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Part IV

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Coast Guard

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

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

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;
- 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.

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.lD, which guide the Coast Guard in complying with the National Environmental Policy Act of 1969 (NEPA)(42 U.S.C. 4321–4370f), and have made a preliminary determination that this action is one of a category of actions that do not individually or cumulatively have a significant effect on the human environment. A preliminary environmental analysis checklist supporting this determination is available in the docket where indicated under the ''Public Participation and 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
Alcohol(C12–C15) poly (. . .) ethoxylates, see Alcohol(C12–C16) poly(. . .) ethoxylates	
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
Alkyl phenol sulfide (C8–C40), see Alkyl(C8–C40) phenol sulfide	
Alkyl(C8–C40) phenol sulfide	Z
Alkyl(C8–C9) phenylamine in aromatic solvents	**Y**
Alkyl(C9–C15) phenyl propoxylate	Z
Alkyl(C8–C10) polyglucoside solution (65% or less)	**Y**
Alkyl(C12–C14) polyglucoside solution (55% or less)	Y
Alkyl(C8–C10)/(C12–C14):(40% or less/60% or more) polyglucoside solution (55% or less)	**Y**
Alkyl(C8–C10)/(C12–C14):(60% or more/40% or less) polyglucoside solution (55% or less)	**Y**
Alkyl(C8–C10)/(C12–C14):(50%/50%) polyglucoside solution (55% or less)	**Y**
Alkyl(C10–C20, saturated and unsaturated) phosphite	**Y**
n-Alkyl phthalates, see individual phthalates	
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
Amyl methyl ketone, see Methyl amyl ketone	
Amylene, see Pentene (all isomers)	
Animal acid oil	#
Animal and Fish acid oils and distillates, n.o.s.	#
Animal and Fish oils, n.o.s.	#
Animal oil	#
Aromatic oil	I
Aryl polyolefins (C11–C50)	Y
Asphalt	I
Asphalt blending stocks:	
Roofers flux	I
Straight run residue	I
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95–120°C)	**X**
Barium long-chain alkyl (C8–C14) phenate sulfide	#
Beechnut oil	#
Behenyl alcohol, see Alcohols (C13+)	
Benzene tricarboxylic acid, trioctyl ester	Y

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 borate esters.	Z
Butane	LFG
Butene, see Butylene	
Butene oligomer	X
2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)	Y
Butyl acetate (all isomers)	Y
Butyl alcohol (iso-, n-, sec-, tert-), see Butyl alcohol (all isomers)	
Butyl alcohol (all isomers)	Z
Butylbenzene (all isomers)	**X**
Butyl benzyl phthalate	X
Butyl butyrate (all isomers)	**Y**
Butylene	LFG
Butylene glycol	Z
1,3-Butylene glycol, see Butylene glycol	
iso-Butyl formate	#
n-Butyl formate	#
Butyl heptyl ketone	#
Butyl methyl ketone, see Methyl butyl ketone	
n-Butyl propionate	Y
Butyl stearate	#
Butyl toluene	#
gamma-Butyrolactone	Y
Calcium alkyl(C9)phenol sulfide, polyolefin phosphorosulfide mixture	#
Calcium alkyl salicylate, see Calcium long-chain alkyl salicylate (C13+)	
Calcium long-chain alkaryl sulfonate (C11–C50)	#
Calcium long-chain alkyl phenate (C8–C40), see Calcium long-chain alkyl(C5–C10) phenate *or* Calcium long-chain alkyl(C11–C40) phenate.	
Calcium long-chain alkyl(C5–C10) phenate	Y
Calcium long-chain alkyl(C11–C40) phenate	Y
Calcium long-chain alkyl phenolic amine (C8–C40)	#
Calcium long-chain alkyl salicylate (C13+)	Y
Camelina oil	Y
Candelilla wax, see Waxes	
Caprolactam solutions, see epsilon-Caprolactam (molten or aqueous solutions)	
epsilon-Caprolactam (molten or aqueous solutions)	**Z**
Carnauba wax, see Waxes	
Cetyl alcohol, see Alcohols (C13+)	
Cetyl-stearyl alcohol, see Alcohols (C13+)	
Chlorinated paraffins (C10–C13)	**X**
1-(4-Chlorophenyl)-4,4-dimethyl-pentan-3-one	**Y**
Citric acid (70% or less)	**Z**
Clarified oil	I
Coal oil	#
Coconut oil fatty acid methyl ester	**Y**
Cod liver oil	#
Copper salt of long-chain (C17+) alkanoic acid	Y
Corn acid oil	#
Cotton seed acid oil	#
Cotton seed, fatty acid, see Cotton seed oil, fatty acid	
Cotton seed oil, fatty acid	#
Crude Isononylaldehyde	#
Crude Isopropanol	Z
† Crude oil	I
Cumene, see Propylbenzene (all isomers)	
Cycloheptane	**X**
Cyclohexane	Y
Cyclohexanol	Y
Cyclohexyl acetate	**Y**
1,3-Cyclopentadiene dimer (molten)	Y
Cyclopentane	**Y**
Cyclopentene	**Y**
p-Cymene	Y
Dark mixed acid oil	#
Decahydronaphthalene	Y
iso-Decaldehyde	#
n-Decaldehyde	#

