbutynol	Z
Methyl butyrate	Y
Methylcyclohexane	Y
Methylcyclopentadiene dimer	Y
Methyl 3-(3,5 di-tert-butyl-4-hydroxyphenyl) propionate crude melt	[Y]
Methyl ethyl ketone	Z
Methyl formate	Z
N-Methylglucamine solution (70% or less)	Z
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)	Z
Methyl heptyl ketone	#
2-Methyl-2-hydroxy-3-butyne	Z
<i>Methyl isobutyl carbinol, see</i> Methyl amyl alcohol	
Methyl isobutyl ketone	Z
3-Methyl-3-methoxybutanol	Z
3-Methyl-3-methoxybutyl acetate	#
<i>Methyl pentene, see</i> Hexene (all isomers)	
<i>Methyl tert-pentyl ether, see</i> tert-Amyl methyl ether	
2-Methyl-1,3-propanediol	Z
Methyl propyl ketone	Z
2-Methylpyridine	Z
3-Methylpyridine	Z
4-Methylpyridine	Z
N-Methyl-2-pyrrolidone	Y
Methyl salicylate	Y
<i>Metolachlor, see</i> 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
<i>MTBE, see</i> Methyl tert-butyl ether	
Myrcene	X
Naphtha: † Aromatic (<i>having less than 10% Benzene</i>)	I

Cargo name	IMO Annex II Pollution Category
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
Nitroethane	Y
Nitroethane(80%)/Nitropropane(20%)	Y
Nitroethane, 1-Nitropropane (each 15% or more) mixture	Y
Nitropropane (60%)/Nitroethane (40%) mixture	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
<i>Nonyl phenol sulfide (90% or less), see Alkyl (C8–C40) phenol sulfide</i>	
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	#
<i>Octadecanol, see Alcohols (C13+)</i>	
<i>Octadecene, see the olefin or alpha-olefin entries</i>	
Octadeceneamide solution	#
Octamethylcyclotetrasiloxane	Y
Octane (all isomers)	X
Octanoic acid (all isomers)	Y
Octanol (all isomers)	Y
Octene (all isomers)	Y
<i>Octyl acetate, see n-Octyl acetate</i>	
n-Octyl acetate	Y
<i>Octyl alcohol (iso-, n-), see Octanol (all isomers)</i>	
Octyl aldehydes	Y
Octyl decyl adipate	Y
<i>Octyl phthalate, see Dioctyl phthalate</i>	
Oil, edible: Poppy seed	I
Oil, fuel:	
No. 1 (kerosene)	I
No. 1–D	I
No. 2	I
No. 2–D	I
No. 4	I
No. 5	I
No. 6	I
Oiticica oil	#
alpha-Olefins (C6–C18) mixtures	X
<i>alpha-Olefins (C13–C18) mixtures, see alpha-Olefins (C6–C18)</i>	
Olefins (C13+, all isomers)	Y
Olefin-Alkyl ester copolymer (molecular weight 2000+)	Y
Olefin mixtures (C5–C7)	Y
Olefin mixtures (C5–C15)	X
Olefin Mixture (C7–C9) C8 rich, stabilized	X
Oleic acid	Y
<i>Oleyl alcohol, see Alcohols (C13+)</i>	
Orange juice (concentrated)	OS
Palm kernel acid oil, methyl ester	#
Palm kernel olein	Y
Palm kernel stearin	Y
Palm mid-fraction	Y

Cargo name	IMO Annex II Pollution Category
Palm kernel fatty acid distillate	Y
Palm oil fatty acid methyl ester	Y
Palm olein	Y
Palm stearin	Y
Paraffin wax	Y
<i>n</i> -Paraffins (C10–C20), see n-Alkanes (C10+)	
Paraldehyde-ammonia reaction product	Y
Peanut oil, see Groundnut oil	
Peel oil (oranges and lemons)	#
Penetrating oil	I
<i>Pentadecanol</i> , see Alcohols (C13+)	
<i>1,3-Pentadiene</i>	Y
<i>1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures</i>	Y
<i>Pentaethylene glycol</i> , see Polyethylene glycols	
Pentane (all isomers)	Y
Pentanoic acid	Y
Pentene (all isomers)	Y
<i>n</i> -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	#
<i>Pinene</i> , see the <i>alpha</i> - or <i>beta</i> - isomers	
<i>alpha</i> -Pinene	X
<i>beta</i> -Pinene	X
Pine oil	X
Piperazine (70% or less)	Y
Polyalkyl(C18–C22) acrylate in xylene	Y
Polyalkylene glycols, polyalkylene glycol monoalkyl ethers mixtures	#
Polyalkylalkenaminesuccinimide, molybdenum oxysulfide	Y
<i>Polyalkylene glycol butyl ether</i> , see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether	Z
Including:	
<i>Diethylene glycol butyl ether</i>	
<i>Diethylene glycol ethyl ether</i>	
<i>Diethylene glycol n-hexyl ether</i>	
<i>Diethylene glycol methyl ether</i>	
<i>Diethylene glycol n-propyl ether</i>	
<i>Dipropylene glycol butyl ether</i>	
<i>Dipropylene glycol methyl ether</i>	
<i>Polypropylene glycol methyl ether</i>	
<i>Triethylene glycol butyl ether</i>	
<i>Triethylene glycol ethyl ether</i>	
<i>Triethylene glycol methyl ether</i>	
<i>Tripropylene glycol methyl ether</i>	
Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether acetate	Y
Including:	
<i>Diethylene glycol butyl ether acetate</i>	
<i>Diethylene glycol ethyl ether acetate</i>	
<i>Diethylene glycol methyl ether acetate</i>	
Polyalkylene oxide polyol	#
Polyalkyl(C10–C20) methacrylate	Y
Polyalkyl(C10–C18) methacrylate/ethylene-propylene copolymer mixture	Y
Polybutadiene, hydroxy terminated	#
Polybutene	Y
Polybutenyl succinimide	Y
Poly(2+)cyclic aromatics	X
<i>Polydimethylsiloxane</i> , 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
<i>Polyethylene glycol monoalkyl ether</i> , 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

Cargo name	IMO Annex II Pollution Category
Poly(4+)isobutylene (MW≤224)	X
Polyisobutylene (MW≤224)	Y
Polymerized esters	#
Polyolefin amide alkeneamine (C17+)	Y
<i>Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkeneamine (C17+)</i>	
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
<i>Polysiloxane</i>	Y
<i>Polypropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether</i>	
Polysiloxane	Y
Poppy oil	#
Potassium oleate	Y
Potassium salt of polyolefin acid	#
Propane	LFG
<i>2-Propene-1-aminium, N,N-dimethyl-N–2-propenyl-, chloride, homopolymer solution</i>	Y
<i>Propionaldehyde</i>	Y
<i>n-Propoxypropanol, see Propylene glycol monoalkyl ether</i>	
<i>n-Propyl acetate</i>	Y
<i>n-Propyl alcohol</i>	Y
<i>iso-Propylbenzene, see Propylbenzene (all isomers)</i>	
<i>n-Propylbenzene, see Propylbenzene (all isomers)</i>	
Propylbenzene (all isomers)	Y
[iso-propylcyclohexane]	[C]
Propylene	LFG
Propylene-Butylene copolymer	#
Propylene carbonate	Z
Propylene dimer	#
Propylene glycol	Z
<i>Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether</i>	
<i>Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether</i>	
<i>Propylene glycol methyl ether, see Propylene glycol monoalkyl ether</i>	
Propylene glycol methyl ether acetate	Z
Propylene glycol monoalkyl ether	Z
<i>Including:</i>	
<i>n-Propoxypropanol</i>	
<i>Propylene glycol n-butyl ether</i>	
<i>Propylene glycol ethyl ether</i>	
<i>Propylene glycol methyl ether</i>	
<i>Propylene glycol propyl ether</i>	
Propylene glycol phenyl ether	Z
<i>Propylene glycol propyl ether, see Propylene glycol monoalkyl ether</i>	
Propylene polymer (<i>in liquid mixtures</i>)	#
Propylene tetramer	X
Propylene trimer	Y
<i>Pseudocumene, see Trimethylbenzenes</i>	
Raisin seed oil	#
Rapeseed acid oil	#
Rape seed oil fatty acid methyl esters	Y
Residual oil	I
Road oil	I
Rosin	Y
Rosin oil	#
<i>Rum, see Alcoholic beverages, n.o.s.</i>	
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)	#

Cargo name	IMO Annex II Pollution Category
Sodium benzoate	Z
Sodium bromide solution (less than 50%)	Y
Sodium carboxylate solution	Y
Sodium long-chain alkyl salicylate (C13+)	#
Sodium methylate 21–30% in methanol	Y
Sodium thiocyanate solution (56% or less)	Y
Soya acid oil	#
Soybean oil fatty acid methyl ester	Y
Soybean oil (epoxidized)	#
Spindle oil	I
<i>Stearic acid, see Fatty acid (saturated, C13+)</i>	
<i>Stearyl alcohol, see Alcohols (C13+)</i>	
Sulfohydrocarbon (C3–C88)	Y
Sulfohydrocarbon, long-chain (C18+) alkylamine	#
Sulfolane	Y
Sulfurized fat (C14–C20)	Z
Sulfurized polyolefinamide alkene(C28–C250) amine	Z
<i>Sunflower oil, see Sunflower seed acid oil</i>	
Sunflower seed acid oil	#
Tall oil, crude	Y
Tall oil, distilled	Y
Tall oil, fatty acid	#
Tall oil pitch	Y
Tall oil soap, crude	Y
Tallow	Y
<i>Tallow alcohol, see Alcohols (C13+)</i>	
Tallow alkyl nitrile	#
Tallow fatty acid	Y
<i>TAME, see tert-Amyl methyl ether</i>	
<i>Tetradecanol, see Alcohols (C13+)</i>	
<i>Tetradecene, see alpha-Olefins (C6–C18) mixtures, Olefin mixtures (C5–C15), or Olefins (C13+, all isomers)</i>	
<i>Tetradecylbenzene, see Alkyl(C9+)benzenes</i>	
Tetraethylene glycol	Z
Tetraethyl silicate monomer/oligomer (20% in ethanol)	Z
Tetrahydronaphthalene	Y
Tetramethylbenzene (all isomers)	X
<i>Tetrapropylbenzene, see Alkyl(C9+)benzenes</i>	
Toluene	Y
Transformer oil	I
<i>Triarylphosphate, see Triisopropylated phenyl phosphates</i>	
Tributyl phosphate	Y
Tridecane	Y
Tridecanoic acid	Y
<i>Tridecanol, see Alcohols (C13+)</i>	
<i>Tridecene, see Olefins (C13+, all isomers)</i>	
Tridecyl acetate	Y
<i>Tridecylbenzene, see Alkyl(C9+)benzenes</i>	
Triethylbenzene	X
Triethylene glycol	Z
<i>Triethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether</i>	
Triethylene glycol butyl ether mixture	#
Triethylene glycol di-(2-ethylbutyrate)	#
Triethylene glycol ether mixture	#
<i>Triethylene glycol ethyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether</i>	
<i>Triethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether</i>	
Triethyl phosphate	Z
Triisooctyl trimellitate	#
Triisopropanolamine	Z
Triisopropylated phenyl phosphates	X
Trimethylamine solution (30% or less)	Z
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	#
<i>Tripropylene, see Propylene trimer</i>	
Tripropylene glycol	Z
<i>Tripropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether</i>	
1,3,5-Trioxane	Y
<i>Trixylenyl phosphate, see Trixylyl phosphate</i>	
Trixylyl phosphate	X

Cargo name	IMO Annex II Pollution Category
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
Vinyltoluene	Y
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.	
Wood lignin with sodium acetate/oxalate	Z
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:

- “#” = Noxious liquid substance 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 noxious liquid substance category has been assigned by the U.S. Coast Guard, in absence of one assigned by the IMO. The category is based on a GESAMP Hazard Profile or by analogy to a closely related product having a noxious liquid substance assigned.
- Entries in bold were added 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).
- “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 cargo” 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” = Noxious liquid substance categories under MARPOL Annex II.

PART 150—COMPATIBILITY OF CARGOES

■ 3. Revise the authority citation for part 150 to read as follows:

Authority: 46 U.S.C. 2103, 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, para. II (92.a), (92.b).

■ 4. Revise Table I to Part 150, as amended by the interim rule published on August 16, 2013 (78 FR 50148), effective January 16, 2017, as delayed at 79 FR 68132, November 14, 2014, 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		AIL	
Acetophenone	18		ACP	
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	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
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	20	3	AET	ALY/APV/APW
Alcohol (C6–C17) (secondary) poly (3–6) ethoxylates	20	3	AEA	AEB
Alcohol (C6–C17) (secondary) poly (7–12) ethoxylates	20	3	AEB	AEA
Alcohol (C12–C16) poly (1–6) ethoxylates	20	3	AED	AET/ALY/APW
Alcohol (C12–C16) poly (7–19) ethoxylates	20	3	APV	AET/ALY/APV
Alcohol (C12–C16) poly (20+) ethoxylates	20	3	APW	AET/ALY
Alcohol (C12–C15) poly (. . .) ethoxylate, see Alcohol (C12–C16) poly (. . .) ethoxylates.	20			
Alcohol polyethoxylates	20			AEA/AEB/AED/AET/APV/APW
Alcohol polyethoxylates, secondary	20			AEA/AEB
Alcoholic beverages, n.o.s.	20	3	ABV	
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
Alcohols (C13+)	20		ALY	ASY/AYK
<i>Including:</i>				
Cetyl Alcohol (hexadecanol)	20			
Oleyl Alcohol (octadecanol)	20			
Pentadecanol	20			
Tallow alcohol	20			
Tetradecanol	20			
Tridecanol	20			
Alkanes (C10–C26), linear and branched (flash point > 60 °C)	31	3	ABD.	
Alkanes (C6–C9)	31		ALK.	
<i>Including:</i>				
Heptanes	31			
Hexanes	31			
Nonanes	31			
Octanes	31			
n-Alkanes (C10+) (all isomers)	31		ALV	ALJ
<i>Including:</i>				
Decanes	31			
Dodecanes	31			
Heptadecanes	31			
Tridecanes	31			
Undecanes	31			
iso- & cyclo-Alkanes (C10–C11)	31		AKI.	
iso- & cyclo-Alkanes (C12+)	31		AKJ.	
Alkane (C14–C17) sulfonic acid, sodium salt solutions, see Sodium alkyl (C14–C17) sulfonates (60–65% solution).	34		AKA	SAA (AKE/SSU)
Alkaryl polyether (C9–C20)	41		AKP.	
Alkenoic acid, polyhydroxy ester borated	0	1, 3	AAY.	
Alkenyl (C11+) amide	10		AKM.	
Alkenyl (C16–C20) succinic anhydride	11		AAH.	
Alkyl acrylate-Vinyl pyridine copolymer in Toluene	32		AAP.	
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomer).	34		APD.	
Alkylated (C4–C9) hindered phenols	21	3	AYO.	
Alkyl (C3–C4) benzenes	32		AKC	
<i>Including:</i>				
Butylbenzenes	32			
Cumene	32			
Propylbenzenes	32			
Alkyl (C5–C8) benzenes	32		AKD.	
<i>Including:</i>				
Amylbenzenes	32			
Heptylbenzenes	32			
Hexylbenzenes	32			
Octylbenzenes	32			

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Alkyl (C9+) benzenes	32	.....	AKB.	
<i>Including:</i>				
<i>Decylbenzenes</i>	32			
<i>Dodecylbenzenes</i>	32			
<i>Nonylbenzenes</i>	32			
<i>Tetradecylbenzenes</i>	32			
<i>Tetrapropylbenzenes</i>	32			
<i>Tridecylbenzenes</i>	32			
<i>Undecylbenzenes</i>	32			
Alkyl (C8+) amine, Alkenyl (C12+) acid ester mixture	34	.....	AAA.	
Alkyl amine (C17+)	7	.....	AKY.	
Alkyl benzene distillation bottoms	0	1, 3	ABB.	
Alkylbenzene mixtures (containing at least 50% of Toluene)	32	3	AZT.	
Alkylbenzene, Alkylindane, Alkylindene mixture (each C12–C17)	32	.....	AIH.	
Alkyl (C11–C17) benzene sulfonic acid	0	1, 2, 3	ABN	ABS/ABQ
Alkylbenzene sulfonic acid (less than 4%)	0	1	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 ester copolymer (C4–C20)	34	.....	AES	AEQ
Alkyl ester copolymer in mineral oil	34	.....	AEQ	AES
Alkyl (C7–C9) nitrates	34	2	AKN	ONE
Alkyl (C7–C11) phenol poly (4–12) ethoxylates	40	.....	APN	NPE
Alkyl (C4–C9) phenols	21	.....	AYI	BLT/BTP/NNP/OPH
Alkyl phenol sulfide (C8–C40), <i>see</i> Alkyl (C8–C40) phenol sulfide	34	.....	.....	AKS
Alkyl (C8–C40) phenol sulfide	34	.....	AKS.	
Alkyl (C9–C15) phenyl propoxylate	40	.....	AXL.	
Alkyl (C8–C9) phenylamine in aromatic solvents	9	.....	ALP.	
Alkyl phthalates, <i>see</i> individual phthalates	34	.....	AYS.	
Alkyl polyglucoside solution, <i>see</i> individual polyglucoside solution	43	.....	AGD	AGL/AGM AGN/AGO AGP
Alkyl (C8–C10) polyglucoside solution (65% or less)	43	3	AGL	AGD/AGM/AGN/AGO/ AGP
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 (C12–C14) polyglucoside solution (55% or less)	43	3	AGM	AGD/AGL/AGN/AGO/AGP
Alkyl (C12–C16) propoxyamine ethoxylates	8	3	AXE	LPE
Alkyl (C10–C20), saturated and unsaturated) phosphite	34	.....	AKL.	
Alkyl succinic anhydride	11	.....	AUA.	
Alkyl sulfonic acid ester of phenol	34	.....	AKH.	
Alkyl toluene	32	.....	AYL	AUS
Alkyl (C18+) toluenes	32	3	AUS	AYL
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, <i>see</i> "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).	5	3	AHN.	
Aluminum sulfate solution	43	2	ASX	ALM
Amine C–6, morpholine process residue	9	.....	AOI.	
Aminoethyldiethanolamine/Aminoethylethanolamine solution	8	.....	ADY.	
2-(2-Aminoethoxy)ethanol	8	.....	AEX.	
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), <i>see</i> Ammonium hydroxide	6	.....	.....	AMH
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, <i>see</i> also Lignin liquor	43	.....	ALG	LNL