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

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
Dipropylene glycol butyl ether, see Poly (2–8) alkylene glycol monoalkyl(C1–C6) ether	
Dipropylene glycol dibenzoate	#
Dipropylene glycol methyl ether, see Poly (2–8)alkylene glycol monoalkyl (C1–C6) ether	
Dithiocarbamate ester (C7–C35)	**X**
Distillates:	
Flashed feed stocks	I
Straight run	I
Diundecyl phthalate	Y
Dodecane (all isomers)	Y
Dodecanol, see Dodecyl alcohol	
Dodecene (all isomers)	X
Dodecyl alcohol	Y
Dodecyl benzene, see Alkyl (C9+) benzenes	
Dodecyl hydroxypropyl sulfide	X
Dodecyl phenol	X
Dodecyl xylene	Y
Drilling brines (containing zinc salts) (if flammable or combustible)	**X**
Drilling brines, including: calcium bromide solution, calcium chloride solution and sodium chloride solution (if flammable or combustible).	**Z**
Drilling mud (low toxicity) (if flammable or combustible)	#
Ethane	LFG
ETBE, see Ethyl tert-butyl ether	
2-Ethoxyethyl acetate	Y
Ethoxylated alkyloxy alkyl amine, see Ethoxylated long-chain (C16+) alkyloxyalkylamine	
Ethoxy triglycol (crude)	#
Ethyl acetate	Z
Ethyl acetoacetate	Z
Ethyl alcohol	Z
Ethyl amyl ketone	Y
Ethylbenzene	Y
Ethyl butanol	#
Ethyl tert-butyl ether	Y
Ethyl butyrate	Y
Ethyl cyclohexane	Y
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	#
Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate	
Ethylene glycol methyl butyl ether	#
Ethylene glycol methyl ether acetate	Y
Ethylene glycol phenyl ether	Z
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	Z
Ethyl-3-ethoxypropionate	Y
2-Ethylhexaldehyde, see Octyl aldehydes	
2-Ethylhexanoic acid	Y
Ethylhexoic acid, see 2-Ethylhexanoic acid	
2-Ethylhexanol, see Octanol (all isomers)	
Ethyl hexyl phthalate	#
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol, (C8–C10) ester	Y
Ethyl propionate	Y
Ethyl toluene	Y
Fatty acid (saturated, C13+)	Y
Fatty acids, (C16+)	**Y**
Fatty acids, essentially linear (C6–C18) 2-ethylhexyl ester	**Y**
Fish acid oil	#
Formamide	Y
Furfuryl alcohol	Y
† Gas oil, cracked	I
Gas oil, high pour	I
Gas oil, low pour	I

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	#
Glycerol, see Glycerine	
Glycerol ethoxylated	**OS**
Glycerol monooleate	Y
Glycerol polyalkoxylate	#
Glycerol, propoxylated and ethoxylated	**Z**
Glycerol/sucrose blend propoxylated and ethoxylated	**Z**
Glyceryl triacetate	Z
Glycidyl ester of tridecyl acetic acid, see Glycidyl ester of C10 trialkylacetic acid	
Glycidyl ester of versatic acid, see Glycidyl ester of C10 trialkylacetic acid	
Glycidyl ester of C10 trialkylacetic acid	Y
Glycol diacetate, see Ethylene glycol diacetate	
Glycol triacetate, see Glyceryl triacetate	
Glyoxal solution (40% or less)	Y
Glyphosate solution (not containing surfactant)	Y
Grape Seed Oil	Y
Groundnut acid oil	#
Groundnut oil	**Y**
Hazelnut oil	#
Heartcut distillate	I
Heptadecane, see n-Alkanes (C10+)	
Heptane (all isomers)	X
Heptanoic acid, see n-Heptanoic acid	
***n*-Heptanoic acid**	**Z**
Heptanol (all isomers)	Y
Heptene (all isomers)	Y
Heptyl acetate	Y
Herbicide (C15H22NO2Cl), see N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methylchloroacetanilide	
Hexadecanol, see Alcohol (C 13+)	
1-Hexadecylnaphthalene/1,4-Bis(hexadecyl)naphthalene mixture	Y
Hexaethylene glycol, see Polyethylene glycol	
Hexamethylene glycol	Z
Hexamethylenetetramine solutions	Z
Hexane (all isomers)	Y
1,6-Hexanediol, distillation overheads	**Y**
Hexanoic acid	Y
Hexanol	Y
Hexene (all isomers)	Y
Hexyl acetate	Y
Hexylene glycol	Z
Hydrogenated starch hydrolysate	**OS**
2-Hydroxy-4-(methylthio) butanoic acid	Z
Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated	
Illipe oil	**Y**
Isoamyl alcohol	**Z**
Isobutyl alcohol	**Z**
Isobutyl formate	**Z**
Isobutyl methacrylate	**Z**
Isopropyl acetate	**Z**
Isopropyl alcohol	**Z**
Isopropylcyclohexane	**Y**
Jatropha oil	**Y**
Jet fuels:	
† JP–4	I
JP–5 (*kerosene, heavy*)	I
JP–8	I
Kerosene	I

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
Magnesium nonyl phenol sulfide, see Magnesium long-chain alkyl phenate sulfide (C8–C20)	
Maleic anhydride/sodium allylsulphonate copolymer solution	Z
Mango kernel oil	**Y**
2-Mercaptobenzothiazol (*in liquid mixtures*)	#
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**
Methoxy triglycol , see Poly (2–8) alkylene glycol monoalkyl (C1–C6) ether	
Methyl acetate	Z
Methyl acetoacetate	Z
Methyl alcohol	Y
Methylamyl acetate	Y
Methylamyl alcohol	Z
Methyl amyl ketone	Z
Methyl butanol, see the amyl alcohols	
Methylbutenol	Y
Methyl tert-butyl ether	Z
Methyl butyl ketone	Y
Methylbutynol	**Z**
Methyl butyrate	Y
Methylcyclohexane	**Y**
Methylcyclopentadiene 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
Methyl isobutyl carbinol, see Methyl amyl alcohol	
Methyl isobutyl ketone	Z
3-Methyl-3-methoxybutanol	Z
3-Methyl-3-methoxybutyl acetate	#
Methyl pentene, see Hexene (all isomers)	
Methyl tert-pentyl ether, see tert-Amyl methyl ether	
2-Methyl-1,3-propanediol	Z
Methyl propyl ketone	Z
2-Methylpyridine	Z
3-Methylpyridine	Z
4-Methylpyridine	Z
N-Methyl-2-pyrrolidone	Y
Methyl salicylate	**Y**
Metolachlor, see N-(2-Methoxy-1-methylethyl)-2-ethyl-6-methylchloroacetanilide	
Mineral oil	I
Mineral seal oil	I
Mineral spirits	I
Mixed acid oil	#
Mixed general acid oil	#
Mixed hard acid oil	#
Mixed soft acid oil	#
Motor oil	I
MTBE, see Methyl tert-butyl ether	
Myrcene	X
Naphtha:	
† Aromatic (*having less than 10% Benzene*)	I

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
Nonyl phenol sulfide (90% or less), see Alkyl (C8–C40) phenol sulfide	
Noxious liquid, F, (2) n.o.s. (''trade name'' contains ''principle components'') ST 1, Cat X	X
Noxious liquid, F, (4) n.o.s. (''trade name'' contains ''principle components'') ST 2, Cat X	X
Noxious liquid, F, (6) n.o.s. (''trade name'' contains ''principle components'') ST 2, Cat Y	Y
Noxious liquid, F, (8) n.o.s. (''trade name'' contains ''principle components'') ST 3, Cat Y	Y
Noxious liquid, F, (10) n.o.s. (''trade name'' contains ''principle components'') ST 3, Cat Z	Z
Noxious liquid, (11) n.o.s. (''trade name'' contains ''principle components'') Cat Z (if flammable or combustible)	Z
Non noxious liquid, (12) n.o.s. (''trade name'' contains ''principle components'') Cat OS (if flammable or combustible)	OS
Nutmeg butter oil	#
Octadecanol, see Alcohols (C13+)	
Octadecene, see the olefin or alpha-olefin entries	
Octadeceneamide solution	#
Octamethylcyclotetrasiloxane	**Y**
Octane (all isomers)	X
Octanoic acid (all isomers)	Y
Octanol (all isomers)	Y
Octene (all isomers)	Y
Octyl acetate, see n-Octyl acetate	
n-Octyl acetate	**Y**
Octyl alcohol (iso-, n-), see Octanol (all isomers)	
Octyl aldehydes	Y
Octyl decyl adipate	Y
Octyl phthalate, see Dioctyl phthalate	
Oil, edible: Poppy seed	I
Oil, fuel:	
No. 1 (*kerosene*)	I
No. 1–D	I
No. 2	I
No. 2–D	I
No. 4	I
No. 5	I
No. 6	I
Oiticica oil	#
alpha-Olefins (C6–C18) mixtures	X
alpha-Olefins (C13–C18) mixtures, see alpha-Olefins (C6–C18)	
Olefins (C13+, all isomers)	Y
Olefin-Alkyl ester copolymer (molecular weight 2000+)	Y
Olefin mixtures (C5–C7)	Y
Olefin mixtures (C5–C15)	X
Olefin Mixture (C7–C9) C8 rich, stabilized	X
Oleic acid	Y
Oleyl alcohol, see Alcohols (C13+)	
Orange juice (concentrated)	**OS**
Palm kernel acid oil, methyl ester	#
Palm kernel olein	**Y**
Palm kernel stearin	**Y**
Palm mid-fraction	**Y**

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
n-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
Pentadecanol, see Alcohols (C13+)	
1,3-Pentadiene	Y
1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures	Y
Pentaethylene glycol, see Polyethylene glycols	
Pentane (all isomers)	Y
Pentanoic acid	Y
Pentene (all isomers)	Y
n-Pentyl propionate	Y
Perilla oil	#
Petrolatum	Y
1-Phenyl-1-xylyl ethane	Y
Phosphate esters, alkyl (C12–C14) amine	Y
Phosphosulfurized bicyclic terpene	#
Pilchard oil	#
Pinene, see the alpha- or beta- isomers	
alpha-Pinene	X
beta-Pinene	X
Pine oil	**X**
Piperazine (70% or less)	**Y**
Polyalkyl(C18–C22) acrylate in xylene	**Y**
Polyalkylene glycols, polyalkylene glycol monoalkyl ethers mixtures	**#**
Polyalkylalkenaminesuccinimide, molybdenum oxysulfide	Y
Polyalkylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether	Z
Including:	
Diethylene glycol butyl ether	
Diethylene glycol ethyl ether	
Diethylene glycol n-hexyl ether	
Diethylene glycol methyl ether	
Diethylene glycol n-propyl ether	
Dipropylene glycol butyl ether	
Dipropylene glycol methyl ether	
Polypropylene glycol methyl ether	
Triethylene glycol butyl ether	
Triethylene glycol ethyl ether	
Triethylene glycol methyl ether	
Tripropylene glycol methyl ether	
Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether acetate	Y
Including:	
Diethylene glycol butyl ether acetate	
Diethylene glycol ethyl ether acetate	
Diethylene glycol methyl ether acetate	
Polyalkylene oxide polyol	#
Polyalkyl(C10–C20) methacrylate	Y
Polyalkyl(C10–C18) methacrylate/ethylene-propylene copolymer mixture	**Y**
Polybutadiene, hydroxy terminated	#
Polybutene	Y
Polybutenyl succinimide	Y
Poly(2+)cyclic aromatics	**X**
Polydimethylsiloxane, see Dimethylpolysiloxane	
Polyether (molecular weight 1350+)	Y
Polyether polyols	#
Polyethylene glycol	Z
Polyethylene glycol dimethyl ether	Z
Poly(ethylene glycol) methylbutenyl ether (MW≤1000)	**Z**
Polyethylene glycol monoalkyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
Polyglycerine, sodium salt solution (containing less than 3% sodium hydroxide)	Z
Polyglycerol	#
Polyisobutenamine in aliphatic (C10–C14) solvent	**Y**
Polyisobutenyl anhydride adduct	Z