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Ammonium nitrate solution (45% or less)	0	1	AND	AMN/ANR/ANW
Ammonium nitrate solution (93% or less)	0	1	ANW	AMN/AND/ANR
<i>Ammonium nitrate/Urea solution (containing Ammonia), see Urea/Ammonium nitrate solution (containing 1% or more Ammonia).</i>	6			UAS (ANU/UAT/UAV/ UAV)
<i>Ammonium nitrate/Urea solution (not containing Ammonia), see Urea/Ammonium nitrate solution (containing less than 1% Ammonia).</i>	43			UAU (ANU/UAS/UAT/ UAV)
<i>Ammonium phosphate/Urea solution, see Urea/Ammonium phosphate solution.</i>	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	
Amyl alcohol, primary	20	3	APM	AAI/AAL/AAN/IAA
n-Amyl alcohol	20	3	AAN	AAI/AAL/APM/ASE/IAA
sec-Amyl alcohol	20	3	ASE	AAI/AAL/AAN/APM/IAA
tert-Amyl alcohol	20	3	AAL	AAI/APM/ASE/IAA
tert-Amyl methyl ether	41		AYE	
<i>Amyl methyl ketone, see Methyl amyl ketone</i>	18		AMJ	MAK (AMK)
<i>Amylene, see Pentene (all isomers)</i>	30		AMW	PTX (AMX/AMZ/PTE)
<i>tert-Amylenes, see Pentene</i>	30		AMZ	PTX (AMW)
Aniline	9		ANL.	
Animal and Fish oils, n.o.s.	34		AFN.	
<i>Including:</i>				
<i>Cod liver oil</i>	34			
<i>Lanolin</i>	34			
<i>Neatsfoot oil</i>	34			
<i>Pitchard oil</i>	34			
<i>Sperm oil</i>	34			
Animal and Fish acid oils and distillates, n.o.s.	34		AFA.	
<i>Including:</i>				
<i>Animal acid oil</i>	34			
<i>Fish acid oil</i>	34			
<i>Lard acid oil</i>	34			
<i>Mixed acid oil</i>	34			
<i>Mixed general acid oil</i>	34			
<i>Mixed hard acid oil</i>	34			
<i>Mixed soft acid oil</i>	34			
<i>Anthracene oil (Coal tar fraction), see Coal tar</i>	33		AHO	COR
Apple juice	43		APJ.	
Argon, liquefied	0	1	ARG.	
Aryl polyolefin (C11–C50)	30		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)	33	3	AVA	GAK/GAV
Barium long-chain alkaryl (C11–C50) 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/Toluene/Xylene mixtures (having 10% Benzene or more)	32		BTX	BHB/BNZ/PYG/TOL/XLX/ XLM/XLO/XLP
Benzenesulfonyl chloride	0	1, 2	BSC.	
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

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume)	20	2, 3	BIJ	BIF/BIG/BIH/BII/BIK
Bis (2-ethylhexyl) terephthalate	34	.....	DHH.	
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	16	.....	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, <i>see</i> Butylene glycol	20	.....	BDO	BUG
2-Butanone, <i>see</i> Methyl ethyl ketone	18	2	.....	MEK
Butene oligomer	30	.....	BOL.	
<i>Butene, see</i> Butylenes (all isomers)	30	.....	.....	BUT/IBL
2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)	20	.....	.....
Butyl acetate (all isomers)	34	3	BAX	BCN/BTA/BYA/IBA
Butyl acrylate (all isomers)	14	3	BAR	BAI/BTC
Butyl alcohol (all isomers)	20	2, 3	BAY	BAN/BAS/BAT/IAL
<i>Butyl alcohol (iso-, n-, sec-, tert-), see</i> Butyl alcohol (all isomers)	20	2	.....	BAN/BAS/BAT/BAY/IAL
Butylamine (all isomers)	7	3	BTY	BAM/BTL/BUA/IAM
<i>Butylbenzene (all isomers), see</i> Alkyl(C3–C4)benzenes	32	3	BBE	AKC
Butyl benzyl phthalate	34	.....	BPH.	
Butyl butyrate (all isomers)	34	3	BBA	BIB/BUB
n-Butyl ether	41	3	BTE.	
n-Butyl formate	34	.....	BFN	BFI/BFO
Butyl heptyl ketone	18	.....	BHK.	
Butyl methacrylate	14	.....	BMH	BMI/BMN
<i>Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture, see</i> Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture.	14	3	.....	DER (BMH/BMI/BMN/CEM)
<i>Butyl methyl ketone, see</i> Methyl butyl ketone	18	2	.....	MBJ (MBK/MIK)
Butyl phenol, Formaldehyde resin in Xylene	32	.....	.....
n-Butyl propionate	34	.....	BPN.	
Butyl stearate	34	.....	BST.	
Butyl toluene	32	.....	BUE.	
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	14	3	DER	BMH/BMI/BMN/CEM
Butylene glycol	20	2	BUG	BDO
1,2-Butylene oxide	16	.....	BTO.	
Butylenes (all isomers)	30	.....	BTN	IBL
Butyraldehyde (all isomers)	19	3	BAE	BAD/BTR
Butyric acid	4	.....	BRA	IBR
gamma-Butyrolactone	0	1, 2	BLA	
C9 Resinfeed (DSM)	32	2	CNR.	
<i>Calcium alkaryl sulfonate (C11–C50), see</i> 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.	
<i>Calcium alkyl salicylate, see</i> Calcium long-chain alkyl salicylate (C13+), Calcium long-chain alkyl (C18–C28) salicylate, or Calcium alkyl (C10–C28) salicylate.	34	.....	.....	CAJ/CAK/CAZ
<i>Calcium bromide solution, see</i> Drilling brines .....	.....	.....	CBI	DRB
<i>Calcium bromide/Zinc bromide solution, see</i> 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
Calcium lignosulfonate solutions, <i>see also</i> Lignin liquor	43	.....	CLL	LNL
Calcium long-chain alkaryl sulfonate (C11–C50)	34	.....	CAY.	
<i>Calcium long-chain alkyl (C8–C40) phenate, see</i> 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 (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 phenate sulfide (C8–C40)	34	.....	CPI.	
Calcium long-chain alkyl phenolic amine (C8–C40)	9	.....	CPQ.	
Calcium long-chain alkyl (C18–C28) salicylate	34	3	CAJ.	
Calcium long-chain alkyl salicylate (C13+)	34	.....	CAK	CAJ/CAZ
Calcium nitrate solutions (50% or less)	34	3	CNU	CNT
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	34	.....	CLM.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Calcium salts of fatty acids	34		CFF.	
Calcium stearate	34		CSE.	
Calcium sulfonate/Calcium carbonate/Hydrocarbon solvent mixture	33		CSH.	
Camelina oil, <i>see</i> Oil, misc.: Camelina	34	3	CEL.	
Camphor oil (light)	18		CPO.	
Canola oil, <i>see</i> Oil, edible: Rapeseed, (low erucic acid containing less than 4% free fatty acids).	34			ORO (ORP)
Caprolactam solution, <i>see</i> epsilon-Caprolactam (molten or aqueous solutions).	22		CLS.	
epsilon-Caprolactam (molten or aqueous solutions)	22	3	CLU	CLS
Caramel solutions	43		CML.	
Carbolic oil	21		CBO.	
Carbon dioxide (high purity)	0	1	CDH	CDO/CDQ
Carbon dioxide (reclaimed quality)	0	1	CDQ	CDH/CDO
Carbon dioxide, liquefied	0	1	CDO	CDH/CDQ
Carbon disulfide	38		CBB.	
Carbon tetrachloride	36	2	CBT	CBU
Cashew nut shell oil (untreated), <i>see</i> Oil, misc.: Cashew nut shell (untreated).	34		OCN.	
Castor oil, <i>see</i> 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	43	3	CSM.	
Cetyl alcohol (hexadecanol), <i>see</i> Alcohols (C13+)	20			ALY (ASY/AYL)
Cetyl/Stearyl alcohol, <i>see</i> Alcohols (C13+)	20			ALY (ASY/AYL)
Cetyl/Eicosyl methacrylate mixture	14		CEM.	
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	2	CRB.	
Chlorodifluoromethane, <i>see</i> monochlorodifluoromethane	36		MCF.	
2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution	0	1	CET.	
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one	18	2	CDP.	
2-or 3-Chloropropionic acid	4		CPM	CLA/CLP
Chloroform	36		CRF.	
Chlorohydrins (crude)	17	3	CHD.	
4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution	9		CDM.	
o-Chloronitrobenzene	42		CNO	CNP
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 solutions	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, <i>see</i> Naphtha: Coal tar solvent	33		CDL	NCT (CTU)
Coal tar naphtha solvent, <i>see</i> Naphtha: Coal tar solvent	33			NCT (CDL/CTU)
Coal tar pitch (molten)	33	3	CTP.	
Coal tar, high temperature	33		CHH.	
Cobalt naphthenate in solvent naphtha	34		CNS.	
Cocoa butter, <i>see</i> Oil, edible: Cocoa butter	34			OCB (VEO)
Coconut oil, <i>see</i> Oil, edible: Coconut	34	2		OCC (VEO)
Coconut oil, fatty acid, <i>see</i> Oil, misc: Coconut fatty acid	34	2		CFA
Coconut oil, fatty acid methyl ester, <i>see</i> Oil, misc: Coconut fatty acid methyl ester.	34	3		OCM
Copper salt of long-chain (C17+) alkanolic acid	34		CUS	CFT
Copper salt of long-chain (C3–C16) fatty acid	34		CFT	CUS
Corn oil, <i>see</i> Oil, edible: Corn	34			OCO (VEO)
Corn syrup	43		CSY.	
Cotton seed oil, <i>see</i> Oil, edible: Cotton seed	34			OCS (VEO)
Cotton seed oil, fatty acid, <i>see</i> Oil, misc.: Cotton seed oil, fatty acid	34		CFY.	
Creosote	21	2	CCW	CCT/CWD