Cargo name	IMO Annex II Pollution Category
Poly(4+)isobutylene (MW≤224)	X
Polyisobutylene (MW≤224)	Y
Polymerized esters	#
Polyolefin amide alkeneamine (C17+)	Y
Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkeneamine (C17+)	
Polyolefin amide alkeneamine borate (C28–C250)	Y
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture	#
Polyolefin amide alkeneamine polyol	Y
Polyolefinamine (C28–C250)	**Y**
Polyolefinamine in alkyl (C2–C4) benzenes	**Y**
Polyolefinamine in aromatic solvent	**Y**
Polyolefin aminoester salts (molecular weight 2000+)	**Y**
Polyolefin anhydride	Y
Polyolefin ester (C28–C250)	Y
Polyolefin phenolic amine (C28–C250)	Y
Polyolefin phosphorosulfide, barium derivative (C28–C250)	Y
Poly(20)oxyethylene sorbitan monooleate	Y
Poly(5+)propylene	Y
Polysiloxane	Y
Polypropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
Polysiloxane	Y
Poppy oil	#
Potassium oleate	Y
Potassium salt of polyolefin acid	#
Propane	LFG
2-Propene-1-aminium, N,N-dimethyl-N–2-propenyl-, chloride, homopolymer solution	Y
Propionaldehyde	Y
n-Propoxypropanol , see Propylene glycol monoalkyl ether	
n-Propyl acetate	Y
n-Propyl alcohol	Y
iso-Propylbenzene, see Propylbenzene (all isomers)	
n-Propylbenzene, see Propylbenzene (all isomers)	
Propylbenzene (all isomers)	Y
[iso-propylcyclohexane]	[C]
Propylene	LFG
Propylene-Butylene copolymer	#
Propylene carbonate	Z
Propylene dimer	#
Propylene glycol	Z
Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether	
Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether	
Propylene glycol methyl ether, see Propylene glycol monoalkyl ether	
Propylene glycol methyl ether acetate	Z
Propylene glycol monoalkyl ether	Z
Including:	
n-Propoxypropanol	
Propylene glycol n-butyl ether	
Propylene glycol ethyl ether	
Propylene glycol methyl ether	
Propylene glycol propyl ether	
Propylene glycol phenyl ether	Z
Propylene glycol propyl ether, see Propylene glycol monoalkyl ether	
Propylene polymer (*in liquid mixtures*)	#
Propylene tetramer	X
Propylene trimer	Y
Pseudocumene, see Trimethylbenzenes	
Raisin seed oil	#
Rapeseed acid oil	#
Rape seed oil fatty acid methyl esters	**Y**
Residual oil	I
Road oil	I
Rosin	**Y**
Rosin oil	#
Rum, see Alcoholic beverages, n.o.s.	
Safflower acid oil	#
Salad oil	#
Seal oil	I
Sesame oil	#
Soapstock oil	#
Sodium acetate, Glycol, Water mixture (containing 1% or less, Sodium hydroxide) (if flammable or combustible)	#

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
Stearic acid, see Fatty acid (saturated, C13+)	
Stearyl alcohol, see Alcohols (C13+)	
Sulfohydrocarbon (C3–C88)	Y
Sulfohydrocarbon, long-chain (C18+) alkylamine	#
Sulfolane	Y
Sulfurized fat (C14–C20)	Z
Sulfurized polyolefinamide alkene(C28–C250) amine	Z
Sunflower oil, see Sunflower seed acid oil	
Sunflower seed acid oil	#
Tall oil, crude	Y
Tall oil, distilled	Y
Tall oil, fatty acid	#
Tall oil pitch	Y
Tall oil soap, crude	Y
Tallow	Y
Tallow alcohol, see Alcohols (C13+)	
Tallow alkyl nitrile	#
Tallow fatty acid	Y
TAME, see tert-Amyl methyl ether	
Tetradecanol, see Alcohols (C13+)	
Tetradecene, see alpha-Olefins (C6–C18) mixtures, Olefin mixtures (C5–C15), or Olefins (C13+, all isomers)	
Tetradecylbenzene, see Alkyl(C9+)benzenes	
Tetraethylene glycol	Z
Tetraethyl silicate monomer/oligomer (20% in ethanol)	**Z**
Tetrahydronaphthalene	Y
Tetramethylbenzene (all isomers)	X
Tetrapropylbenzene, see Alkyl(C9+)benzenes	
Toluene	Y
Transformer oil	I
Triarylphosphate, see Triisopropylated phenyl phosphates	
Tributyl phosphate	Y
Tridecane	Y
Tridecanoic acid	Y
Tridecanol, see Alcohols (C13+)	
Tridecene, see Olefins (C13+, all isomers)	
Tridecyl acetate	Y
Tridecylbenzene, see Alkyl(C9+)benzenes	
Triethylbenzene	X
Triethylene glycol	Z
Triethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
Triethylene glycol butyl ether mixture	#
Triethylene glycol di-(2-ethylbutyrate)	#
Triethylene glycol ether mixture	#
Triethylene glycol ethyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
Triethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
Triethyl phosphate	Z
Triisooctyl trimellitate	#
Triisopropanolamine	Z
Triisopropylated phenyl phosphates	X
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	#
Tripropylene, see Propylene trimer	
Tripropylene glycol	Z
Tripropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	
1,3,5-Trioxane	Y
Trixylenyl phosphate, see Trixylyl phosphate	
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
Including:				
Cetyl Alcohol (hexadecanol)	20			
Oleyl Alcohol (octadecenol)	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.	
Including:				
Heptanes	31			
Hexanes	31			
Nonanes	31			
Octanes	31			
n-Alkanes (C10+) (all isomers)	31	.....	ALV	ALJ
Including:				
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	
Including:				
Butylbenzenes	32			
Cumene	32			
Propylbenzenes	32			
Alkyl (C5–C8) benzenes	32	.....	AKD.	
Including:				
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.	
Including:				
Decylbenzenes	32			
Dodecylbenzenes	32			
Nonylbenzenes	32			
Tetradecylbenzenes	32			
Tetrapropylbenzenes	32			
Tridecylbenzenes	32			
Undecylbenzenes	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), see 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, see individual phthalates	34		AYS.	
Alkyl polyglucoside solution, see 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, see "Aluminum chloride/Hydrogen chloride solution".	0	1	AHS	AHG
Aluminum chloride/Hydrogen chloride solution	0	1, 3	AHG	AHS
Aluminum hydroxide/sodium hydroxide/sodium carbonate solution (40% or less).	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), see 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, see 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
Ammonium nitrate/Urea solution (containing Ammonia), see Urea/Ammonium nitrate solution (containing 1% or more Ammonia).	6	.....	.....	UAS (ANU/UAT/UAU/UAV)
Ammonium nitrate/Urea solution (not containing Ammonia), see Urea/Ammonium nitrate solution (containing less than 1% Ammonia).	43	.....	.....	UAU (ANU/UAS/UAT/UAV)
Ammonium phosphate/Urea solution, see Urea/Ammonium phosphate solution.	43	.....	.....	UAP (APP/URE)
Ammonium polyphosphate solution	43	.....	AMO.	
Ammonium sulfate solution	43	.....	ASW	AME/AMS
Ammonium sulfate solution (20% or less)	43	.....	AME	AMS/ASW
Ammonium sulfide solution (45% or less)	5	3	ASS	ASF
Ammonium thiocyanate/Ammonium thiosulfate solution	0	1	ACV	ACS
Ammonium thiosulfate solution (60% or less)	43	3	ATV	ATF
Amyl acetate (all isomers)	34	3	AEC	IAT/AML/AAS/AYA
Amyl acid phosphate	34	.....	AIA	
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	
Amyl methyl ketone, see Methyl amyl ketone	18	.....	AMJ	MAK (AMK)
Amylene, see Pentene (all isomers)	30	.....	AMW ...	PTX (AMX/AMZ/PTE)
tert-Amylenes, see Pentene	30	.....	AMZ	PTX (AMW)
Aniline	9	.....	ANL.	
Animal and Fish oils, n.o.s.	34	.....	AFN.	
Including:				
Cod liver oil	34			
Lanolin	34			
Neatsfoot oil	34			
Pilchard oil	34			
Sperm oil	34			
Animal and Fish acid oils and distillates, n.o.s.	34	.....	AFA.	
Including:				
Animal acid oil	34			
Fish acid oil	34			
Lard acid oil	34			
Mixed acid oil	34			
Mixed general acid oil	34			
Mixed hard acid oil	34			
Mixed soft acid oil	34			
Anthracene oil (Coal tar fraction), see Coal tar	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, see Butylene glycol	20	.....	BDO	BUG
2-Butanone, see Methyl ethyl ketone	18	2	.....	MEK
Butene oligomer	30	.....	BOL.	
Butene, see 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
Butyl alcohol (iso-, n-, sec-, tert-), see Butyl alcohol (all isomers)	20	2	.....	BAN/BAS/BAT/BAY/IAL
Butylamine (all isomers)	7	3	BTY	BAM/BTL/BUA/IAM
Butylbenzene (all isomers), see Alkyl(C3–C4)benzenes	32	3	BBE	AKC
Butyl benzyl phthalate	34	.....	BPH.	
Butyl butyrate (all isomers)	34	3	BBA	BIB/BUB
n-Butyl ether	41	3	BTE.	
n-Butyl formate	34	.....	BFN	BFI/BFO
Butyl heptyl ketone	18	.....	BHK.	
Butyl methacrylate	14	.....	BMH	BMI/BMN
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture, see Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture.	14	3	.....	DER (BMH/BMI/BMN/CEM)
Butyl methyl ketone, see 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.	
Calcium alkaryl sulfonate (C11–C50), see Calcium long-chain alkaryl sulfonate (C11–C50).	34	3	CAE	CAY
Calcium alkyl (C9) phenol sulfide, polyolefin phosphorosulfide mixture	34	.....	CPX.	
Calcium alkyl (C10–C28) salicylate	34	3	CAJ.	
Calcium alkyl salicylate, see Calcium long-chain alkyl salicylate (C13+), Calcium long-chain alkyl (C18–C28) salicylate, or Calcium alkyl (C10–C28) salicylate.	34	.....	.....	CAJ/CAK/CAZ
Calcium bromide solution, see Drilling brines	.....	.....	CBI	DRB