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
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
<i>Cresols with 5% or more Phenol, see Phenol</i>	21		CFP	PHN (CFO/CRL/CRO/ CRS/CSO)
<i>Cresols with less than 5% Phenol, see Cresols (all isomers)</i>	21		CFO ...	CRS (CFP/CRL/CRO/ CSO)
<i>Cresylate spent caustic, see Cresylic acid, sodium salt solution</i>	5	2	CSC	CYD
Cresylic acid	21		CRY.	
Cresylic acid, dephenolized	21		CAD	CRY/CYN
Cresylic acid tar	21		CRX.	
Cresylic acid with 5% or more phenol	21		CYN	CAD/CRY
Cresylic acid, sodium salt solution	5	2	CYD	CSC
Crotonaldehyde	19	2	CTA.	
<i>Crude isononylaldehyde, see Isononylaldehyde (crude)</i>	19			INC
<i>Crude isopropanol, see Isopropanol alcohol, crude</i>	20			IPB (IPA/PAL)
<i>Crude piperazine, see Piperazine, crude</i>	7			PZC (PPZ/PIZ)
<i>Cumene, see Propylbenzene (all isomers)</i>	32		CUM	AKD (PBY/PBZ)
1,5,9-Cyclododecatriene	30		CYT.	
Cycloheptane	31		CYE.	
Cyclohexane			CHX.	
Cyclohexanol	20		CHN.	
Cyclohexanone	18	2	CCH.	
Cyclohexanone/Cyclohexanol mixtures	18	2	CYX.	
Cyclohexyl acetate	34		CYC.	
Cyclohexylamine	7		CHA.	
Cyclopentadiene/Styrene/Benzene mixture	30		CSB.	
1,3-Cyclopentadiene dimer (molten)	30	3	CPD	DPT/DPV
Cyclopentane	31		CYP.	
Cyclopentene	30		CPE.	
p-Cymene	32		CMP.	
Decahydronaphthalene	33		DHN.	
Decaldehyde	19		DAY	IDA/DAL
<i>Decane (all isomers), see n-Alkanes (C10+) (all isomers)</i>	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
<i>Decylbenzene, see Alkyl (C9+) benzenes</i>	32		DBZ	AKB
Decyloxytetrahydrothiophene dioxide	0	1	DHT.	
Detergent alkylate	32		DKY	AKB/DBZ/DDB/TDB/TRB/ UDB
<i>Dextrose solution, see Glucose solution</i>	43		DTS	GLU
Diacetone alcohol	20	2	DAA.	
<i>Dialkyl (C9–C10) phthalates, see Dialkyl (C7–C13) phthalates</i>	34		DLK	DLH (DAP/DHL/DHP/DID/ DIE/DIF/DIN/DIO/DIT/ DOP/DPA/DTP/DUP)
Dialkyl thiophosphates sodium salts solution	34	3	DYH.	
<i>Dialkyl (C10–C14) benzenes, see Alkyl (C9+) benzenes</i>	32		DAB	AKB
Dialkyl (C8–C9) diphenylamines	9		DAQ.	
Dialkyl (C7–C13) phthalates	34		DAH.	
<i>Including:</i>				
<i>Di-(2-ethylhexyl) phthalate</i>	34			
<i>Diheptyl phthalate</i>	34			
<i>Dihexyl phthalate</i>	34			
<i>Diisooctyl phthalate</i>	34			
<i>Dioctyl phthalate</i>	34			
<i>Diisodecyl phthalate</i>	34			
<i>Diisononyl phthalate</i>	34	2		
<i>Dinonyl phthalate</i>	34			
<i>Ditridecyl phthalate</i>	34			
<i>Diundecyl phthalate</i>	34			
Dibromomethane	36		DBH.	
<i>Dibutyl carbinol, see Nonyl alcohol (all isomers)</i>	20			NNS (DBC/NNI/NNN)
Dibutyl hydrogen phosphonate	34		DHD.	
Dibutyl phthalate	34		DPA	DIT
Dibutyl terephthalate	34	3	DYE.	
Dibutylamine	7		DBA.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Dibutylphenols	21		DBT	DBF/DBV/DBW
Di-tert-butylphenol	21		DBF	DBT/DBV/DBW
2,4-Di-tert-butylphenol	21		DBV	DBF/DBT/DBW
2,6-Di-tert-butylphenol	21	3	DBW	DBF/DBT/DBV
Dichlorobenzene (all isomers)	36	3	DBX	DBM/DBO/DBP
3,4-Dichloro-1-butene	36		DCD	DCB
Dichlorodifluoromethane	36		DCF.	
1,1-Dichloroethane	36		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.	
Dichloropropane	36		DPX.	
1,1-Dichloropropane	36		DPB	DPC/DPL/DPP/DPX
1,2-Dichloropropane	36	2, 3	DPP	DPB/DPC/DPL/DPX
1,3-Dichloropropane	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, Resin Grade, 81–89%	30	3	DPV	CPD/DPT
<i>Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)</i>	30		DPT	CPD (DPV)
Diethanolamine	8	2	DEA.	
<i>Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution.</i>	43		DZZ	DDE
Diethylamine	7		DEN.	
Diethylaminoethanol	8		DAE.	
2,6-Diethylaniline	9		DMN	DIY
Diethylbenzene	32		DEB.	
Diethyl ether	41		EET.	
<i>Diethyl hexanol, see Decyl alcohol (all isomers)</i>	20			DAX
Di-(2-ethylhexyl) adipate	34		DEH.	
Di-(2-ethylhexyl) phosphoric acid	1		DEP.	
<i>Di-(2-ethylhexyl) phthalate, see Dialkyl (C7–C13) phthalate</i>	34		DIE	DAH
Di-(2-ethylhexyl) terephthalate	34		DHH.	
Diethylene glycol	40	2	DEG.	
<i>Diethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40		DME	PAG
<i>Diethylene glycol butyl ether acetate, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetate.</i>	34		DEM	PAF
Diethylene glycol dibenzoate	34		DGZ.	
Diethylene glycol dibutyl ether	40		DIG.	
Diethylene glycol diethyl ether	40		DGS.	
<i>Diethylene glycol ethyl ether, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.</i>	40		DGE	PAG
<i>Diethylene glycol ethyl ether acetate, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetates.</i>	34		DGA	PAF
<i>Diethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40		DGM	PAG
<i>Diethylene glycol methyl ether acetate, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetate.</i>	34		DGR	PAF
<i>Diethylene glycol n-hexyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40		DHE	PAG
Diethylene glycol phenyl ether	40		DGP.	
Diethylene glycol phthalate	34		DGL.	
<i>Diethylene glycol propyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40		DGO	PAG
Diethylenetriamine	7	2	DET.	
Diethylenetriamine pentaacetic acid, pentasodium salt solution	43		DYS.	
<i>Diethylethanolamine, see Diethylaminoethanol</i>	8			DAE
Diethyl phthalate	34		DPH.	
Diethyl sulfate			DSU.	
Diglycidyl ether of Bisphenol A	16		BDE.	
Diglycidyl ether of Bisphenol F	16		DGF.	
<i>Diheptyl phthalate, see Dialkyl (C7–C13) phthalate</i>	34		DHP	DAH
Di-n-hexyl adipate	34		DHA.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
<i>Dihexyl phthalate, see</i> Dialkyl (C7–C13) phthalate	34		DHL.	
<i>Diisobutyl carbinol, see</i> Nonyl alcohol (all isomers)	20		DBC	NNS
Diisobutyl ketone	18		DIK.	
Diisobutyl phthalate	34		DIT	DPA
Diisobutylamine	7		DBU.	
Diisobutylene	30		DBL.	
<i>Diisodecyl phthalate, see</i> Dialkyl (C7–C13) phthalates	34		DID	DAH
Diisononyl adipate	34		DNY.	
<i>Diisononyl phthalate, see</i> Dialkyl (C7–C13) phthalates	34	2	DIN	DAH
<i>Diisooctyl phthalate, see</i> Dialkyl (C7–C13) phthalate	34		DIO	DAH/(DIE/DOP)
Diisopropanolamine	8		DIP.	
Diisopropyl naphthalene	32		DII.	
Diisopropylamine	7		DIA	DNA
Diisopropylbenzene (all isomers)	32		DIX.	
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	5		DDH.	
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
<i>Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see</i> 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less).	0	1	DAD	DDA (DSX)
<i>Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see</i> 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution.	9			CDM
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
2,6-Dimethylaniline	9		DMM ...	DDL
<i>Dimethylbenzene, see</i> Xylenes	32	2		XLX/XLM/XLO/XLP
Dimethylcyclosiloxane hydrolyzate	34		DXZ.	
N,N-Dimethylcyclohexylamine	7		DXN.	
Dimethyl disulfide	0	1, 2, 3	DSK.	
<i>Dimethyldodecylamine, see</i> N,N-Dimethyldodecylamine	7			DDY
N,N-Dimethyldodecylamine	7		DDY.	
Dimethylethanolamine	8		DMB.	
Dimethyl ether	41		DIM.	
Dimethylformamide	10	2	DMF.	
Dimethyl furan	41		DFU.	
Dimethyl glutarate	34		DGT.	
Dimethyl hydrogen phosphite	34	2	DPI.	
Dimethyl naphthalene sulfonic acid, sodium salt solution	34	2	DNS.	
Dimethyl octanoic acid	4		DMO.	
Dimethyl phthalate	34		DTL.	
<i>Dimethylpolysiloxane, see</i> Polydimethylsiloxane	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
<i>Dinonyl phthalate, see</i> Dialkyl (C7–C13) phthalates	34		DIF	DAH
<i>Diocetyl phthalate, see</i> Dialkyl (C7–C13) phthalates	34		DOP	DAH (DIE/DIO)
1,4-Dioxane	41		DOX.	
Dipentene	30		DPN.	
Diphenyl			DIL.	
Diphenylamine (molten)	9		DAG	DAM
Diphenylamine, reaction product with 2,2,4-trimethylpentene	9		DAK.	
Diphenylamines, alkylated			DAJ.	
Diphenyl/Diphenyl ether mixture	33		DDO.	
Diphenyl ether	41		DPE.	
<i>Diphenyl ether/Biphenyl ether mixture, see</i> Diphenyl/Diphenyl ether mixture	41			DDO
Diphenyl ether/Diphenyl phenyl ether mixture	41		DOB.	
Diphenylmethane diisocyanate	12	2	DPM.	
<i>Diphenyl oxide, see</i> Diphenyl ether	41			DPE
Diphenylol propane-Epichlorohydrin resins	0	1	DPR.	
Di-n-propylamine	7		DNA	DIA
Dipropylene glycol	40		DPG.	
<i>Dipropylene glycol butyl ether, see</i> Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DBG	PAG
Dipropylene glycol dibenzoate	34		DGY.	
<i>Dipropylene glycol methyl ether, see</i> Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DPY	PAG
Distillates, flashed feed stocks	33		DFF.	
Distillates, straight run	33		DSR.	
Dithiocarbamate ester (C7–C35)	34		DHO.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Ditridecyl adipate	34		DTY.	
<i>Ditridecyl phthalate, see</i> Dialkyl (C7–C13) phthalates	34		DTP	DAH
<i>Diundecyl phthalate, see</i> Dialkyl (C7–C13) phthalates	34		DUP	DAH
<i>Dodecane (all isomers), see</i> Alkanes (C10+) (all isomers)	31		DOF	ALV (ALJ/DOC)
tert-Dodecanethiol	0	1, 2	DDL	LRM
Dodecene (all isomers)	30	3	DOZ	DDC/DOD
<i>Dodecanol (all isomers), see</i> Dodecyl Alcohol (all isomers)	20	2	DDN	LAL
2-Dodecenylsuccinic acid, dipotassium salt solution	34		DSP.	
Dodecyl alcohol (all isomers)	20	2	DDN	ASK/ASY/LAL
Dodecylamine/Tetradecylamine mixture	7	2	DTA.	
<i>Dodecylbenzene, see</i> Alkyl (C9+) benzenes	32		DDB	AKB
Dodecyltrimethylamine/Tetradecyltrimethylamine 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.	
Dodecylbenzenesulfonic acid	0	1, 2	DSA.	
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	16		EPN.	
Ethane	31		ETH.	
Ethanolamine	8		MEA.	
<i>2-Ethoxyethanol, see</i> Ethylene glycol monoalkyl ethers	40		EEO	EGC (EGE)
<i>ETBE, see</i> Ethyl tert-butyl ether	41			EBE
2-Ethoxyethyl acetate	34	2	EEA	EGA
Ethoxylated alkyloxy alkyl amine	8		ELM.	
<i>Ethoxylated alcohols, C11–C15, see</i> alcohol polyethoxylates	20			AEA/AEB/AED/AET/APV/APW/APX
Ethoxylated long-chain (C16+) alkyloxyalkylamine	8		ELA.	
Ethoxylated tallow alkyl amine	7		TAY	TAG/TAR
Ethoxylated tallow alkyl amine, glycol mixture	7		TAG	TAR/TAY
Ethoxylated tallow amine (≤95%)	7	3	TAR	TAG/TAY
<i>Ethoxy triglycol, see</i> 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-Ethylbutylamine	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.	
Ethyleneamine EA 1302	7	2	EMX.	
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.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Ethylene glycol butyl ether acetate	34	.....	EMA.	
Ethylene glycol diacetate	34	.....	EGY.	
Ethylene glycol dibutyl ether	40	.....	EGB.	
Ethylene glycol ethyl ether acetate	34	2	EGA	EEA
Ethylene glycol methyl ether acetate	34	.....	EGT.	
<i>Ethylene glycol butyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EGM	EGC
<i>Ethylene glycol tert-butyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EGG	EGC
<i>Ethylene glycol isobutyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	.....	EGC (EGG/EGM)
<i>Ethylene glycol methyl butyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EMB	EGC
<i>Ethylene glycol ethyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EGE	EGC/EEO
<i>Ethylene glycol hexyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EGH	EGC
<i>Ethylene glycol methyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EME	EGC
<i>Ethylene glycol n-propyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EGN	EGC (EGI/EGP)
<i>Ethylene glycol propyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EGP	EGC/EGI/EGN
<i>Ethylene glycol isopropyl ether, see Ethylene glycol monoalkyl ethers</i>	40	.....	EGI	EGC (EGG/EGM)
Ethylene glycol monoalkyl ethers	40	2	EGC.	
Including:				
<i>Ethylene glycol butyl ether</i>	40	.....	
<i>Ethylene glycol ethyl ether</i>	40	.....	
<i>Ethylene glycol isobutyl ether</i>	40	.....	
<i>Ethylene glycol methyl butyl ether</i>	40	.....	
<i>Ethylene glycol tert-butyl ether</i>	40	.....	
<i>Ethylene glycol hexyl ether</i>	40	.....	
<i>Ethylene glycol methyl ether</i>	40	.....	
<i>Ethylene glycol propyl ether</i>	40	.....	
<i>Ethylene glycol isopropyl ether</i>	40	.....	
Ethylene glycol phenyl ether	40	.....	EPE.	
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	40	.....	EDX.	
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.	
<i>Ethyl ether, see Diethyl ether</i>	41	.....	.....	EET
Ethyl-3-ethoxypropionate	34	.....	EEP.	
<i>2-Ethylhexaldehyde, see Octyl aldehydes</i>	19	.....	EHA	OAL (OLX)
<i>2-Ethylhexanoic acid, see Octanoic acid (all isomers)</i>	4	.....	EHO	OAY (OAA)
<i>2-Ethylhexanol, see Octanol</i>	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.	
2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline	9	.....	EEM.	
o-Ethyl phenol	21	.....	EPL.	
Ethyl propionate	34	.....	EPR.	
2-Ethyl-3-propylacrolein	19	2	EPA.	
Ethyl toluene	32	.....	ETE.	
Fatty acid methyl esters	34	3	FME.	
Fatty acids, (C8–C10)	34	3	FDS.	
Fatty acids, (C12+)	34	3	FDT	FAB/FAD/FAI/FDI
Fatty acids (saturated, C13+)	34	.....	FAB	FAD
<i>Fatty acids (saturated, C14+), see Fatty acids (saturated C13+)</i>	34	.....	FAD	FAB
Fatty acids, (C16+)	34	3	FDI.	
Fatty acids, essentially linear (C6–C18) 2-ethylhexyl ester	34	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.	
<i>Fish oil, see Oil, edible: Fish</i>	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.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Formic acid	4	2	FMA	FMB
Formic acid (85% or less)	4	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.	
<i>Fuming sulfuric acid, see Oleum</i>	0	2		
Furfural	19		FFA.	
Furfuryl alcohol	20	2	FAL.	
<i>Gas oil, cracked, see Oil, misc: Gas, cracked</i>	33			GOC
Gasoline blending stock, alkylates	33		GAK.	
Gasoline blending stock, reformates	33		GRF.	
Gasolines:				
Automotive (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.	
<i>Gasolines: Pyrolysis (containing Benzene), see Pyrolysis gasoline (containing Benzene).</i>	32		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
<i>Glycerol, see Glycerine</i>	20	2		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 C10 trialkyl acetic acid	34		GLU	GLT
<i>Glycidyl ester of tertiary carboxylic acid, see Glycidyl ester of C10 trialkyl acetic acid.</i>	34		GLT	GLU
<i>Glycidyl ester of tridecyl acetic acid, see Glycidyl ester of C10 trialkyl acetic acid.</i>	34		GLT	GLU
<i>Glycidyl ester of Versatic acid, see Glycidyl ester of C10 trialkyl acetic acid</i>	34		GLT	GLU
Glycine, sodium salt solution	7		GSS.	
<i>Glycol diacetate, see Ethylene glycol diacetate</i>	34			EGY
Glycol mixture, crude	20		GMC.	
<i>Glycol triacetate, see Glyceryl triacetate</i>	34			GCT
Glycolic acid solution (70% or less)	4	3	GLC.	
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
<i>Grape Seed Oil, see Oil, edible: Grape Seed</i>	34			OGN (VEO)
<i>Groundnut Oil, see Oil, edible: Groundnut</i>	34			OHN (VEO)
<i>Hazelnut oil, see Oil, edible: Hazelnut</i>	34			ALV (ALJ)
<i>Heptadecane (all isomers), see Alkanes (C10+) (all isomers)</i>	31			ALK (HPI/HPT)
<i>Heptane (all isomers), see Alkanes (C6–C9)</i>	31		HMX	HEP
n-Heptanoic acid	4		HEN	HTN
Heptanol (all isomers)	20		HTX	THE
Heptene (all isomers)	30	2, 3	HPX	
Heptyl acetate	34		HPE.	
<i>Heptylbenzenes, see Alkyl (C5–C8) benzenes</i>	32			AKD
<i>Herbicide (C15–H22–NO2–Cl), see Metolachlor</i>	34			MCO
<i>Hexadecanol, see Alcohols (C13+)</i>	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
<i>Hexaethylene glycol, see Polyethylene glycol</i>	20		HMG	PEG
Hexamethylene diisocyanate	12		HMS	HDI
Hexamethylene glycol	20		HMG	HXG
Hexamethylenediamine (molten)	7	3	HME	HMD/HMC
Hexamethylenediamine adipate (50% in water)	43		HAM	HAN
Hexamethylenediamine adipate solution	43		HAN	HAM
Hexamethylenediamine solution	7		HMC	HMD/HME
Hexamethyleneimine	7		HMI.	
Hexamethylenetetramine solutions	7		HTS	HMT

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
<i>Hexane (all isomers), see Alkanes (C6–C9)</i>	31	2	HXS	ALK (IHA/HXA)
1,6-Hexanediol, distillation overheads	4	2,3	HDO	
Hexanoic acid	4		HXO	
Hexanol	20		HXM	HEW/HEZ/HXN
Hexene (all isomers)	30	2, 3	HEX	HXE/HXT/HXU/HXV/MPN/ MTN
Hexyl acetate	34		HAE	
<i>Hexylbenzenes, see Alkyl (C5–C8) benzenes</i>	32			AKD
<i>Hexylene glycol, see hexamethylene glycol</i>	20		HXG	HMG
<i>Hog grease, see Lard</i>	34			LRD
Hydrochloric acid	1		HCL	
<i>Hydrofluorosilicic acid, (25% or less), see Fluorosilicic acid (30% or less)</i> ...	1			FSJ (FSK/FSL/HFS)
bis (Hydrogenated tallow alkyl) methyl amines	7		HTA	
Hydrogen peroxide solutions (over 60% but not over 70% by mass)	0	1, 3	HPS	HPN/HPO
Hydrogen peroxide solutions (over 8% but not over 60% by mass)	0	1, 3	HPN	HPO/HPS
alpha-Hydro-omega-hydroxytetradeca (oxytetramethylene)	40		HTO	PYS/PYT
Hydrogenated starch hydrolysate	0	1, 3	HSH	
2-Hydroxyethyl acrylate	14	2	HAL	
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution	43		HET	
N,N-bis(2-Hydroxyethyl) oleamide	10		HOO	
2-Hydroxy-4-(methylthio)butanoic acid	4		HBA	
<i>Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated</i>	31			PHT
<i>Illipe oil, see Oil, edible: Illipe</i>	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	
Isophorone diamine	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
<i>iso-Propanolamine, see Isopropanolamine</i>	8			MPA (PAX/PLA)
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	2, 3	IPQ	IPO/IPP/PRA
<i>iso-Propylamine solution, see Isopropylamine (70% or less) solution</i>	7			IPQ (IPO/IPP/PRA)
<i>Isopropylbenzenes, see Alkyl (C3–C4) benzenes</i>	32			AKC (CUM/PBY/PBZ)
Isopropylcyclohexane	31	3	IPX	
<i>iso-Propyl cyclohexane, see Isopropylcyclohexane</i>	31			IPX
Isopropyl ether	41	3	IPE	PRL/PRN
<i>Jatropha oil, see Oil, misc: Jatropha</i>	4			JTO
Jet fuels:				IBR
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	
Ketone residue	18		KTR	
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, 2	LTA	
Lactonitrile solution (80% or less)	37	3	LNI	
Lard	34		LRD	OLD
Latex, ammonia (1% or less)- inhibited	30	3	LTX	
Latex, liquid synthetic	43		LLS	LCB/LCC/LSB
Latex: Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber.	43	3	LCC	LCB/LSB
Lauric acid	34		LRA	
Lauric acid methyl ester/Myristic acid methyl ester mixture	34		LMM	
<i>Lauryl polyglucose (50% or less), see Alkyl (C12–C14) polyglucoside solution (55% or less).</i>	43		LAP	AMG
<i>Lauryl polyglucose, see Alkyl (C12–C14) polyglucoside solution (55% or less).</i>	43			AGM/LAP

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
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
<i>Ligninsulfonic acid, sodium salt solution, see</i> Lignin liquor or Sodium lignosulfonate solution.	43	.....	LGA	LNL or SLG
<i>d-Limonene, see</i> Dipentene	30	.....	.....	DPN
Linear alkyl (C12–C16) propoxyamine ethoxylate	8	.....	LPE.	
<i>Linseed oil, see</i> Oil, misc: Linseed	34	.....	.....	OLS
<i>Liquefied Natural Gas, see</i> Methane	31	.....	LNG	MTH
Liquid chemical wastes	0	1, 3	LCW.	
Liquid Streptomyces solubles	43	.....	.....
Long-chain alkaryl polyether (C11–C20)	41	.....	LCP.	
Long-chain alkyl amine	7	.....	LAA.	
Long-chain alkylphenate/Phenol sulfide mixture	21	.....	LPS.	
Long-chain alkaryl sulfonic acid (C16–C60)	0	1	LCS.	
Long-chain alkyl (C13+) salicylic acid	4	.....	LAS.	
Long-chain polyetheramine in alkyl(C2–C4)benzenes	7	.....	LCE.	
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
<i>Magnesium nonyl phenol sulfide, see</i> Magnesium long-chain alkyl phenate sulfide (C8–C20).	34	.....	.....	MPS
<i>Magnesium sulfonate, see</i> Magnesium long-chain alkaryl sulfonate (C11–C50).	34	.....	MSE	MAS
Maleic anhydride	11	.....	MLA.	
Maleic anhydride/sodium allylsulphonate copolymer solution	11	.....	.....	PHN (CFO/CRL/CRO/ CRS/CSO)
Maltitol solution	0	1, 3	MTI.	
<i>Mango kernel oil, see</i> Oil, edible: Mango kernel	34	.....	.....	MKO (VEO)
Mercaptobenzothiazol, sodium salt solution	5	.....	SMB	MBT
2-Mercaptobenzothiazol (in liquid mixture)	5	.....	BTM	SMD
Mesityl oxide	18	2	MSO.	
Metam sodium solution	7	.....	MSS	SMD
Methacrylic acid	4	.....	MAD.	
Methacrylic acid—Alkoxy poly(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.	
<i>N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide, see</i> Metolachlor.	34	.....	.....	MCO
1-Methoxy-2-propyl acetate	34	.....	MXP.	
<i>Methoxy triglycol, see</i> 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.	
Methyl amyl acetate	34	.....	MAC.	
Methyl amyl alcohol	20	.....	MAA	MIC
Methyl amyl ketone	18	.....	MAK.	
N-Methylaniline	9	3	MAN.	
alpha-Methylbenzyl alcohol with Acetophenone (15% or less)	20	3	MBA.	
Methyl bromide	36	.....	MTB.	
<i>Methyl butanol, see</i> the amyl alcohols	20	.....	.....	AAI/AAL/AAN/APM/ASE/ IAA
<i>Methyl butenes, see</i> Pentene (all isomers)	30	.....	.....	PTX (AMW/AMZ/PTE)
Methyl butenol	20	.....	MBL.	
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
3-Methyl butyraldehyde	19	.....	MBR.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
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
Methyl ethyl ketone	18	2	MEK.	
2-Methyl-6-ethyl aniline	9	.....	MEN.	
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
<i>Methyl isoamyl ketone, see Methyl amyl ketone</i>	18	.....	MAJ	MAK
<i>Methyl isobutyl carbinol, see Methyl amyl alcohol</i>	20	.....	MIC	MAA
Methyl isobutyl ketone	18	2	MIK	MBB/MBK
Methyl methacrylate	14	.....	MMM.	
Methylene bridged isobutylene phenols	21	.....	MBP.	
<i>Methylene chloride, see Dichloromethane</i>	36	.....	.....	DCM
3-Methyl-3-methoxybutanol	20	.....	MXB.	
3-Methyl-3-methoxybutyl acetate	34	.....	MMB.	
Methyl naphthalene (molten)	32	3	MNA.	
Methylolureas	19	.....	MUS.	
<i>2-Methyl pentane, see Hexane (all isomers)</i>	31	.....	.....	HXS (ALK/HXA/IHA/NHX)
2-Methyl-1,5-pentanediamine	7	.....	MPM.	
<i>4-Methyl-1-pentene, see Hexene (all isomers)</i>	30	.....	MTN	HEX (HXE/HXT/HXU/HXV/ MPN)
<i>2-Methyl-1-pentene, see Hexene (all isomers)</i>	30	.....	MPN	HEX (HXE/HXT/HXU/HXV/ MTN)
<i>Methyl tert-pentyl ether, see tert-Amyl methyl ether</i>	41	.....	.....	AYE
2-Methyl-1,3-propanediol	20	.....	MDL.	
Methyl propyl ketone	18	.....	MKE.	
2-Methyl-5-ethylpyridine	9	.....	MEP.	
<i>Methylpyridine, see the Methylpyridines</i>	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.	
Microsilica slurry	43	.....	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.	
<i>Monoethanolamine, see Ethanolamine</i>	8	.....	MEA.	
<i>Monoethylamine, see Ethylamine</i>	7	.....	.....	EAM (EAN/EAO)
<i>Monoisopropanolamine, see Isopropanolamine</i>	8	.....	.....	MPA (PLA/PLX)
Morpholine	7	2	MPL.	
Motor fuel anti-knock compound (containing lead alkyls)	0	1	MFA.	
<i>MTBE, see Methyl tert-butyl ether</i>	41	.....	.....	MBE
Myrcene	30	.....	MRE.	
Naphtha:				
Aromatic	33	.....	NAR.	
Coal tar naphtha 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 still residue	32	2	NSR.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Naphthalene sulfonic acid, sodium salt solution	34	.....	NSB	NSA
Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution	0	1	NFS	
Naphthenic acid	4	.....	NTI	
Naphthenic acid, sodium salt solution	43	.....	NTS	
Neodecanoic acid	4	.....	NEA	DCO/NAT
NIAX POLYOL APP 240C	0	1, 2	NXP	
Nitrating acid (mixture of Sulfuric and Nitric acids)	0	1	NIA	
Nitric acid (70% and over)	0	1, 2, 3	NCE	NAC/NCD
Nitric acid (less than 70%)	3	2	NCD	NAC/NCE
<i>Nitric Acid, fuming, see Nitric acid (70% and over)</i>	0	1, 2, 3	.....	NCE
<i>Nitric Acid, red fuming, see Nitric acid (70% and over)</i>	0	1, 2, 3	.....	NCE
Nitrilotriacetic acid, trisodium salt solution	34	3	NCA	
Nitrobenzene	42	.....	NTB	
<i>o-Nitrochlorobenzene, see o-Chloronitrobenzene</i>	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/NTP
<i>o-Nitrophenol (molten)</i>	0	1, 2	NTP	NIP/NPH/NPX
Nitropropane (60%)/Nitroethane (40%) mixture	42	.....	NNM	NNL/NNO/NPM/NPN/NPP/ NTE
1-or 2-Nitropropane	42	.....	NPM	NPN/NPP
<i>o- or p-Nitrotoluenes</i>	42	3	NIT	NIE/NTR/NTT
<i>Nonane (all isomers), see Alkanes (C6–C9)</i>	31	.....	NAX	ALK (NAN)
Nonanoic acid (all isomers)	4	.....	NNA	NAI/NIN
Nonanoic/Tridecanoic acid mixture	4	.....	NAT	NAI/NIN/NNNA
<i>Non-edible industrial grade palm oil, see Oil, misc: Palm, non-edible industrial grade.</i>	34	.....	.....	OPB
Nonene (all isomers)	30	2	NOO	NNE/NON/OAM/OFX/OFY
Nonyl acetate	34	.....	NAE	
Nonyl alcohol (all isomers)	20	2	NNS	ALR/DBC/NNI/NNN
<i>Nonylbenzene, see Alkyl(C9+)benzenes</i>	32	.....	.....	AKB
Nonyl methacrylate monomer	14	.....	NMA	
Nonyl phenol	21	.....	NNP	
<i>Nonyl phenol poly(4+)ethoxylate, see Alkyl (C7–C11) phenol poly (4–12) ethoxylate.</i>	40	.....	NPE	APN
<i>Nonyl phenol sulfide (90% or less) solution, see Alkyl phenol sulfide (C8–C40).</i>	34	.....	.....	AKS (NPS)
Nonylphenol (48–62%)/Phenol (42–48%)/Dinonylphenol (1–10%) mixture ...	21	.....	NYL	
Non-noxious Liquid Substance, (12) n.o.s. Cat OS	0	1	NOL	
Noxious Liquid Substance, NF, (1) n.o.s. Cat X	0	1	.....
Noxious Liquid Substance, F, (2) n.o.s. Cat X	0	1	.....
Noxious Liquid Substance, NF, (3) n.o.s. Cat X	0	1	.....
Noxious Liquid Substance, F, (4) n.o.s. Cat X	0	1	.....
Noxious Liquid Substance, NF, (5) n.o.s. Cat Y	0	1	.....
Noxious Liquid Substance, F, (6) n.o.s. Cat Y	0	1	.....
Noxious Liquid Substance, NF, (7) n.o.s. Cat Y	0	1	.....
Noxious Liquid Substance, F, (8) n.o.s. Cat Y	0	1	.....
Noxious Liquid Substance, NF, (9) n.o.s. Cat Z	0	1	.....
Noxious Liquid Substance, F, (10) n.o.s. Cat Z	0	1	.....
Noxious Liquid Substance, (11) n.o.s. Cat Z	0	1	.....
<i>Nutmeg butter oil, see Oil, edible: Nutmeg butter</i>	34	.....	.....	ONB (VEO)
<i>1-Octadecene, see the olefin or alpha-olefin entries</i>	30	.....	.....	OAM/OFZ
<i>1-Octadecanol, see Stearyl alcohol</i>	20	.....	.....	SYL (ALY/ASY)
Octadecenoamide solution	10	.....	ODD	
<i>Octadecanol (oleyl alcohol), see Alcohols (C13+)</i>	20	.....	.....	ALY (AYL/ASY/OYL)
Octamethylcyclotetrasiloxane	34	3	OSA	
<i>Octane (all isomers), see Alkanes (C6–C9)</i>	31	.....	OAX	ALK (IOO/OAN)
Octanoic acid (all isomers)	4	.....	OAY	OAA/EHO
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
<i>Octyl alcohol, see Octanol (all isomers)</i>	20	2	.....	OCX (EHX/IOA/OTA)
Octyl aldehydes	19	.....	OAL	EHA/IOC/OLX
<i>Octylbenzenes, see Alkyl (C5–C8) benzenes</i>	32	.....	.....	AKD
Octyl decyl adipate	34	.....	ODA	
n-Octyl mercaptan	0	.....	OME	
<i>Octyl nitrates (all isomers), see Alkyl (C7–C9) nitrates</i>	34	.....	ONE	AKN

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Octyl phenol	21	.....	OPH.	
<i>Octyl phthalate, see</i> Dioctyl phthalate	34	.....	.....	DAH (DIE/DIO/DLK/DOP)
Oil, edible:				
Beechnut	34	.....	OBN.	
Castor	34	.....	OCA	VEO
Cocoa butter	34	.....	OCB	VEO
Coconut	34	.....	OCC	VEO
Cod liver	34	.....	OCL	AFN
Corn	34	.....	OCO	VEO
Cotton seed	34	.....	OCS	VEO
Fish	34	2	OFS	AFN
Grape seed	34	.....	.....
Groundnut	34	.....	OGN	VEO
Hazelnut	34	.....	OHN	VEO
Illipe	34	.....	ILO	VEO
Lard	34	.....	OLD	AFN
<i>Maize, see</i> 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	34	.....	ORP	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
Soyabean	34	2	OSB	VEO
<i>Sunflower, see</i> 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	.....	.....
Camelina	34	.....	OCI.	
Cashew nut shell oil (untreated)	34	.....	OCN.	
Clarified	33	.....	OCF.	
Coal	33	.....	OMC.	
Coconut fatty acid	34	2	CFA.	
Coconut, 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.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Heartcut distillate	33	.....	OHD.	
Jatropha	4	.....	JTO.	
Lanolin	34	.....	OLL	AFN
Linseed	33	.....	OLS.	
Lubricating	33	2	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
Rapeseed fatty acid methyl esters	34	3	ORP.	
Residual	33	.....	ORL.	
Resin, distilled	33	.....	ORR.	
Road	33	.....	ORD.	
Rosin	33	.....	ORN.	
Seal	34	.....	
Soapstock	34	.....	OIS.	
Soyabean (epoxidized)	34	.....	OSC	EVO
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	33	.....	OVC.	
<i>Oleamide solution, see Octadecenoamide solution</i>	10	.....		ODD
Olefin-Alkyl ester copolymer (molecular weight 2000+)	30	.....	OCP.	
Olefin mixture (C7–C9) C8 rich, stabilized	30	3	OFC	OFW/OFY/OFX
Olefin mixtures (C5–C7)	30	3	OFX	OAM/OFX/OFW/OFX/OFZ
Olefin mixtures (C5–C15)	30	3	OFY	OAM/OFX/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	4	.....	OLA.	
Oleum	0	1, 2	OLM	SAC/SFX
<i>Oleyl alcohol, see Alcohols (C13+)</i>	20	.....	OYL	ALY (ASY)
Oleylamine	7	.....	OLY.	
<i>Olive oil, see Oil, edible: Olive</i>	34	.....		OOL (VEO)
Orange juice (concentrated)	0	1	OJC	OJN
Orange juice (not concentrated)	0	1	OJN	OJC
Organomolybdenum amide	10	.....	OGA.	
<i>ORIMULSION, see Asphalt emulsion</i>	33	.....		ASQ
Oxyalkylated alkyl phenol formaldehyde	33	.....	OPF.	
Oxygenated aliphatic hydrocarbon mixture	0	1, 3	OAH.	
<i>Palm acid oil, see Oil, misc: Palm acid</i>	34	3		PLM
<i>Palm fatty acid distillate, see Oil, misc: Palm fatty acid distillate</i>	34	3		PFD
<i>Palm kernel acid oil, see Oil, misc: Palm kernel acid</i>	34	.....		PNO
<i>Palm kernel acid oil, methyl ester, see Oil, misc: Palm kernel acid, methyl ester.</i>	34	.....		PNF
<i>Palm kernel oil, see Oil, edible: Palm kernel</i>	34	.....		OPO (VEO)
<i>Palm kernel oil fatty acid distillate, see Oil, misc: Palm kernel fatty acid distillate.</i>	34	.....		PNG
<i>Palm kernel olein, see Oil, edible: Palm kernel olein</i>	34	3		PKO (VEO)
<i>Palm kernel stearin, see Oil, edible: Palm kernel stearin</i>	34	3		PKS (VEO)
<i>Palm mid fraction, see Oil, edible: Palm mid fraction</i>	34	3		PFM (VEO)
<i>Palm oil, see Oil, edible: Palm</i>	34	2, 3		OPM (VEO)
<i>Palm oil fatty acid methyl ester, see Oil, misc: Palm fatty acid methyl ester</i>	34	3		OPE

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
<i>Palm olein, see Oil, edible: Palm Olein</i>	34	3	.....	PON (VEO)
<i>Palm stearin, see Oil, edible: Palm stearin</i>	34	.....	.....	PMS (VEO)
Parachlorobenzotrifluoride	32	.....	PBF.	
<i>Paraffin wax, see Waxes: Paraffin</i>	31	3	.....	WPF
<i>n-Paraffins (C10–C20), see n-Alkanes (C10+)</i>	31	.....	PFN	ALJ
Paraldehyde	19	.....	PDH.	
Paraldehyde-Ammonia reaction product	9	.....	PRB.	
<i>Peanut, see Oil, edible: Peanut</i>	34	.....	.....	OPN (VEO)
Pentachloroethane	36	.....	PCE.	
Pentacosa(oxypropane-2,3-diyl)s	20	.....	POY	
<i>Pentadecanol, see Alcohols (C13+)</i>	20	.....	PDC	ALY
1,3-Pentadiene .....	.....	PDE	PDN.	
1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures ...	30	3	PMM.	
<i>Pentaethylene glycol, see Polyethylene glycols</i>	20	.....	.....	PEG
<i>Pentaethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.</i>	40	.....	.....	PAG
Pentaethylenhexamine	7	.....	PEN.	
Pentaethylenhexamine/Tetraethylenepentamine mixture	7	.....	PEP.	
Pentane (all isomers)	31	.....	PTY	IPT/PTA
Pentanoic acid	4	.....	POC.	
<i>n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture</i>	4	.....	POJ	POC
<i>Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.</i>	43	.....	.....	DYS
Pentene (all isomers)	30	.....	PTX	PTE
Pentyl aldehyde	19	.....	PYL.	
<i>n-Pentyl propionate</i>	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	2	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.	
<i>PIB, see Poly(4+)Isobutylene (MW≤224)</i>	30	.....	.....
alpha-Pinene	30	.....	PIO	PIB/PIN
beta-Pinene	30	.....	PIP	PIN/PIO
<i>Pine oil, see Oil, misc: Pine</i>	33	.....	PNL	OPI
Piperazine (70% or less)	7	.....	PIZ	PPB/PPZ
Piperazine (crude)	7	.....	PZC	PPZ/PIZ
Piperazine, 68% solution	7	.....	.....
Piperylene concentrate	30	.....	PIC	PDE/PDN
Polyacrylic acid solution (40% or less)	43	.....	PYA.	
Polyalkenyl succinic anhydride amine	7	.....	PSN.	
Polyalkyl acrylate	14	.....	PAY.	
Polyalkyl(C18–C22) acrylate in Xylene	14	.....	PIX.	
Polyalkyl alkenamine succinimide, molybdenum oxysulfide	10	.....	PSO.	
Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures	40	.....	PPX.	
<i>Polyalkylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40	.....	PGB	PAG
Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	40	2	PAG.	
<i>Including:</i>				
<i>Diethylene glycol butyl ether</i>	40	.....	.....
<i>Diethylene glycol ethyl ether</i>	40	.....	.....
<i>Diethylene glycol n-hexyl ether</i>	40	.....	.....
<i>Diethylene glycol methyl ether</i>	40	.....	.....
<i>Diethylene glycol propyl ether</i>	40	.....	.....
<i>Dipropylene glycol butyl ether</i>	40	.....	.....
<i>Dipropylene glycol methyl ether</i>	40	.....	.....
<i>Polyalkylene glycol butyl ether</i>	40	.....	.....
<i>Polyethylene glycol monoalkyl ether</i>	40	.....	.....
<i>Polypropylene glycol methyl ether</i>	40	.....	.....
<i>Tetraethylene glycol methyl ether</i>	40	.....	.....
<i>Triethylene glycol butyl ether</i>	40	.....	.....
<i>Triethylene glycol ethyl ether</i>	40	.....	.....
<i>Triethylene glycol methyl ether</i>	40	.....	.....
<i>Tripropylene glycol methyl ether</i>	40	.....	.....

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetate	34	.....	PAF.	
<i>Including:</i>				
<i>Diethylene glycol butyl ether acetate</i>	34			
<i>Diethylene glycol ethyl ether acetate</i>	34			
<i>Diethylene glycol methyl ether acetate</i>	34			
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.	
<i>Polycarboxylic ester (C9+), see</i> Ditridecyl adipate	34	.....		DTY
Poly(2+)cyclic aromatics	32	.....	PCA.	
<i>Polydimethylsiloxane, see</i> 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.	
<i>Polyethylene glycol monoalkyl ether, see</i> 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	2	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	2	PPI.	
Polymethylsiloxane	34	.....	PMX.	
Polyolefin (molecular weight 300+)	33	.....	PMW ...	PLF
Polyolefin amide alkeneamine (C17+)	33	.....	POH	POD
<i>Polyolefin amide alkeneamine (C28+), see</i> Polyolefin amide alkeneamine (C17+).	33	.....	POD	POH
Polyolefin amide alkeneamine borate (C28–C250)	33	.....	PAB.	
Polyolefin amide alkeneamine in mineral oil	33	.....	PLK.	
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture	7	.....	PMO.	
Polyolefin amide alkeneamine polyol	20	.....	PAP.	
Polyolefin amine (C17+)	7	.....	POG.	
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 (MW 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	2	PGC.	
<i>Polypropylene glycol methyl ether, see</i> Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.	40	.....	PGM	PAG
Polysiloxane	34	.....	PSX.	
Polysiloxane/White spirit, low (15–20%) aromatic	34	.....	PWS.	
<i>Poly(tetramethylene ether) glycols (mw 950–1050), see</i> alpha-hydro-omega-Hydroxytetradeca(oxytetramethylene).	40	.....	PYU	HTO

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Polytetramethylene ether glycol	40	.....	PYT	HTO/PYU/PYS
Poppy seed, see Oil, edible: Poppy seed	34	.....	.....	OPS (VEO)
Poppy, see Oil, edible: Poppy	34	.....	.....	OPY (VEO)
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 .....	.....
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
n-Propanolamine	8	.....	PLA	MPA/PAX
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution.	0	1, 3	PLN .....	.....
Propionaldehyde	19	.....	PAD .....	.....
beta-Propiolactone	18	3	PLT .....	.....
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-Propyl chloride	36	.....	PRC .....	.....
Propyl ether	41	.....	.....	IPE/PRE
n-Propylamine	7	.....	PRA	IPO/IPP/IPQ
Propylbenzenes (all isomers), see Alkyl(C3-C4)benzenes	32	.....	PBY	AKC (CUM/PBZ)
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	2	PME	PGE
Propylene glycol methyl ether acetate	34	2	PGN .....	.....
Propylene glycol monoalkyl ether	40	.....	PGE .....	.....
Including:				
n-Propoxypropanol	40	.....	.....	.....
Propylene glycol n-butyl ether	40	.....	.....	.....
Propylene glycol ethyl ether	40	.....	.....	.....
Propylene glycol methyl ether	40	2	.....	.....
Propylene glycol propyl ether	40	.....	.....	.....
Propylene glycol phenyl ether	40	.....	PGP .....	.....
Propylene glycol propyl ether, see Propylene glycol monoalkyl ether ...	40	.....	.....	PGE
Propylene oxide	16	.....	POX .....	.....
Propylene tetramer	30	.....	PTT .....	.....
Propylene trimer	30	.....	PTR .....	.....
Propylene/Propane/MAPP gas mixture	30	2	PPM .....	.....
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 (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
Rapeseed oil, see Oil, edible: Rapeseed	34	.....	.....	ORO (VEO)
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 soap (disproportionated) solution	43	.....	RSP .....	.....
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 .....	.....