Calcium bromide/Zinc bromide solution, see Drilling brine (containing Zinc salts).	43	.....	.....	DZB
Calcium carbonate slurry	34	.....	CSR.	
Calcium chloride solution	43	.....	CCS	CLC
Calcium hydroxide slurry	5	.....	COH	CAH
Calcium hypochlorite solution (15% or less)	5	3	CHU	CHY/CHZ
Calcium hypochlorite solution (more than 15%)	5	3	CHZ	CHU/CHY
Calcium lignosulfonate solutions, see also Lignin liquor	43	.....	CLL	LNL
Calcium long-chain alkaryl sulfonate (C11–C50)	34	.....	CAY.	
Calcium long-chain alkyl (C8–C40) phenate, see Calcium long-chain alkyl (C5–C10) phenate or Calcium long-chain alkyl (C11–C40) phenate.	34	.....	CAQ	CAU/CAV (CAN/CAW)
Calcium long-chain alkyl (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, see Oil, misc.: Camelina	34	3	CEL.	
Camphor oil (light)	18		CPO.	
Canola oil, see Oil, edible: Rapeseed, (low erucic acid containing less than 4% free fatty acids).	34			ORO (ORP)
Caprolactam solution, see 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), see Oil, misc.: Cashew nut shell (untreated).	34		OCN.	
Castor oil, see Oil, edible: Castor	34			OCA (VEO)
Catoxid feedstock	36	2	CXF.	
Caustic potash solution	5	2	CPS.	
Caustic soda solution	5	2	CSS.	
Cesium formate solution	43	3	CSM.	
Cetyl alcohol (hexadecanol), see Alcohols (C13+)	20			ALY (ASY/AYL)
Cetyl/Stearyl alcohol, see 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, see 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, see Naphtha: Coal tar solvent	33		CDL	NCT (CTU)
Coal tar naphtha solvent, see Naphtha: Coal tar solvent	33			NCT (CDL/CTU)
Coal tar pitch (molten)	33	3	CTP.	
Coal tar, high temperature	33		CHH.	
Cobalt naphthenate in solvent naphtha	34		CNS.	
Cocoa butter, see Oil, edible: Cocoa butter	34			OCB (VEO)
Coconut oil, see Oil, edible: Coconut	34	2		OCC (VEO)
Coconut oil, fatty acid, see Oil, misc: Coconut fatty acid	34	2		CFA
Coconut oil, fatty acid methyl ester, see Oil, misc: Coconut fatty acid methyl ester.	34	3		OCM
Copper salt of long-chain (C17+) alkanoic acid	34		CUS	CFT
Copper salt of long-chain (C3–C16) fatty acid	34		CFT	CUS
Corn oil, see Oil, edible: Corn	34			OCO (VEO)
Corn syrup	43		CSY.	
Cotton seed oil, see Oil, edible: Cotton seed	34			OCS (VEO)
Cotton seed oil, fatty acid, see 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
Cresols with 5% or more Phenol, see Phenol	21		CFP	PHN (CFO/CRL/CRO/CRS/CSO)
Cresols with less than 5% Phenol, see Cresols (all isomers)	21		CFO	CRS (CFP/CRL/CRO/CSO)
Cresylate spent caustic, see Cresylic acid, sodium salt solution	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.	
Crude isononylaldehyde, see Isononyldehyde (crude)	19			INC
Crude isopropanol, see Isoproyl alcohol, crude	20			IPB (IPA/PAL)
Crude piperazine, see Piperazine, crude	7			PZC (PPZ/PIZ)
Cumene, see Propylbenzene (all isomers)	32		CUM	AKD (PBY/PBZ)
1,5,9-Cyclododecatriene	30		CYT.	
Cycloheptane	31		CYE.	
Cyclohexane			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
Decane (all isomers), see n-Alkanes (C10+) (all isomers)	31		DCC	ALV (ALJ)
Decanoic acid	4		DCO	NEA
Decene	30		DCE.	
Decyl acetate	34		DYA.	
Decyl acrylate	14		DAT	IAI/DAR
Decyl alcohol (all isomers)	20	2, 3	DAX	ISA/DAN
Decyl/Dodecyl/Tetradecyl alcohol mixture	20	3	DYO	DAN/DAX/DDN/ISA
Decylbenzene, see Alkyl (C9+) benzenes	32		DBZ	AKB
Decyloxytetrahydrothiophene dioxide	0	1	DHT.	
Detergent alkylate	32		DKY	AKB/DBZ/DDB/TDB/TRB/UDB
Dextrose solution, see Glucose solution	43		DTS	GLU
Diacetone alcohol	20	2	DAA.	
Dialkyl (C9–C10) phthalates, see Dialkyl (C7–C13) phthalates	34		DLK	DLH (DAP/DHL/DHP/DID/DIE/DIF/DIN/DIO/DIT/DOP/DPA/DTP/DUP)
Dialkyl thiophosphates sodium salts solution	34	3	DYH.	
Dialkyl (C10–C14) benzenes, see Alkyl (C9+) benzenes	32		DAB	AKB
Dialkyl (C8–C9) diphenylamines	9		DAQ.	
Dialkyl (C7–C13) phthalates	34		DAH.	
Including:				
Di-(2-ethylhexyl) phthalate	34			
Diheptyl phthalate	34			
Dihexyl phthalate	34			
Diisooctyl phthalate	34			
Dioctyl phthalate	34			
Diisodecyl phthalate	34			
Diisononyl phthalate	34	2		
Dinonyl phthalate	34			
Ditridecyl phthalate	34			
Diundecyl phthalate	34			
Dibromomethane	36		DBH.	
Dibutyl carbinol, see Nonyl alcohol (all isomers)	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
Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)	30		DPT	CPD (DPV)
Diethanolamine	8	2	DEA.	
Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution.	43		DZZ	DDE
Diethylamine	7		DEN.	
Diethylaminoethanol	8		DAE.	
2,6-Diethylaniline	9		DMN	DIY
Diethylbenzene	32		DEB.	
Diethyl ether	41		EET.	
Diethyl hexanol, see Decyl alcohol (all isomers)	20			DAX
Di-(2-ethylhexyl) adipate	34		DEH.	
Di-(2-ethylhexyl) phosphoric acid	1		DEP.	
Di-(2-ethylhexyl) phthalate, see Dialkyl (C7–C13) phthalate	34		DIE	DAH
Di-(2-ethylhexyl) terephthalate	34		DHH.	
Diethylene glycol	40	2	DEG.	
Diethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DME	PAG
Diethylene glycol butyl ether acetate, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetate.	34		DEM	PAF
Diethylene glycol dibenzoate	34		DGZ.	
Diethylene glycol dibutyl ether	40		DIG.	
Diethylene glycol diethyl ether	40		DGS.	
Diethylene glycol ethyl ether, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.	40		DGE	PAG
Diethylene glycol ethyl ether acetate, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetates.	34		DGA	PAF
Diethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DGM	PAG
Diethylene glycol methyl ether acetate, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether acetate.	34		DGR	PAF
Diethylene glycol n-hexyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DHE	PAG
Diethylene glycol phenyl ether	40		DGP.	
Diethylene glycol phthalate	34		DGL.	
Diethylene glycol propyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DGO	PAG
Diethylenetriamine	7	2	DET.	
Diethylenetriamine pentaacetic acid, pentasodium salt solution	43		DYS.	
Diethylethanolamine, see Diethylaminoethanol	8			DAE
Diethyl phthalate	34		DPH.	
Diethyl sulfate			DSU.	
Diglycidyl ether of Bisphenol A	16		BDE.	
Diglycidyl ether of Bisphenol F	16		DGF.	
Diheptyl phthalate, see Dialkyl (C7–C13) phthalate	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
Dihexyl phthalate, see Dialkyl (C7–C13) phthalate	34		DHL.	