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Siloxanes	34	.....	SLX.	
Sludge, treated	43	.....	SWA.	
Sodium acetate solutions	34	.....	SAN.	
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, Glycol, Water mixture (containing Sodium hydroxide)	5	.....	SAQ	SAO/SAP/SAW/SAY
Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide).	34	2	SAW	SAO/SAP/SAQ/SAY
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	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 solutions	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
<i>Sodium dimethyl naphthalene sulfonate solution, see</i> Dimethyl naphthalene sulfonic acid, sodium salt solution.	34	.....	.....	DNS
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 solution (45% or less)	5	2	SHR.	
Sodium hydrosulfide/Ammonium sulfide solution	5	2	SSA	ASF/ASS
<i>Sodium hydroxide solution, see</i> 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.	
<i>Sodium 2-mercaptobenzothiazol solution, see</i> Mercaptobenzothiazol, sodium salt solution.	5	.....	.....	SMB
Sodium methoxide (25% in methanol)	0	1	SMO.	
Sodium methylate 21–30% in methanol	0	1, 2, 3	SMT	SMS
<i>Sodium naphthalene sulfonate solution, see</i> Naphthalene sulfonic acid (40% or less), sodium salt solution (40% or less).	34	.....	SNS	NSA (NSB)
<i>Sodium naphthenate solution, see</i> Naphthenic acid, sodium salt solution.	43	.....	.....	NTS
Sodium nitrite solution	5	.....	SNI	SNT
<i>Sodium N-methyl dithio carbamate solution, see</i> Metam sodium solution.	7	.....	MSS	SMD
Sodium petroleum sulfonate	34	.....	SPS.	
Sodium poly(4+)acrylate solution	43	2	SOP	SOO
Sodium polyacrylate solution	43	2	SOO	SOP
<i>Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see</i> Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.	43	.....	STA	FHX
Sodium silicate solution	43	2	SSN	SSC
Sodium sulfate solution	34	3	SST	SSO
Sodium sulfide solution (15% or less)	43	.....	SDR	SDS
Sodium sulfide/Hydrosulfide solution (H ₂ S 15 ppm or less)	0	1, 2	SSH	SDS/SHR/SSI/SSJ
Sodium sulfide/Hydrosulfide solution (H ₂ S greater than 15 ppm but less than 200 ppm).	0	1, 2	SSI	SDS/SHR/SSH/SSJ
Sodium sulfide/Hydrosulfide solution (H ₂ S greater than 200 ppm)	0	1, 2	SSJ	SDS/SHR/SSH/SSI
Sodium sulfite solution (25% or less)	43	.....	SUP	SSF/SUS
Sodium tartrates/Sodium succinates solution	43	.....	STM.	
Sodium thiocyanate solution (56% or less)	0	1, 2	STS	SCY
Sorbitol solution	20	.....	SBU	SBT
<i>Soyabean fatty acid methyl ester, see</i> Oil, misc: Soyabean fatty acid methyl ester.	34	.....	.....	OST
Soyabean oil (expoxidized)	34	.....	OSC.	
<i>Soyabean oil, see</i> Oil, edible: Soyabean	34	2	.....	OSB (VEO)
<i>Stearic acid, see</i> Fatty acids (saturated, C14+)	34	.....	SRA	FAD (FAB/FAE/FDI/FDT)
Stearyl alcohol	20	.....	SYL	ALY/ASY
<i>Stoddard solvent, see</i> 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.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Sulfonated polyacrylate solution	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	10		SPY.	
Sulfurized polyolefinamide alkene(C28–C250) amine	33		SPO.	
<i>Sunflower seed oil, see Oil, edible: Sunflower seed</i>	34			OSN (VEO)
<i>Sym-trichlorobenzene, see 1,2,4-Trichlorobenzene</i>	36			
<i>Tall oil, see Oil, misc: Tall</i>	34			OTL (OTI/OTJ)
<i>Tall oil fatty acid (resin acids less than 20%), see Oil, misc: Tall oil fatty acid (resin less than 20%).</i>	34	2		OTK (OTT)
Tall oil fatty acid, barium salt	0	1, 2	TOB.	
Tall oil soap (crude)	34		TOR	TOS
Tall oil soap (disproportionated) solution	43		TOS.	
<i>Tall oil, crude, see Oil, misc: Tall, crude</i>	34	2, 3		OTI (OTJ/OTL)
<i>Tall oil, distilled, see Oil, misc: Tall, distilled</i>	34	3		OTJ (OTI/OTL)
<i>Tall oil, fatty acid, see Oil, misc: Tall fatty acid</i>	34	2		OTT
<i>Tall oil, pitch, see Oil, misc: Tall pitch</i>	34	3		OTP (OTI/OTJ/OTL)
Tallow	34	2	TLO.	
<i>Tallow alcohol, see Alcohols (C13+)</i>	20	2	TFA	ALY (ASY)
Tallow alkyl nitrile	37		TAN.	
Tallow fatty acid	34	2	TFD.	
<i>Tallow fatty alcohol, see Alcohols (C13+)</i>	20	2	TFA	ALY
<i>TAME, see tert-Amyl methyl ether</i>	41			AYE
Tertiary butylphenols	21		BLT	BTP
Tetrachloroethane	36		TEC.	
<i>1,1,2,2-Tetrachloroethane, see Tetrachloroethane</i>	36		TEC	TEE
<i>Tetradecanol, see Alcohols (C13+)</i>	20		TTN	ALY
<i>Tetradecene, see olefins or alpha-olefin entries</i>	30			OAM/OFY/OFW/OFZ/TDD
<i>Tetradecylbenzene, see Alkyl(C9+) benzenes</i>	32		TDB	AKB
Tetraethyl silicate monomer/oligomer (20% in ethanol)	0	1, 3	TSM.	
Tetraethylene glycol	40		TTG.	
<i>Tetraethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40			PAG
Tetraethylenepentamine	7	2	TTP.	
Tetrahydrofuran	41		THF.	
Tetrahydronaphthalene	32		THN.	
Tetramethylbenzene (all isomers)	32		TTC	TTB
<i>1,2,3,5-Tetramethylbenzene, see Tetramethylbenzene (all isomers)</i>	32		TTB	TTC
<i>Tetrapropylbenzene, see Alkyl(C9+)benzenes</i>	32			AKB
<i>Tetrasodium salt of ethylenediaminetetraacetic acid solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution.</i>	43			EDS
Titanium dioxide slurry	43		TDS.	
Titanium tetrachloride	2		TTT.	
Toluene	32	2	TOL.	
Toluene diisocyanate	12	2	TDJ	TDI
Toluenediamine	9		TDA.	
o-Toluidine	9	2	TLI	TOD/TOI
<i>Triarylphosphate, see Triisopropylated phenyl phosphates</i>	34		TRA	TPL
Tributyl phosphate	34		TBP.	
1,2,3-Trichlorobenzene (molten)	36	3	TBZ	TCB
1,2,4-Trichlorobenzene	36		TCB	TBZ
<i>1,2,3-Trichlorobenzol, see 1,2,3-Trichlorobenzene (molten)</i>	36		TBZ	TCB
1,1,1-Trichloroethane	36	2	TCE	TCM
1,1,2-Trichloroethane	36		TCM	TCE
Trichloroethylene	36	2	TCL.	
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
1,2,3-Trichloropropane	36	2	TCN.	
<i>Tridecane (all isomers), see Alkanes (C10+) (all isomers)</i>	31		TRD	ALV (ALJ)
Tridecanoic acid	34		TDO.	
<i>Tridecanol, see Alcohols (C13+)</i>	20		TDN	ALY (ASK/ASY/AYK/LAL)
<i>Tridecene, see Olefins (C13+, all isomers)</i>	30		TRD	OAM/OFY/OFW/OFZ/TDC
Tridecyl acetate	34		TAE.	
<i>Tridecylbenzene, see Alkyl(C9+) benzenes</i>	32		TRB	AKB
Triethanolamine	8	2	TEA.	
Triethylamine	7		TEN.	
Triethylbenzene	32		TEB.	

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Triethylene glycol	40	.....	TEG.	
Triethylene glycol butyl ether mixture	40	.....	TBD.	
<i>Triethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.</i>	40	.....	TBE	PAG
Triethylene glycol di-(2-ethylbutyrate)	34	.....	TGD.	
Triethylene glycol dibenzoate	34	.....	TGB.	
Triethylene glycol ether mixture	40	.....	TYM.	
<i>Triethylene glycol ethyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40	.....	TGE	PAG
<i>Triethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	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.	
<i>Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution.</i>	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
<i>Trimethyl nonanol, see Dodecanol</i>	20	.....	.....	DDN (ASK/ASY/LAL)
Trimethylol propane polyethoxylated	20	.....	TPR.	
Trimethyl phosphite	34	2	TPP.	
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)	12	.....	THI.	
Trimethylhexamethylenediamine (2,2,4- and 2,4,4-)	7	.....	THA.	
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.	
Triphenylborane (10% or less)/Caustic soda solution	5	.....	TPB.	
1,3,5-Trioxane	41	2	TRO.	
<i>Tripropylene, see Propylene trimer</i>	30	.....	.....	PTR
Tripropylene glycol	40	.....	TGC.	
<i>Tripropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.</i>	40	.....	TGM	PAG
<i>Trisodium nitrilotriacetate solution, see Nitrilotriacetic acid, trisodium salt solution.</i>	34	.....	TSO	NCA (TSN)
Trisodium phosphate solution	5	.....	TSP.	
<i>Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution.</i>	43	.....	.....	HET
Trixylyl phosphate	34	.....	TRP.	
<i>Trixylyl phosphate, see Trixylyl phosphate</i>	34	.....	.....	TRP
<i>Tung oil, see Oil, misc: Tung</i>	34	.....	.....	OTG
Turpentine	30	.....	TPT.	
Turpentine substitute, <i>see White spirit (low (15–20%) aromatic)</i>	33	.....	.....	WSL (WSP)
Ucarsol CR Solvent 302 SG	8	.....	UCS.	
<i>Undecane (all isomers), see Alkanes (C10+) (all isomers)</i>	31	.....	UDN	ALV (ALJ)
Undecanoic acid	4	.....	UDA.	
<i>Undecanol, see Undecyl alcohol</i>	20	.....	.....	UND (ALR)
Undecene	30	.....	UDD	UDC
1-Undecene	30	.....	UDC	UDD
Undecyl alcohol	20	.....	UND	ALR
<i>Undecylbenzene, see Alkyl(C9+) benzenes</i>	32	.....	UDB	AKB
Urea solution	43	.....	USL	URE
Urea, Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution.	0	1	UPX.	
Urea/Ammonium phosphate solution	43	.....	UAP.	
Urea/Ammonium nitrate solution (containing less than 1% free Ammonia).	43	2	UAU	ANU/UAS/UAT/UAV
Urea/Ammonium nitrate solution (containing 1% or more Ammonia)	6	.....	UAV	ANU/UAS/UAT/UAV
<i>Vacuum gas oil, see oil misc: Vacuum gas oil</i>	33	.....	OVC.	
Valeraldehyde (all isomers)	19	.....	VAK	IVA/VAL
Vanillin black liquor (free alkali content 3% or more)	5	.....	VBL.	
Vegetable acid oils, n.o.s.	34	.....	VAD.	
<i>Including:</i>				
<i>Corn acid oil</i>	34	.....	.....
<i>Cottonseed acid oil</i>	34	.....	.....

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
<i>Dark mixed acid oil</i>	34			
<i>Groundnut acid oil</i>	34			
<i>Mixed acid oil</i>	34			
<i>Mixed general acid oil</i>	34			
<i>Mixed hard acid oil</i>	34			
<i>Mixed soft acid oil</i>	34			
<i>Rapeseed acid oil</i>	34			
<i>Safflower acid oil</i>	34			
<i>Soya acid oil</i>	34			
<i>Sunflower seed acid oil</i>	34			
Vegetable fatty acid distillates, n.o.s.	34	3	VFD.	
Including:				
<i>Palm kernel fatty acid distillate</i>	34			
<i>Palm oil fatty acid distillate</i>	34			
<i>Tall fatty acid distillate</i>	34			
<i>Tall oil fatty acid distillate</i>	34			
Vegetable oils, n.o.s.	34		VEO.	
Including:				
<i>Beechnut oil</i>	34			
<i>Camelina oil</i>	34			
<i>Cashew nut shell</i>	34			
<i>Castor oil</i>	34			
<i>Cocoa butter</i>	34			
<i>Coconut oil</i>	34	2		
<i>Corn oil</i>	34			
<i>Cotton seed oil</i>	34			
<i>Croton oil</i>	34			
<i>Grape seed oil</i>	34			
<i>Groundnut oil</i>	34			
<i>Hazelnut oil</i>	34			
<i>Illipe oil</i>	34			
<i>Jatropha oil</i>	4			
<i>Linseed oil</i>	34			
<i>Mango kernel oil</i>	34			
<i>Nutmeg butter</i>	34			
<i>Oiticica oil</i>	34			
<i>Olive oil</i>	34			
<i>Palm kernel oil</i>	34			
<i>Palm kernel olein</i>	34			
<i>Palm kernel stearin</i>	34			
<i>Palm mid fraction</i>	34			
<i>Palm, non-edible industrial grade</i>	34			
<i>Palm oil</i>	34	2		
<i>Palm olein</i>	34			
<i>Palm stearin</i>	34			
<i>Peanut oil</i>	34			
<i>Peel oil (oranges and lemons)</i>	34			
<i>Perilla oil</i>	34			
<i>Pine oil</i>	34			
<i>Poppy seed oil</i>	34			
<i>Poppy oil</i>	34			
<i>Raisin seed oil</i>	34			
<i>Rapeseed oil</i>	34			
<i>Rapeseed (low erucic acid containing less than 4% free fatty acids).</i>	34			
<i>Resin, distilled</i>	33			
<i>Resin oil</i>	33			
<i>Rice bran oil</i>	34			
<i>Rosin oil</i>	34			
<i>Safflower oil</i>	34			
<i>Salad oil</i>	34			
<i>Sesame oil</i>	34			
<i>Shea butter</i>	34			
<i>Soyabean oil</i>	34	2		
<i>Sunflower seed oil</i>	34			
<i>Tall</i>	34			
<i>Tall, crude</i>	34			
<i>Tall, distilled</i>	34			
<i>Tall, pitch</i>	34			
<i>Tucum oil</i>	34			
<i>Tung oil</i>	34			

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
<i>Walnut oil</i>	34			
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.	
Vinytoluene	13		VNT.	
Water	43		WTR.	
Waxes:				
.....	.....	.....	WAX.	
Candelilla	34		WCD.	
Carnauba	34		WCA.	
Paraffin	31		WPF.	
Petroleum	33		WPT.	
<i>White spirit, see</i> White spirit (low (15–20%) aromatic)	33		WSP	WSL
White spirit (low (15–20%) aromatic)	33		WSL	WSP
<i>Wine, see</i> Alcoholic beverages	20		ABV.	
Wood lignin with Sodium acetate/oxalate	0	1, 3	WOL.	
Xylenes	32	2	XLX	XLM/XLO/XLP
Xylenes/Ethylbenzene (10% or more) mixture	32		XEB.	
Xylenols	21		XYL.	
Zinc alkaryl dithiophosphate (C7–C16)	34		ZAD.	
Zinc alkenyl carboxamide	10		ZAA	WSL
Zinc alkyl dithiophosphate (C3–C14)	34		ZAP.	
<i>Zinc bromide/Calcium bromide solution, see</i> 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. Entries which were added 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, as on August 16, 2013 (78 FR 50148), 79 FR 68132, November 14, 2014, to amended by the interim rule published effective January 16, 2017, as delayed at read as follows:

TABLE II TO PART 150—GROUPING OF CARGOES

0. UNASSIGNED CARGOES

- Acetone cyanohydrin
- Alkenoic acid, polyhydroxy ester borated
- Alkyl benzene distillation bottoms
- Alkyl (C11–C17) benzene sulfonic acid
- Alkylbenzene sulfonic acid (less than 4%)
- Alkyl (C18–C28) toluenesulfonic acid
- Aluminum chloride/Hydrochloric acid solution
- Aluminum chloride/Hydrogen chloride solution
- Ammonium hydrogen phosphate solution
- Ammonium nitrate solution (45% or less)
- Ammonium nitrate solution (93% or less)
- Ammonium thiocyanate/Ammonium thiosulfate solution
- Argon, liquefied
- Benzenesulfonyl chloride ¹
- gamma-Butyrolactone ¹
- Carbon dioxide (high purity)
- Carbon dioxide (reclaimed quality)
- Carbon dioxide, liquefied
- Chlorine
- 2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution
- Chlorosulfonic acid
- Decyloxytetrahydrothiophene dioxide
- 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less) ¹
- Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution ¹
- Dimethyl disulfide
- Diphenylol propane-Epichlorohydrin resins
- tert-Dodecanethiol ¹
- Dodecyl hydroxypropyl sulfide ¹
- Dodecylbenzenesulfonic acid ¹

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Ethylene oxide
 Fuming sulfuric acid
 Hydrogen peroxide solutions (over 60% but not over 70% by mass)
 Hydrogen peroxide solutions (over 8% but not over 60% by mass)
 Hydrogenated starch hydrolysate
 Lactic acid¹
 Liquid chemical wastes
 Long-chain alkaryl sulfonic acid (C16–C60)¹
 Magnesium chloride solution¹
 Maltitol solution
 Methylcyclopentadienyl manganese tricarbonyl
 Methylcyclopentadienyl manganese tricarbonyl (60–70%) in mineral oil
 Molasses residue (from fermentation)
 Molybdenum polysulfide long-chain alkyl dithiocarbamide complex
 Motor fuel anti-knock compound (containing lead alkyls)
 Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution
 NIAX POLYOL APP 240C¹
 Nitrating acid (mixture of Sulfuric and Nitric acids)
 Nitric acid (70% and over)¹
 Nitric Acid, fuming
 Nitric Acid, red fuming
 Nitrogen
 o-Nitrophenol (molten)¹
 Non-noxious Liquid Substance, (12) n.o.s. Cat OS
 Noxious Liquid Substance, NF, (1) n.o.s. Cat X
 Noxious Liquid Substance, F, (2) n.o.s. Cat X
 Noxious Liquid Substance, NF, (3) n.o.s. Cat X
 Noxious Liquid Substance, F, (4) n.o.s. Cat X
 Noxious Liquid Substance, NF, (5) n.o.s. Cat Y
 Noxious Liquid Substance, F, (6) n.o.s. Cat Y
 Noxious Liquid Substance, NF, (7) n.o.s. Cat Y
 Noxious Liquid Substance, F, (8) n.o.s. Cat Y
 Noxious Liquid Substance, NF, (9) n.o.s. Cat Z
 Noxious Liquid Substance, F, (10) n.o.s. Cat Z
 Noxious Liquid Substance, (11) n.o.s. Cat Z
 n-Octyl Mercaptan
 Oleum¹
 Orange juice (concentrated)
 Orange juice (not concentrated)
 Oxygenated aliphatic hydrocarbon mixture
 Phosphorus, yellow or white
 Phosphosulfurized bicycle terpene
 Phthalate based polyester polyol¹
 Potassium polysulfide/Potassium thiosulfide solution (41% or less)
 2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution
 Refrigerant gases
 Sodium chlorate solution (50% or less)¹
 Sodium dichromate solution (70% or less)¹
 Sodium hydrogen sulfide (6% or less)/Sodium carbonate (3% or less) solution¹
 Sodium methoxide (25% in methanol)
 Sodium methylate 21–30% in methanol
 Sodium sulfide/Hydrosulfide solution (H₂S 15 ppm or less)
 Sodium sulfide/Hydrosulfide solution (H₂S greater than 15 ppm but less than 200 ppm)¹
 Sodium sulfide/Hydrosulfide solution (H₂S greater than 200 ppm)
 Sodium thiocyanate solution (56% or less)¹
 Sulfur (molten)
 Sulfur dioxide
 Tall oil fatty acid, barium salt¹
 Tetraethyl silicate monomer/oligomer (20% in ethanol)
 Urea, Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution
 Wood lignin with Sodium acetate/oxalate
 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
 Hydrofluorosilicic acid, (25% or less)
 Phosphoric acid
 Polyaluminum chloride solution
 2. SULFURIC ACIDS
 Sulfuric acid¹

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Sulfuric acid, spent
 Titanium tetrachloride
 3. NITRIC ACID
 Ferric nitrate/Nitric acid solution
 Nitric acid (less than 70%)
 4. ORGANIC ACIDS
 Acetic acid ¹
 Acrylic acid ¹
 Butyric acid
 Chloroacetic acid (80% or less)
 2- or 3-Chloropropionic acid
 Citric acid (70% or less)
 Decanoic acid
 2,2-Dichloropropionic acid
 Dimethyl octanoic acid
 2-Ethylhexanoic acid
 Formic acid ¹
 Formic acid (85% or less)
 Formic acid (over 85%)
 Formic acid mixture (containing up to 18% Propionic acid and up to 25% Sodium formate)
 Glycolic acid solution (70% or less)
 Glyoxylic acid solution (50% or less)
 n-Heptanoic acid
 1,6-Hexanediol, distillation overheads
 Hexanoic acid
 2-Hydroxy-4-(methylthio)butanoic acid
 Jatropha oil
 Long-chain alkyl (C13+) salicylic acid
 Methacrylic acid
 Naphthenic acid
 Neodecanoic acid
 Nonanoic acid (all isomers)
 Nonanoic/Tridecanoic acid mixture
 Octanoic acid (all isomers)
 Oleic acid
 Pentanoic acid
 n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture
 Propionic acid
 Trimethylacetic acid
 Undecanoic acid
 5. CAUSTICS
 Aluminum hydroxide/sodium hydroxide/sodium carbonate solution (40% or less)
 Ammonium sulfide solution (45% or less)
 Calcium hydroxide slurry
 Calcium hypochlorite solution (15% or less)
 Calcium hypochlorite solution (more than 15%)
 Caustic potash solution ¹
 Caustic soda solution ¹
 Cresylate spent caustic
 Cresylic acid, sodium salt solution
 1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution
 Kraft black liquor
 Kraft pulping liquors (free alkali content 3% or more) (Black, Green, or White)
 Magnesium hydroxide slurry
 Mercaptobenzothiazol, sodium salt solution
 2-Mercaptobenzothiazol (in liquid mixture)
 Potassium hydroxide solution ¹
 Sodium acetate, Glycol, Water mixture (1% or less Sodium hydroxide) (if non-flammable or non-combustible)
 Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide)
 Sodium aluminate solution
 Sodium aluminate solution (45% or less)
 Sodium borohydride (15% or less)/Sodium hydroxide solution
 Sodium carbonate solutions
 Sodium cyanide solution
 Sodium hydrosulfide solution (45% or less) ¹
 Sodium hydrosulfide/Ammonium sulfide solution ¹
 Sodium hydroxide solution ¹
 Sodium hypochlorite solution (15% or less)
 Sodium hypochlorite solution (20% or less)
 Sodium 2-mercaptobenzothiazol solution
 Sodium nitrite solution
 Triphenylborane (10% or less)/Caustic soda solution

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Trisodium phosphate solution
Vanillin black liquor (free alkali content 3% or more)
6. AMMONIA
Ammonia, anhydrous
Ammonia, aqueous (28% or less Ammonia)
Ammonium hydroxide (28% or less Ammonia)
Ammonium nitrate/Urea solution (containing Ammonia)
Urea/Ammonium nitrate solution (containing 1% or more Ammonia)
7. ALIPHATIC AMINES
Alkyl amine (C17+)
Alkyl (C12+) dimethylamine
N-Aminoethylpiperazine
Butylamine (all isomers)
Crude piperazine
Cyclohexylamine
Dibutylamine
Diethylamine¹
Diethylenetriamine¹
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
Dimethyldodecylamine
N,N-Dimethyldodecylamine
Di-n-propylamine
Dodecylamine/Tetradecylamine mixture
Dodecyldimethylamine/Tetradecyldimethylamine mixture
Ethoxylated tallow alkyl amine
Ethoxylated tallow alkyl amine, glycol mixture
Ethoxylated tallow amine (≤95%)
Ethylamine¹
Ethylamine solution (72% or less)
N-Ethylbutylamine
N-ethylcyclohexylamine
Ethyleneamine EA 1302¹
Ethylenediamine¹
2-Ethylhexylamine
N-ethylmethylallylamine
Glycine, sodium salt solution
Glyphosate solution (not containing surfactant)
Hexamethylenediamine (molten)
Hexamethylenediamine solution
Hexamethyleneimine
Hexamethylenetetramine solutions
bis (Hydrogenated tallow alkyl) methyl amines
Isophorone diamine
Isopropylamine
Isopropylamine (70% or less) solution
iso-Propylamine solution
Long-chain alkyl amine
Long-chain polyetheramine in alkyl(C2–C4)benzenes
Metam sodium solution
Methylamine solutions (42% or less)
2-Methyl-1,5-pentanediamine
Monoethylamine
Morpholine¹
Oleylamine
Pentaethylenehexamine
Pentaethylenehexamine/Tetraethylenepentamine mixture
Phosphate esters, alkyl(C12–C14)amine
Piperazine (70% or less)
Piperazine (crude)
Piperazine, 68% solution
Polyalkenyl succinic anhydride amine
Polyethylene polyamines¹
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/Molybdenum oxysulfide mixture

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

O. UNASSIGNED CARGOES

Polyolefin amine (C17+)
 Polyoxypropylenediamine (MW 2000)
 n-Propylamine
 ROUNDUP
 Sodium N-methyl dithio carbamate solution
 Sulfohydrocarbon, long-chain (C18+) alkylamine mixture
 Tetraethylenepentamine¹
 Triethylamine
 Triethylenetetramine¹
 Trimethylamine solution (30% or less)
 Trimethylhexamethylenediamine (2,2,4- and 2,4,4-)
 8. ALKANOLAMINES
 Alkyl (C12–C16) propoxyamine ethoxylates
 Aminoethyldiethanolamine/Aminoethylethanolamine solution
 2-(2-Aminoethoxy)ethanol
 Aminoethylethanolamine
 2-Amino-2-methyl-1-propanol
 Diethanolamine
 Diethylaminoethanol
 Diethylethanolamine
 Diisopropanolamine
 Dimethylethanolamine¹
 Ethanolamine
 Ethoxylated alkyloxy alkyl amine
 Ethoxylated long-chain (C16+) alkyloxyalkylamine
 Isopropanolamine
 Isopropanolamine solution
 iso-Propanolamine
 Linear alkyl (C12–C16) propoxyamine ethoxylates
 Methyl diethanolamine
 Monoethanolamine
 Monoisopropanolamine
 n-Propanolamine
 Triethanolamine
 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 (molten)
 Diphenylamine, reaction product with 2,2,4-trimethylpentene
 Diphenylamines, alkylated
 2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline
 N-Methylaniline
 2-Methyl-6-ethyl aniline
 N-Methyl-5-ethylpyridine
 Methylpyridine
 2-Methylpyridine
 3-Methylpyridine
 4-Methylpyridine
 N-Methyl-2-pyrrolidone¹
 Paraldehyde-Ammonia reaction product
 Polyolefin phenolic amine (C28–C250)
 Pyridine
 Pyridine bases
 Toluenediamine
 o-Toluidine
 10. AMIDES
 Acetochlor
 Acrylamide solution (50% or less)
 Alkenyl (C11+) amide
 N,N-Dimethylacetamide
 N,N-Dimethylacetamide solution (40% or less)
 Dimethylformamide
 Formamide

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

N,N-bis(2-Hydroxyethyl) oleamide
Octadecenoamide solution
Oleamide solution
Organomolybdenum amide
Polyalkyl alkenamine succinimide, molybdenum oxysulfide
Polybutenyl succinimide
Polyisobutenyl succinimide
Sulfurized polyolefinamide
Zinc alkenyl carboxamide
11. ORGANIC ANHYDRIDES
Acetic anhydride
Alkenyl (C16–C20) succinic anhydride
Alkyl succinic anhydride
Maleic anhydride
Maleic anhydride/sodium allylsulphonate copolymer solution
Phthalic anhydride (molten)
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 ACETATE
Vinyl acetate
Vinyl ethyl ether
Vinyl neodecanoate
Vinyltoluene
14. ACRYLATES
Butyl acrylate (all isomers)
Butyl methacrylate
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture
Butyl/Decyl/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 acrylate¹
Isobutyl methacrylate
Methacrylic resin in ethylene dichloride
Methyl acrylate
Methyl methacrylate
Nonyl methacrylate monomer
Polyalkyl acrylate
Polyalkyl(C18–C22) acrylate in Xylene
Polyalkyl (C10–C20) methacrylate
Polyalkyl methacrylate in mineral oil
Polyalkyl(C10–C18)methacrylate/Ethylene propylene copolymer mixture
15. SUBSTITUTED ALLYLS
Acrylonitrile¹
Allyl alcohol¹
Allyl chloride
Dichloropropene (all isomers)
1,3-Dichloropropene
Dichloropropene/Dichloropropane mixtures
Methacrylonitrile
16. ALKYLENE OXIDES
Brominated Epoxy Resin in Acetone
1,2-Butylene oxide
Diglycidyl ether of Bisphenol A
Diglycidyl ether of Bisphenol F
Epoxy resin
Ethylene oxide/Propylene oxide mixture
Ethylene oxide/Propylene oxide mixture with an Ethylene oxide content not more than 30% by mass

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Propylene oxide
 17. EPICHLOROHYDRIN
 Chlorohydrins
 Chlorohydrins (crude)
 Epichlorohydrin
 18. KETONES
 Acetone ¹
 Acetophenone
 Amyl methyl ketone
 2-Butanone
 Butyl heptyl ketone
 Butyl methyl ketone
 Camphor oil (light)
 1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one ¹
 Cyclohexanone
 Cyclohexanone/Cyclohexanol mixtures
 Diisobutyl ketone
 Ethyl amyl ketone
 Isophorone
 Ketone residue
 Mesityl oxide ¹
 Methyl amyl ketone
 Methyl butyl ketone
 Methyl ethyl ketone ¹
 Methyl heptyl ketone
 Methyl isoamyl ketone
 Methyl isobutyl ketone ¹
 Methyl propyl ketone
 beta-Propiolactone
 19. ALDEHYDES
 Acetaldehyde
 Acrolein ¹
 Butyraldehyde (all isomers)
 Crotonaldehyde ¹
 Crude isononylaldehyde
 Decaldehyde
 2-Ethylhexaldehyde
 2-Ethyl-3-propylacrolein ¹
 Formaldehyde (50% or more)/Methanol mixtures ¹
 Formaldehyde solutions (37%—50%) ¹
 Formaldehyde solutions (45% or less) ¹
 Furfural
 Glutaraldehyde solutions (50% or less)
 Glyoxal solution (40% or less)
 Isononylaldehyde (crude)
 3-Methyl butyraldehyde
 Methylolureas
 3-(Methylthio)propionaldehyde
 Octyl aldehydes
 Paraldehyde
 Pentyl aldehyde
 Propionaldehyde
 Valeraldehyde (all isomers)
 20. ALCOHOLS, GLYCOLS
 Acrylonitrile-Styrene copolymer dispersion in Polyether polyol
 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
 Alcohol (C12–C15) poly (. . .) ethoxylates
 Alcohol polyethoxylates
 Alcohol polyethoxylates, secondary
 Alcoholic beverages, n.o.s.
 Alcohols (C12+), primary, linear
 Alcohols (C8–C11), primary, linear and essentially linear
 Alcohols (C12–C13), primary, linear and essentially linear
 Alcohols (C14–C18), primary, linear and essentially linear
 Alcohols (C13+)
 Cetyl Alcohol (hexadecanol)
 Oleyl Alcohol (octadecanol)

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Pentadecanol
Tallow alcohol
Tetradecanol
Tridecanol
Amyl alcohol, primary
n-Amyl alcohol
sec-Amyl alcohol
tert-Amyl alcohol
Behenyl alcohol
Bio-fuel blends of Gasoline and Ethyl alcohol ($\leq 25\%$ but $< 99\%$ by volume)
Brake fluid base mix: Poly (2–8) alkylene (C2–C3) glycols/Polyalkylene (C2–C10) glycols monoalkyl (C1–C4) ethers and their borate esters
1,4-Butanediol
2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)
Butyl alcohol (all isomers)¹
Butyl alcohol (iso-, n-, sec-, tert-)
Butylene glycol
Cetyl/Stearyl alcohol
Choline chloride solutions
Crude isopropanol
Cyclohexanol
Decyl alcohol (all isomers)¹
Decyl/Dodecyl/Tetradecyl alcohol mixture
Diacetone alcohol¹
Dibutyl carbinol
Diethyl hexanol
Diisobutyl carbinol
2,2-Dimethylpropane-1,3-diol (molten or solution)
Dodecanol (all isomers)
Dodecyl alcohol (all isomers)
Ethoxylated alcohols , C11–C15
2-Ethylhexanol
Ethyl alcohol¹
Ethyl butanol
Ethylene chlorohydrin
Ethylene cyanohydrin
Ethylene glycol¹
Furfuryl alcohol¹
Glycerine¹
Glycerine (83%)/Dioxanedimethanol (17%) mixture
Glycerol
Glycerol monooleate
Glycol mixture, crude
Heptanol (all isomers)
Hexadecanol (cetyl alcohol)
Hexaethylene glycol
Hexamethylene glycol
Hexanol
Hexylene glycol
Isoamyl alcohol
Isobutyl alcohol
Isopropyl alcohol
Methacrylic acid—Alkoxy poly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)
3-Methoxy-1-butanol
Methyl alcohol¹
Methyl amyl alcohol
alpha-Methylbenzyl alcohol with Acetophenone (15% or less)
Methyl butanol
Methyl butenol
Methyl 3- (3,5 di-tert-butyl-4-hydroxyphenyl) propionate crude melt
Methylbutynol
Methylcyclohexanemethanol (crude)
2-Methyl-2-hydroxy-3-butyne
Methyl isobutyl carbinol
3-Methyl-3-methoxybutanol
2-Methyl-1,3-propanediol
Molasses
Nonyl alcohol (all isomers)¹
1-Octadecanol
Octadecenol (oleyl alcohol)
Octanol (all isomers)¹
Octyl alcohol¹
Pentacosyl alcohol (oxypropane-2,3-diyl)s