Diisobutyl carbinol, see Nonyl alcohol (all isomers)	20		DBC	NNS
Diisobutyl ketone	18		DIK.	
Diisobutyl phthalate	34		DIT	DPA
Diisobutylamine	7		DBU.	
Diisobutylene	30		DBL.	
Diisodecyl phthalate, see Dialkyl (C7–C13) phthalates	34		DID	DAH
Diisononyl adipate	34		DNY.	
Diisononyl phthalate, see Dialkyl (C7–C13) phthalates	34	2	DIN	DAH
Diisooctyl phthalate, see Dialkyl (C7–C13) phthalate	34		DIO	DAH/(DIE/DOP)
Diisopropanolamine	8		DIP.	
Diisopropylnaphthalene	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
Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less).	0	1	DAD	DDA (DSX)
Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see 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
Dimethylbenzene, see Xylenes	32	2		XLX/XLM/XLO/XLP
Dimethylcyclicsiloxane hydrolyzate	34		DXZ.	
N,N-Dimethylcyclohexylamine	7		DXN.	
Dimethyl disulfide	0	1, 2, 3	DSK.	
Dimethyldodecylamine, see N,N-Dimethyldodecylamine	7			DDY
N,N-Dimethyldodecylamine	7		DDY.	
Dimethylethanolamine	8		DMB.	
Dimethyl ether	41		DIM.	
Dimethylformamide	10	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.	
Dimethylpolysiloxane, see 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
Dinonyl phthalate, see Dialkyl (C7–C13) phthalates	34		DIF	DAH
Dioctyl phthalate, see Dialkyl (C7–C13) phthalates	34		DOP	DAH (DIE/DIO)
1,4-Dioxane	41		DOX.	
Dipentene	30		DPN.	
Diphenyl			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.	
Diphenyl ether/Biphenyl ether mixture, see Diphenyl/Diphenyl ether mixture	41			DDO
Diphenyl ether/Diphenyl phenyl ether mixture	41		DOB.	
Diphenylmethane diisocyanate	12	2	DPM.	
Diphenyl oxide, see Diphenyl ether	41			DPE
Diphenylol propane-Epichlorohydrin resins	0	1	DPR.	
Di-n-propylamine	7		DNA	DIA
Dipropylene glycol	40		DPG.	
Dipropylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DBG	PAG
Dipropylene glycol dibenzoate	34		DGY.	
Dipropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		DPY	PAG
Distillates, flashed feed stocks	33		DFF.	
Distillates, straight run	33		DSR.	
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.	
Ditridecyl phthalate, see Dialkyl (C7–C13) phthalates	34		DTP	DAH
Diundecyl phthalate, see Dialkyl (C7–C13) phthalates	34		DUP	DAH
Dodecane (all isomers), see Alkanes (C10+) (all isomers)	31		DOF	ALV (ALJ/DOC)
tert-Dodecanethiol	0	1, 2	DDL	LRM
Dodecene (all isomers)	30	3	DOZ	DDC/DOD
Dodecanol (all isomers), see Dodecyl Alcohol (all isomers)	20	2	DDN	LAL
2-Dodecenylsuccinic acid, dipotassium salt solution	34		DSP.	
Dodecyl alcohol (all isomers)	20	2	DDN	ASK/ASY/LAL
Dodecylamine/Tetradecylamine mixture	7	2	DTA.	
Dodecylbenzene, see Alkyl (C9+) benzenes	32		DDB	AKB
Dodecyldimethylamine/Tetradecyldimethylamine mixture	7		DOT.	
Dodecyl diphenyl ether disulfonate solution	43		DTA.	
Dodecyl hydroxypropyl sulfide	0	1	DOH.	
Dodecyl methacrylate	14		DDM.	
Dodecyl/Octadecyl methacrylate mixture	14		DOM	DDM
Dodecyl/Pentadecyl methacrylate mixture	14		DDP.	
Dodecyl phenol	21		DOL.	
Dodecyl xylene	32		DXY.	
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.	
2-Ethoxyethanol, see Ethylene glycol monoalkyl ethers	40		EEO	EGC (EGE)
ETBE, see Ethyl tert-butyl ether	41			EBE
2-Ethoxyethyl acetate	34	2	EEA	EGA
Ethoxylated alkyloxy alkyl amine	8		ELM.	
Ethoxylated alcohols , C11–C15, see 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
Ethoxy triglycol, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether	40		ETG	PAG (ETR/TGE)
Ethoxy triglycol (crude)	40		ETR.	
Ethyl acetate	34	2	ETA.	
Ethyl acetoacetate	34		EAA.	
Ethyl acrylate	14	2	EAC.	
Ethyl alcohol	20	2	EAL.	
Ethylamine	7	2	EAM	EAN/EAO
Ethylamine solution (72% or less)	7	3	EAN	EAM/EAO
Ethyl amyl ketone	18		EAK	ELK
Ethylbenzene	32		ETB.	
Ethyl butanol	20		EBT.	
N-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.	
Ethylene glycol butyl ether, see Ethylene glycol monoalkyl ethers	40		EGM	EGC
Ethylene glycol tert-butyl ether, see Ethylene glycol monoalkyl ethers	40		EGG	EGC
Ethylene glycol isobutyl ether, see Ethylene glycol monoalkyl ethers	40			EGC (EGG/EGM)
Ethylene glycol methyl butyl ether, see Ethylene glycol monoalkyl ethers	40		EMB	EGC
Ethylene glycol ethyl ether, see Ethylene glycol monoalkyl ethers	40		EGE	EGC/EEO
Ethylene glycol hexyl ether, see Ethylene glycol monoalkyl ethers	40		EGH	EGC
Ethylene glycol methyl ether, see Ethylene glycol monoalkyl ethers	40		EME	EGC
Ethylene glycol n-propyl ether, see Ethylene glycol monoalkyl ethers	40		EGN	EGC (EGI/EGP)
Ethylene glycol propyl ether, see Ethylene glycol monoalkyl ethers	40		EGP	EGC/EGI/EGN
Ethylene glycol isopropyl ether, see Ethylene glycol monoalkyl ethers	40		EGI	EGC (EGG/EGM)
Ethylene glycol monoalkyl ethers	40	2	EGC.	
Including:				
Ethylene glycol butyl ether	40			
Ethylene glycol ethyl ether	40			
Ethylene glycol isobutyl ether	40			
Ethylene glycol methyl butyl ether	40			
Ethylene glycol tert-butyl ether	40			
Ethylene glycol hexyl ether	40			
Ethylene glycol methyl ether	40			
Ethylene glycol propyl ether	40			
Ethylene glycol isopropyl ether	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.	
Ethyl ether, see Diethyl ether	41			EET
Ethyl-3-ethoxypropionate	34		EEP.	
2-Ethylhexaldehyde, see Octyl aldehydes	19		EHA	OAL (OLX)
2-Ethylhexanoic acid, see Octanoic acid (all isomers)	4		EHO	OAY (OAA)
2-Ethylhexanol, see Octanol	20		EHX	OCA (OTA)
2-Ethylhexyl acrylate	14		EAI.	
2-Ethylhexylamine	7		EHM.	
Ethyl hexyl phthalate	34		EHE.	
Ethyl hexyl tallate	34		EHT.	
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8–C10) ester	34		EHD.	
Ethyl lactate	34		ELT.	
Ethylidene norbornene	30	2	ENB.	
Ethyl methacrylate	14		ETM.	
N-ethylmethylallylamine	7		EML.	
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
Fatty acids (saturated, C14+), see Fatty acids (saturated C13+)	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.	
Fish oil, see Oil, edible: Fish	34	2		OFS (AFN)
Fish solubles (water based fish meal extracts)	43		FSO.	
Fluorosilicic acid (20–30%) in water solution	1	3	FSK	FSJ/FSL/HFS
Fluorosilicic acid (30% or less)	1		FSJ	FSK/FSL/HFS
Formaldehyde (50% or more)/Methanol mixtures	19	2	MTM.	
Formaldehyde solutions (37%–50%)	19	2	FMS	FMG/FMR
Formaldehyde solutions (45% or less)	19	2, 3	FMR	FMG/FMS
Formamide	10		FAM.	