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Pentaethylene glycol
 Polyalkylene oxide polyol
 Polybutadiene, hydroxyl terminated
 Polyglycerine/Sodium salts solution (containing less than 3% Sodium hydroxide)¹
 Polyglycerol
 Polyolefin amide alkeneamine polyol
 n-Propyl alcohol¹
 Propylene glycol¹
 Rum
 Sorbitol solution
 Stearyl alcohol
 Tallow alcohol
 Tallow fatty alcohol (C13+)
 Trimethyl nonanol
 Trimethylol propane polyethoxylated
 Undecanol
 Undecyl alcohol
 Wine
 21. PHENOLS, CRESOLS
 Alkyl (C4–C9) phenols
 Alkylated (C4–C9) hindered phenols
 Benzyl alcohol
 Carbolic oil
 Creosote¹
 Creosote (coal tar)
 Creosote (wood tar)
 Cresols (all isomers)
 Cresols with 5% or more Phenol
 Cresols with less than 5% Phenol
 Cresylic acid
 Cresylic acid, dephenolized
 Cresylic acid tar
 Cresylic acid with 5% or more phenol
 Dibutylphenols
 Di-tert-butylphenol
 2,4-Di-tert-butylphenol
 2,6-Di-tert-butylphenol
 2,4-Dichlorophenol
 Dodecyl phenol
 o-Ethyl phenol
 Long-chain alkylphenate/Phenol sulfide mixture
 Methylene bridged isobutylene phenols
 Nonyl phenol
 Nonylphenol (48–62%)/Phenol (42–48%)/Dinonylphenol (1–10%) mixture
 Octyl phenol
 Phenol
 Tertiary butylphenols
 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
 tert-Amylenes
 Aryl polyolefin (C11–C50)
 Butadiene (all isomers)
 Butadiene/Butylene mixtures (containing Acetylenes)
 Butene oligomer
 Butene
 Butylenes (all isomers)
 1,5,9-Cyclododecatriene
 Cyclopentadiene/Styrene/Benzene mixture
 1,3-Cyclopentadiene dimer (molten)
 Cyclopentene
 Decene
 Dicyclopentadiene, Resin Grade, 81–89%
 Dicyclopentadiene
 Diisobutylene
 Dipentene
 Dodecene (all isomers)

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Ethylene
Ethylidene norbornene ¹
Heptene (all isomers)
Hexene (all isomers)
Isoprene (all isomers)
Isoprene (part refined)
Isoprene concentrate (Shell)
Latex, ammonia (1% or less)- inhibited
d-Limonene
Methyl acetylene/Propadiene mixture
Methyl butenes
Methylcyclopentadiene dimer
4-Methyl-1-pentene
2-Methyl-1-pentene
alpha-Methylstyrene
Mixed C4 Cargoes
Myrcene
Nonene (all isomers)
1-Octadecene
Octene (all isomers)
Olefin-Alkyl ester copolymer (molecular weight 2000+)
Olefin mixture (C7–C9) C8 rich, stabilized
Olefin mixtures (C5–C7)
Olefin mixtures (C5–C15)
Olefins (C13+, all isomers)
alpha-Olefins (C6–C18) mixtures
1,3-Pentadiene
1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures
Pentene (all isomers)
PIB
alpha-Pinene
beta-Pinene
Piperylene concentrate
Poly (4+) isobutylene
Polyolefin in mineral oil
Poly (5+) propylene
Propylene
Propylene-butylene copolymer
Propylene dimer
Propylene tetramer
Propylene trimer
Propylene/Propane/MAPP gas mixture
Styrene monomer
Tetradecene
Tridecene
Triisobutylene
Tripropylene
Turpentine
Undecene
1-Undecene
31. PARAFFINS
Alkanes (C10–C26), linear and branched (flash point >60 °C)
Alkanes (C6–C9)
n-Alkanes (C10+) (all isomers)
iso- & cyclo-Alkanes (C10–C11)
iso- & cyclo-Alkanes (C12+)
Butane (all isomers)
Butane/Propane mixture
Cycloheptane
Cyclohexane
Cyclopentane
Decane (all isomers)
Dodecane (all isomers)
Ethane
Ethyl cyclohexane
Ethylene-Propylene copolymer (in liquid mixtures)
Heptadecane (all isomers)
Heptane (all isomers)
Hexane ¹ (all isomers)
Hydroxy terminated polybutadiene
iso-Propyl cyclohexane
Isopropylcyclohexane

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Liquefied Natural Gas
 Methane
 Methylcyclohexane
 2-Methyl pentane
 Nonane (all isomers)
 Octane (all isomers)
 Paraffin wax
 n-Paraffins (C10–C20)
 Pentane (all isomers)
 Polyalpha olefins
 Propane
 Tridecane (all isomers)
 Undecane (all isomers)
 32. AROMATIC HYDROCARBONS
 Alkyl acrylate-Vinyl pyridine copolymer in Toluene
 Alkyl (C3–C4) benzenes
 Butylbenzenes
 Cumene
 Propylbenzene
 Alkyl (C5–C8) benzenes
 Amylbenzenes
 Heptylbenzenes
 Hexylbenzenes
 Octylbenzenes
 Alkyl (C9+) benzenes
 Decylbenzenes
 Dodecylbenzenes
 Nonylbenzenes
 Tetradecylbenzenes
 Tetrapropylbenzenes
 Tridecylbenzenes
 Undecylbenzenes
 Alkylbenzene mixtures (containing at least 50% of Toluene)
 Alkylbenzene, Alkylindane, Alkylindene mixture (each C12–C17)
 Alkyl toluene
 Alkyl (C18+) toluenes
 Benzene
 Benzene and mixtures having 10% Benzene or more
 Benzene hydrocarbon mixtures (containing Acetylenes) (having 10% Benzene or more)
 Benzene/Toluene/Xylene mixtures (having 10% Benzene or more)
 Butylbenzene (all isomers)
 Butyl phenol, Formaldehyde resin in Xylene
 Butyl toluene
 C9 Resinfeed (DSM) ¹
 p-Cymene
 Detergent alkylate
 Dialkyl (C10–C14) benzenes
 Diethylbenzene
 Diisopropylnaphthalene
 Diisopropylbenzene (all isomers)
 Dimethylbenzene
 Diphenyl
 Dodecyl xylene
 Ethylbenzene
 Ethyl toluene
 Gasolines: Pyrolysis (containing Benzene)
 1-Hexadecylnaphthalene/1,4-bis(Hexadecyl)naphthalene mixture
 1-n-Hexadecylnaphthalene (90%)/1,4-di-n-(Hexadecyl)naphthalene (10%)
 Hexylbenzenes
 Isopropylbenzenes
 Methyl naphthalene (molten)
 Naphthalene (molten)
 Naphthalene still residue
 Parachlorobenzotrifluoride
 1-Phenyl-1-xylyl ethane
 Poly(2+)cyclic aromatics
 Polyolefinamine in alkyl(C2–C4)benzenes
 Polyolefinamine in aromatic solvent
 Propylbenzenes (all isomers)
 Pseudocumene
 Pyrolysis gasoline (containing Benzene)
 Tetrahydronaphthalene

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Tetramethylbenzene (all isomers)
1,2,3,5-Tetramethylbenzene
Toluene
Triethylbenzene
Trimethylbenzene (all isomers)
Xylenes
Xylenes/Ethylbenzene (10% or more) mixture
33. MISCELLANEOUS HYDROCARBON MIXTURES
Alachlor technical (90% or more)
Alkylbenzene sulfonic acid, sodium salt solution
Alkyl dithiothiadiazole (C6–C24)
Alkyl (C18–C28) toluenesulfonic acid, Calcium salts, low overbase
Alkyl (C18–C28) toluenesulfonic acid, calcium salts, high overbase
Anthracene oil (Coal tar fraction)
Asphalt
Asphalt blending stocks, roofers flux
Asphalt blending stocks, straight run residue
Asphalt emulsion
Asphalt, kerosene, and other components
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95–120°C)
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)
Calcium sulfonate/Calcium carbonate/Hydrocarbon solvent mixture
Coal tar
Coal tar crude bases
Coal tar distillate
Coal tar pitch (molten)
Coal tar, high temperature
Decahydronaphthalene
Diphenyl/Diphenyl ether mixture
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 (containing not over 4.86 grams lead per gal.)
Casinghead (natural)
Polymer
Straight run
Jet fuels:
JP–4
JP–5
JP–8
Kerosene
Mineral spirits
Naphtha:
Aromatic
Coal tar naphtha solvent
Heavy
Paraffinic
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

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Gas, cracked
 Gas, high pour
 Gas, low pour
 Gas, low sulfur
 Heartcut distillate
 Linseed
 Lubricating
 Mineral
 Mineral seal
 Motor
 Neatsfoot
 Penetrating
 Pine
 Residual
 Resin, distilled
 Road
 Rosin
 Spindle
 Transformer
 Turbine
 Vacuum gas oil
 ORIMULSION
 Oxyalkylated alkyl phenol formaldehyde
 Petrolatum
 Petroleum wax
 Polybutene
 Polyolefin (molecular weight 300+)
 Polyolefin amide alkeneamine (C17+)
 Polyolefin amide alkeneamine (C28+),
 Polyolefin amide alkeneamine borate (C28–C250)
 Polyolefin amide alkeneamine in mineral oil
 Polyolefinamine (C28–C250)
 Sulfohydrocarbon (C3–C88)
 Sulfurized fat (C14–C20)
 Sulfurized polyolefinamide alkene(C28–C250) amine
 Turpentine substitute
 White spirit
 White spirit (low (15–20%) aromatic)
 34. ESTERS
 Alkane (C14–C17) sulfonic acid, sodium salt solutions
 Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomer)
 Alkyl (C8+) amine, Alkenyl (C12+) acid ester mixture
 Alkyl dithiocarbamate (C19–C35)
 Alkyl ester copolymer (C4–C20)
 Alkyl ester copolymer in mineral oil
 Alkyl phenol sulfide (C8–C40)
 Alkyl (C8–C40) phenol sulfide
 Alkyl phthalates
 Alkyl (C10–C20), saturated and unsaturated phosphite
 Alkyl (C7–C9) nitrates¹
 Alkyl sulfonic acid ester of phenol
 Alkyl (C18–C28) toluenesulfonic acid, Calcium salts, borated
 Amyl acid phosphate
 Amyl acetate (all isomers)
 Animal and Fish oils, n.o.s.
 Cod liver oil
 Lanolin
 Neatsfoot oil
 Pilchard oil
 Sperm oil
 Animal and Fish acid oils and distillates, n.o.s.
 Animal acid oil
 Fish acid oil
 Lard acid oil
 Mixed acid oil
 Mixed general acid oil
 Mixed hard acid oil
 Mixed soft acid oil
 Barium long-chain alkaryl (C11–C50) sulfonate
 Barium long-chain alkyl (C8–C14) phenate sulfide
 Benzenetricarboxylic acid, trioctyl ester
 Benzyl acetate

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

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)
Bis (2-ethylhexyl) terephthalate
Boronated calcium sulfonate
Butyl acetate (all isomers)
Butyl benzyl phthalate
Butyl butyrate (all isomers)
n-Butyl formate
n-Butyl propionate
Butyl stearate
Calcium alkaryl sulfonate (C11–C50)
Calcium alkyl (C10–C28) salicylate
Calcium alkyl salicylate
Calcium alkyl (C9) phenol sulfide, polyolefin phosphorosulfide mixture
Calcium carbonate slurry
Calcium long-chain alkaryl sulfonate (C11–C50)
Calcium long-chain alkyl (C8–C40) phenate
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 (C18–C28) salicylate
Calcium long-chain alkyl salicylate (C13+)
Calcium nitrate solutions (50% or less)
Calcium nitrate/Magnesium nitrate/Potassium chloride solution
Calcium salts of fatty acids
Calcium stearate
Canola oil
Cobalt naphthenate in solvent naphtha
Copper salt of long-chain (C17+) alkanolic acid
Copper salt of long-chain (C3–C16) fatty acid
Cyclohexyl acetate
Decyl acetate
Dialkyl (C9–C10) phthalates
Dialkyl thiophosphates sodium salts solution
Dialkyl (C7–C13) phthalates
Di-(2-ethylhexyl) phthalate
Diheptyl phthalate
Dihexyl phthalate
Diisooctyl phthalate
Dioctyl phthalate
Diisodecyl phthalate
Diisononyl phthalate
Dinonyl phthalate
Ditridecyl phthalate
Diundecyl phthalate
Dibutyl hydrogen phosphonate
Dibutyl phthalate
Dibutyl terephthalate
Di-(2-ethylhexyl) adipate
Di-(2-ethylhexyl) terephthalate
Diethylene glycol dibenzoate
Diethylene glycol phthalate
Diethyl phthalate
Diethyl sulfate
Di-n-hexyl adipate
Diisobutyl phthalate
Diisononyl adipate
Dimethyl adipate
Dimethylcyclicsiloxane hydrolyzate
Dimethyl glutarate
Dimethyl hydrogen phosphite¹
Dimethyl naphthalene sulfonic acid, sodium salt solution¹
Dimethyl phthalate
Dimethylpolysiloxane
Dimethyl succinate
Dipropylene glycol dibenzoate
Dithiocarbamate ester (C7–C35)
Ditridecyl adipate
2-Dodecenylsuccinic acid, dipotassium salt solution
2-Ethoxyethyl acetate
Ethyl acetate

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

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 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
Ethyl hexyl tallate
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8–C10) ester
Ethyl lactate
Ethyl propionate
Fatty acid methyl esters
Fatty acids, (C8–C10)
Fatty acids, (C12+)
Fatty acids (saturated, C13+)
Fatty acids (saturated, C14+)
Fatty acids, (C16+)
Fatty acids, essentially linear (C6–C18) 2-ethylhexyl ester
Glyceryl triacetate
Glycidyl ester of C10 trialkyl acetic acid
Glycidyl ester of tertiary carboxylic acid
Glycidyl ester of tridecyl acetic acid
Glycidyl ester of Versatic acid
Glycol diacetate
Glycol triacetate
Heptyl acetate
Herbicide (C15–H22–NO2-Cl)
Hexyl acetate
Hog grease
Isobutyl formate
Isopropyl acetate
Lauric acid
Lauric acid methyl ester/Myristic acid methyl ester mixture
Lecithin
Magnesium long-chain alkaryl sulfonate (C11–C50)
Magnesium long-chain alkyl phenate sulfide (C8–C20)
Magnesium long-chain alkyl salicylate (C11+)
Magnesium nonyl phenol sulfide
Magnesium sulfonate
3-Methoxybutyl acetate
1-Methoxy-2-propyl acetate
Methyl acetate
Methyl acetoacetate
Methyl amyl acetate
Methyl butyrate
Methyl formate
3-Methyl-3-methoxybutyl acetate
Methyl salicylate
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide
Metolachlor
Naphthalene sulfonic acid, sodium salt solution
Nitrilotriacetic acid, trisodium salt solution
Nonyl acetate
Nonyl phenol sulfide (90% or less) solution
Octamethylcyclotetrasiloxane
n-Octyl acetate
Octyl decyl adipate
Octyl nitrate
Octyl phthalate
Oil, edible:
Beechnut
Castor
Cocoa butter
Coconut
Cod liver
Corn

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Cotton seed
Fish
Grape seed
Groundnut
Hazelnut
Illipe
Lard
Maize
Mango kernel
Nutmeg butter
Olive
Palm
Palm kernel
Palm kernel olein
Palm kernel stearin
Palm mid fraction
Palm olein
Palm stearin
Peanut
Poppy
Poppy Seed
Raisin seed
Rapeseed
Rapeseed, (low erucic acid containing less than 4% free fatty acids)
Rice bran
Safflower
Salad
Sesame
Shea
Soyabean
Sunflower
Sunflower seed
Tucum
Vegetable
Walnut
Oil, misc:
Acid mixture from soybean, corn (maize) and sunflower oil refining
Animal
Camelina
Cashew nut shell oil (untreated)
Coconut fatty acid
Coconut, fatty acid methyl ester
Cotton seed oil, fatty acid
Lanolin
Oiticica
Palm acid
Palm fatty acid distillate
Palm oil, fatty acid methyl ester
Palm kernel acid
Palm kernel fatty acid distillate
Palm, non-edible industrial grade
Perilla
Pilchard
Rapeseed fatty acid methyl esters
Seal
Soapstock
Soyabean (epoxidized)
Soyabean fatty acid methyl ester
Tall
Tall, crude
Tall, distilled
Tall, fatty acid
Tall, fatty acid (resin acids less than 20%)
Tall pitch
Tung
n-Pentyl propionate
Phosphate esters
Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetate
Diethylene glycol butyl ether acetate
Diethylene glycol ethyl ether acetate
Diethylene glycol methyl ether acetate
Polycarboxylic ester (C9+)

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Polydimethylsiloxane
 Polyferric sulfate solution
 Polymerized esters
 Polymethylsiloxane
 Polyolefin aminoester salts (MW 2000+)
 Polyolefin ester (C28–C250)
 Polyolefin phosphorosulfide, barium derivative (C28–C250)
 Poly(20)oxyethylene sorbitan monooleate
 Polysiloxane
 Polysiloxane/White spirit, low (15–20%) aromatic
 Potassium formate solutions
 Potassium oleate
 Potassium salt of polyolefin acid
 n-Propyl acetate
 Propylene carbonate
 Propylene glycol methyl ether acetate
 Siloxanes
 Sodium acetate solutions
 Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide)
 Sodium alkyl (C14–C17) sulfonates (60–65% solution)
 Sodium aluminosilicate slurry
 Sodium benzoate
 Sodium bicarbonate solution (less than 10%)
 Sodium dimethyl naphthalene sulfonate solution¹
 Sodium long-chain alkyl salicylate (C13+)
 Sodium naphthalene sulfonate solution
 Sodium petroleum sulfonate
 Sodium sulfate solution
 Stearic acid
 Tallow
 Tallow fatty acid
 Triarylphosphate
 Tributyl phosphate
 Tricresyl phosphate (containing 1% or more ortho-isomer)
 Tricresyl phosphate (containing less than 1% ortho-isomer)
 Tridecanoic acid
 Tridecyl acetate
 Triethylene glycol di-(2-ethylbutyrate)
 Triethylene glycol dibenzoate
 Triethyl phosphate
 Triethyl phosphite¹
 Triisooctyl trimellitate¹
 Triisopropylated phenyl phosphates
 Trimethyl phosphite¹
 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
 Trisodium nitrilotriacetate solution
 Trixylyl phosphate
 Trixylenyl phosphate
 Vegetable acid oils, n.o.s.
 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, n.o.s.
 Palm kernel fatty acid distillate
 Palm oil fatty acid distillate
 Tall fatty acid distillate
 Tall oil fatty acid distillate
 Vegetable oils, n.o.s.
 Beechnut oil
 Camelina oil
 Cashew nut shell

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Castor oil
Cocoa butter
Coconut oil
Corn oil
Cotton seed oil
Croton oil
Grape seed oil
Groundnut oil
Hazelnut oil
Illipe oil
Linseed oil
Mango kernel oil
Nutmeg butter
Oiticica oil
Olive oil
Palm kernel oil
Palm kernel olein
Palm kernel stearin
Palm mid fraction
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)
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
Waxes:
Candelilla
Carnauba
Zinc alkaryl dithiophosphate (C7–C16)
Zinc alkyl dithiophosphate (C3–C14)
35. VINYL HALIDES
Vinyl chloride
Vinylidene chloride
36. HALOGENATED HYDROCARBONS
Benzyl chloride
Bromochloromethane
Carbon tetrachloride ¹
Catoxid feedstock ¹
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
m-Chlorotoluene
o-Chlorotoluene
p-Chlorotoluene
Chlorotoluenes (mixed isomers)
Dibromomethane

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Dichlorobenzene (all isomers)
3,4-Dichloro-1-butene
Dichlorodifluoromethane
1,1-Dichloroethane
1,6-Dichlorohexane
Dichloromethane
Dichloropropane
1,1-Dichloropropane
1,2-Dichloropropane
1,3-Dichloropropane
Ethyl chloride
Ethylene dibromide
Ethylene dichloride¹
Methyl bromide
Methyl chloride
Methylene chloride
Monochlorodifluoromethane
Pentachloroethane
Perchloroethylene
n-Propyl chloride
Sym-trichlorobenzene
Tetrachloroethane
1,1,2,2-Tetrachloroethane
1,2,3-Trichlorobenzene (molten)
1,2,4-Trichlorobenzene
1,2,3-Trichlorobenzol
1,1,1-Trichloroethane¹
1,1,2-Trichloroethane
Trichloroethylene¹
1,1,2-Trichloro-1,2,2-trifluoroethane
1,2,3-Trichloropropane

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 alkyl nitrile

38. CARBON DISULFIDE
Carbon disulfide

39. SULFOLANE
Sulfolane

40. GLYCOL ETHERS
Alkyl (C7–C11) phenol poly (4–12) ethoxylates
Alkyl (C9–C15) phenyl propoxylate
Diethylene glycol¹
Diethylene glycol dibutyl ether
Diethylene glycol diethyl ether
Diethylene glycol phenyl ether
Dipropylene glycol
Ethoxy triglycol
2-Ethoxyethanol
Ethoxy triglycol (crude)
Ethylene glycol dibutyl ether
Ethylene glycol n-propyl ether
Ethylene glycol monoalkyl ethers
Ethylene glycol butyl ether
Ethylene glycol ethyl ether
Ethylene glycol isobutyl ether
Ethylene glycol methyl butyl ether
Ethylene glycol tert-butyl ether
Ethylene glycol hexyl ether
Ethylene glycol methyl ether
Ethylene glycol propyl ether
Ethylene glycol isopropyl ether
Ethylene glycol phenyl ether
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture
Glucitol/Glycerol blend propoxylated (containing less than 10% amines)
Glycerol ethoxylated
Glycerol polyalkoxylate

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Glycerol propoxylated
Glycerol, propoxylated and ethoxylated
Glycerol/Sucrose blend propoxylated and ethoxylated
alpha-Hydro-omega-hydroxytetradeca (oxytetramethylene)
Methoxy triglycol
Nonyl phenol poly(4+)ethoxylate
Pentaethylene glycol methyl ether
Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures
Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether
Diethylene glycol butyl ether
Diethylene glycol ethyl ether
Diethylene glycol n-hexyl ether
Diethylene glycol propyl ether
Diethylene glycol methyl ether
Dipropylene glycol butyl ether
Dipropylene glycol methyl ether
Polyalkylene glycol butyl ether
Polyethylene glycol monoalkyl ether
Polypropylene glycol methyl ether
Tetraethylene glycol methyl ether
Triethylene glycol butyl ether
Triethylene glycol ethyl ether
Triethylene glycol methyl ether
Tripropylene glycol methyl ether
Polyethylene glycol
Polyethylene glycol dimethyl ether
Poly (ethylene glycol) methylbutenyl ether (MW > 1000)
Polypropylene glycol
Poly(tetramethylene ether) glycols (mw 950–1050)
Polytetramethylene ether glycol
Propylene glycol monoalkyl ether
n-Propoxypropanol
Propylene glycol n-butyl ether
Propylene glycol ethyl ether
Propylene glycol methyl ether
Propylene glycol propyl ether
Propylene glycol phenyl ether
Tetraethylene glycol
Triethylene glycol
Triethylene glycol butyl ether mixture
Triethylene glycol ether mixture
Tripropylene glycol
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
n-Butyl ether
Dichloroethyl ether
2,2'-Dichloroisopropyl ether
Diethyl ether
Dimethyl ether
Dimethyl furan
1,4-Dioxane
Diphenyl ether
Diphenyl ether/Biphenyl ether mixture
Diphenyl ether/Diphenyl phenyl ether mixture
Diphenyl oxide
ETBE
Ethyl tert-butyl ether¹
Ethyl ether
Isopropyl ether
Long-chain alkaryl polyether (C11–C20)
Methyl tert-butyl ether¹
Methyl tert-pentyl ether
MTBE
Polyether, borated
Polyether (molecular weight 1350+)
Polyether polyols
Poly (oxyalkylene) alkenyl ether (MW>1000)
Polyoxybutylene alcohol
Propyl ether
TAME

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

Tetrahydrofuran
 1,3,5-Trioxane
 42. NITROCOMPOUNDS
 o-Chloronitrobenzene
 Dinitrotoluene (molten)
 Nitrobenzene
 o-Nitrochlorobenzene
 Nitroethane
 Nitroethane(80%)/Nitropropane (20%)
 Nitroethane/1-Nitropropane (each 15% or more) mixture
 Nitrophenol (mixed isomers)
 Nitropropane (60%)/Nitroethane (40%) mixture
 1-or 2-Nitropropane
 o- or p-Nitrotoluenes
 43. MISCELLANEOUS WATER SOLUTIONS
 Alkyl polyglucoside solution
 Alkyl (C8–C10) polyglucoside solution (65% or less)
 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 (C12–C14) polyglucoside solution (55% or less)
 Aluminum sulfate solution¹
 2-Amino-2-hydroxymethyl-1,3-propanediol solution
 Ammonium bisulfite solution (70% or less)¹
 Ammonium chloride solution (less than 25%)
 Ammonium lignosulfonate solution
 Ammonium nitrate/Urea solution (not containing Ammonia)
 Ammonium phosphate/Urea solution
 Ammonium polyphosphate solution
 Ammonium sulfate solution
 Ammonium sulfate solution (20% or less)
 Ammonium thiosulfate solution (60% or less)
 Apple juice
 Calcium bromide/Zinc bromide solution
 Calcium chloride solution
 Calcium lignosulfonate solutions
 Caramel solutions
 Cesium formate solution
 Clay slurry
 Coal slurry
 Corn syrup
 Dextrose solution
 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution
 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution¹
 Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution
 Diethylenetriamine pentaacetic acid, pentasodium salt solution
 Dodecyl diphenyl ether disulfonate solution
 Drilling brines (containing Calcium, Potassium or Sodium salts)
 Drilling brines (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)
 Ethylenediaminetetraacetic acid/tetrasodium salt solution
 Ethylene-Vinyl acetate copolymer (emulsion)
 Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution¹
 Fish solubles (water based fish meal extracts)
 Fructose solution
 Fumaric adduct of Rosin, water dispersion
 Glucose solution
 Hexamethylenediamine adipate (50% in water)
 Hexamethylenediamine adipate solution
 N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution
 Kaolin clay solution
 Kaolin slurry
 Latex, liquid synthetic
 Latex: Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber
 Lauryl polyglucose (50% or less)
 Lauryl polyglucose
 Lignin liquor
 Ligninsulfonic acid, magnesium salt solution
 Ligninsulfonic acid, sodium salt solution
 Liquid Streptomyces solubles
 L-Lysine solution (60% or less)

TABLE II TO PART 150—GROUPING OF CARGOES—Continued

0. UNASSIGNED CARGOES

- Magnesium nitrate solution (66.7%)
- N-Methylglucamine solution (70% or less)
- Microsilica slurry
- Milk
- Naphthenic acid, sodium salt solution
- Pentasodium salt of Diethylenetriamine pentaacetic acid solution
- Phenol solutions (2% or less)
- Polyacrylic acid solution (40% or less)
- Potassium chloride solution
- Potassium chloride solution (10% or more)
- Potassium chloride solution (less than 26%)
- Potassium thiosulfate (50% or less)
- Rosin soap (disproportionated) solution
- Sewage sludge
- Silica slurry
- Sludge, treated
- Sodium bromide solution (less than 50%)
- Sodium hydrogen sulfite solution (45% or less)
- Sodium lignosulfonate solution
- Sodium naphthenate solution
- Sodium poly(4+)acrylate solution
- Sodium polyacrylate solution¹
- Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution
- Sodium silicate solution¹
- Sodium sulfide solution (15% or less)
- Sodium sulfite solution (25% or less)
- Sodium tartrates/Sodium succinates solution
- Sulfonated polyacrylate solution¹
- Tall oil soap (disproportionated) solution
- Tetrasodium salt of ethylenediaminetetraacetic acid solution
- Titanium dioxide slurry
- Trisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution,
- Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution
- Urea solution
- Urea/Ammonium phosphate solution
- Urea/Ammonium nitrate solution (containing less than 1% free Ammonia)
- Vegetable protein solution (hydrolyzed)
- Water
- Zinc bromide/Calcium bromide solution

Note:

1. See Appendix I to 46 CFR part 150 (Exceptions to the Chart).

■ 6. Revise Appendix I to part 150, as amended by the interim rule published on August 16, 2013 (78 FR 50148), effective January 16, 2017, as delayed at 79 FR 68132, November 14, 2014, 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). Acetic acid (4). Acrylates (14). Alcohols, Glycols (20). Aldehydes (19). Aromatic Hydrocarbon Mixtures (32). Carbon Disulfide (38). Esters (34). Ethers (41). Glycol Ethers (40). Halogenated Hydrocarbons (36). Ketones (18). Misc. Hydrocarbon Mixtures (33). Nitriles (37). Nitrocompounds (42). Olefins (30). Paraffins (31).
Acetone cyanohydrin (0)	

Member of reactive group	Compatible with
Acrylonitrile (15) 1,3-Butylene glycol (20) 1,4-Butylene glycol (20) gamma-Butyrolactone (0) Caustic potash, 50% or less (5)	Phenols, Cresols (21). Substituted Alkyls (15). Sulfolane (39). Vinyl Acetate (13). Vinyl Halides (35). Triethanolamine (8). Morpholine (7). Ethylamine (7). Triethanolamine (8). N-Methyl-2-pyrrolidone (9). Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume) (20). 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). Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume) (20). iso-Butyl alcohol (20). 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-Nonyl alcohol (20). Propyl alcohol (20). iso-Propyl alcohol (20). Propylene glycol (20). Sodium chlorate solution (0). iso-Tridecanol (20).
Dimethyl disulfide (0)	Acrylates (14). Alcohols, Glycols (20). Esters (34). Halogenated Hydrocarbons (36). Ketones (18). Methyl tert-butyl ether (41). Aromatic Hydrocarbon Mixtures (32). Olefins (30). Organic Acids (4). Organic Anhydrides (11). Paraffins (31). Phenols, Cresols (21). 2,2-Dimethylpropane-1,3-diol (20). Polypropylene glycol (40).
Diphenylmethane diisocyanate (12)	Acetone (18). Acrylonitrile (15). n-Butyl acrylate (14). Caustic soda solution (50%) (5). Chloroform (36). iso-Decyl alcohol (20). Diglycidyl ether of Bisphenol A (16). Dichloromethane (36). Diisodecyl phthalate (34). Dipropylene glycol (40). Epichlorohydrin (17). Ethyl acrylate (14). Ethylene glycol monoalkyl ethers (40).
tert-Dodecanethiol (0)	

Member of reactive group	Compatible with
Dodecyl and Tetradecylamine mixture (7) Ethylenediamine (7)	Methanol (20). Methyl ethyl ketone (18). Methyl isobutyl ketone (18). Naphtha, Solvent (33). iso-Nonyl alcohol (20). Perchloroethylene (36). Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether (40). iso-Propyl alcohol (20). iso-Propylamine solution (70%) (7). Propylene glycol methyl ether (40). Propylene glycol methyl ether acetate (34). Tall oil, crude (34). Tall oil fatty acid (resin acids less than 20%) (34). Toluene (32). Toluene diisocyanate (TDI) (12). White mineral oil (Carnation oil) (33). Tall oil, fatty acid (34). Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume) (20).
Lactic acid (0)	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). Acetic acid (4). Benzene (32). Ethanol (20). Polypropylene glycol (40). Vinyl acetate (13).
Oleum (0)	Hexane (31). Dichloromethane (36). Perchloroethylene (36). Diethylenetriamine (7). Polyethylene polyamines (7). Triethylenetetramine (7).
1,2-Propylene glycol (20) Sodium cresylate as Cresylate spent caustic (5) Sodium dichromate solution (70% or less) (0)	Methyl alcohol (20). Acetone (18). n-Butyl alcohol (20). Ethyl Acetate (34). 1-Hexene (30). Methyl alcohol (20). Octene (all isomers) (30). Phosphoric Acid (1). iso-Propyl alcohol (20).
Sodium hydrogen sulfide solution (5) Sodium hydrosulfide solution (5) Sodium Methylate 21–30% in methanol (0)	Methyl alcohol (20). Iso-Propyl alcohol (20). 1,2-Dichloropropane (36). Chlorobenzene (36). Cyclohexanone (18). Cyclohexanone, Cyclohexanol mixtures (18). Diethanolamine (8). Diisononyl phthalate (34). Dimethylformamide (10). Ethyl alcohol (20). Ethylene glycol (20). Furfuryl alcohol (20). Heptene (all isomers) (30). Isobutyl alcohol (20). Isopropyl alcohol (20). Lubricating oil (33). Methyl ethyl ketone (18).

Member of reactive group	Compatible with
Sulfuric acid (2)	Nonene (all isomers) (30). Nonyl alcohol (all isomers) (20). Octene (all isomers) (30). o-Toluidine (9). Perchloroethylene (36). Polyisobutenamine in aliphatic (C10–C14) solvent (7). Xylene (32). Coconut oil (34). Coconut oil acid (34). Palm oil (34). Soyabean oil (34). Tallow (34).
Sulfuric acid, 98% or less (2) Urea/Ammonium Nitrate solution (containing less than 1% free Ammonia) (43).	Choice white grease tallow (34). Magnesium chloride solutions (0).

(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.
Alkylbenzene sulfonic acid (less than 4%) (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 (70% or less) (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 (34) is not compatible with Group 3, Nitric acid.
Ferric hydroxyethylethylenediamine triacetic acid, Triodium 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 Furfuryl 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.
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) (5) 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 (6% or less)/ Sodium carbonate solution (3% or less) (0)

is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).
 Sodium hydrosulfide solution (45% or less) (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 Group 1 (non-oxidizing mineral acids) and Group 4 (Organic acids).
 Trimethyl phosphite (34) is not compatible with Group 1 (non-oxidizing mineral acids) and Group 4 (Organic acids).
 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. Revise the authority citation for part 153 to read as follows:

Authority: 46 U.S.C. 2103, 3703; Department of Homeland Security Delegation No. 0170.1, para. II (92.a), (92.b). 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, as amended by the interim rule published on August 16, 2013 (78 FR 50148), effective January 16, 2017, as delayed at 79 FR 68132, November 14, 2014, to read as follows:

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.

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

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, <i>see also</i> Lignin liquor	Z.
Ammonium nitrate solution (45% or less)	#.
Ammonium phosphate, urea solution, <i>see also</i> Urea, Ammonium phosphate solution	#.
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, <i>see also</i> 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.
<i>Dextrose solution, see</i> 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) (<i>see also</i> 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	#.

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

Cargoes	Pollution category
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) <i>including: Black, Green, or White liquor</i>	#.
Lignin liquor (free alkali content, 1% or less)	Z.
<i>including:</i>	
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.
Microsilica slurry	OS.
Milk	#.
Molasses	OS.
Molasses residue (from fermentation)	#.
Naphthalenesulfonic acid-Formaldehyde copolymer, sodium salt solution	Z.
Naphthenic acid, sodium salt solution	#.
Nitritotriacetic 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.
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.
<i>Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.</i>	
Polyaluminum chloride solution	Z.
<i>Potassium chloride solution (26% or more), see Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution.</i>	
Potassium chloride solution (less than 26%)	OS.
Potassium formate solutions	Z.
Potassium thiosulfate (50% or less)	Y.
Sewage sludge, treated (<i>treated so as to pose no additional decompositional and fire hazard; stable, non-corrosive, non-toxic, non-flammable</i>).	#.
Silica slurry	#.
Sludge, treated (<i>treated so as to pose no additional decompositional and fire hazard; stable, non-corrosive, non-toxic, non-flammable</i>).	#.
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, <i>see also</i> Lignin liquor	Z.
<i>Sodium naphthenate solution (free alkali content, 3% or less), see Naphthenic acid, sodium salt solution</i>	
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.
<i>Tetrasodium salt of Ethylenediaminetetraacetic acid solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution</i>	

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

Cargoes	Pollution category
Titanium dioxide slurry	Z.
1,1,1-Trichloroethane	Y.
1,1,2-Trichloro-1,2,2-trifluoroethane	Y.
<i>Trisodium salt of N-(Hydroxyethyl)ethylenediamine triacetic acid solution, see N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution.</i>	
Urea, Ammonium mono-and di-hydrogen phosphate, Potassium chloride solution	#.
Urea/Ammonium nitrate solution	Z.
Urea/Ammonium phosphate solution	Y.
Urea solution	Z.
Vanillin black liquor (free alkali content, 1% or less)	#.
Vegetable protein solution (hydrolyzed) (if non-flammable and non-combustible)	OS.
Water	OS.
<i>Zinc bromide, Calcium bromide solution, see Drilling brines (containing Zinc salts)</i>	

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 substances 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.

Entries in bold were added from the March 2012 Annex to the 2007 IBC Code.

Dated: October 13, 2015.

J.G. Lantz,

Director of Commercial Regulations and Standards, U.S. Coast Guard.

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