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.	
Fuming sulfuric acid, see Oleum	0	2		
Furfural	19		FFA.	
Furfuryl alcohol	20	2	FAL.	
Gas oil, cracked, see Oil, misc: Gas, cracked	33		.....	GOC
Gasoline blending stock, alkylates	33		GAK.	
Gasoline blending stock, reformates	33		GRF.	
Gasolines:				
Automotive (not over 4.23 grams lead per gal.)	33		GAT.	
Aviation (containing not over 4.86 grams lead per gal.)	33		GAV	AVA
Casinghead (natural)	33		GCS.	
Polymer	33		GPL.	
Straight run	33		GSR.	
Gasolines: Pyrolysis (containing Benzene), see Pyrolysis gasoline (containing Benzene).	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
Glycerol, see Glycerine	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
Glycidyl ester of tertiary carboxylic acid, see Glycidyl ester of C10 trialkyl acetic acid.	34		GLT	GLU
Glycidyl ester of tridecyl acetic acid, see Glycidyl ester of C10 trialkyl acetic acid.	34		GLT	GLU
Glycidyl ester of Versatic acid, see Glycidyl ester of C10 trialkyl acetic acid	34		GLT	GLU
Glycine, sodium salt solution	7		GSS.	
Glycol diacetate, see Ethylene glycol diacetate	34		.....	EGY
Glycol mixture, crude	20		GMC.	
Glycol triacetate, see Glyceryl triacetate	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
Grape Seed Oil, see Oil, edible: Grape Seed	34			
Groundnut Oil, see Oil, edible: Groundnut	34		.....	OGN (VEO)
Hazelnut oil, see Oil, edible: Hazelnut	34		.....	OHN (VEO)
Heptadecane (all isomers), see Alkanes (C10+) (all isomers)	31		.....	ALV (ALJ)
Heptane (all isomers), see Alkanes (C6–C9)	31		HMX	ALK (HPI/HPT)
n-Heptanoic acid	4		HEN	HEP
Heptanol (all isomers)	20		HTX	HTN
Heptene (all isomers)	30	2, 3	HPX	THE
Heptyl acetate	34		HPE.	
Heptylbenzenes, see Alkyl (C5–C8) benzenes	32		.....	AKD
Herbicide (C15–H22–NO2-Cl), see Metolachlor	34		.....	MCO
Hexadecanol, see Alcohols (C13+)	20		.....	ALY (ASY/AYL)
1-Hexadecylnaphthalene/1,4-bis(Hexadecyl)naphthalene mixture	32		HNH	HNI
1-n-Hexadecylnaphthalene (90%)/1,4-di-n-(Hexadecyl)naphthalene (10%)	32		HNI	HNH
Hexaethylene glycol, see Polyethylene glycol	20		HMG	PEG
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
Hexane (all isomers), see Alkanes (C6–C9)	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.	
Hexylbenzenes, see Alkyl (C5–C8) benzenes	32			AKD
Hexylene glycol, see hexamethylene glycol	20		HXG	HMG
Hog grease, see Lard	34			LRD
Hydrochloric acid	1		HCL.	
Hydrofluorosilicic acid, (25% or less), see Fluorosilicic acid (30% or less)	1			FSJ (FSK/FSL/HFS)
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	HAI.	
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.	
Hydroxy terminated polybutadiene, see Polybutadiene, hydroxy terminated	31			PHT
Illipe oil, see Oil, edible: Illipe	34			ILO (VEO)
Isoamyl alcohol	20	3	IAA	AAI/AAL/AAN/APM/ASE
Isobutyl alcohol	20	2, 3	IAL	BAN/BAS/BAT/BAY
Isobutyl formate	34	3	BFI	BFN/BFO
Isobutyl methacrylate	14	3	BMI	BMH/BMN
Isononylaldehyde (crude)	19		INC.	
Isophorone	18	2	IPH.	
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
iso-Propanolamine, see Isopropanolamine	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
iso-Propylamine solution, see Isopropylamine (70% or less) solution	7			IPQ (IPO/IPP/PRA)
Isopropylbenzenes, see Alkyl (C3–C4) benzenes	32			AKC (CUM/PBY/PBZ)
Isopropylcyclohexane	31	3	IPX.	
iso-Propyl cyclohexane, see Isopropylcyclohexane	31			IPX
Isopropyl ether	41	3	IPE	PRL/PRN
Jatropha oil, see Oil, misc: Jatropha	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.	
Lauryl polyglucose (50% or less), see Alkyl (C12–C14) polyglucoside solution (55% or less).	43		LAP	AMG
Lauryl polyglucose, see Alkyl (C12–C14) polyglucoside solution (55% or less).	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
Ligninsulfonic acid, sodium salt solution, see Lignin liquor or Sodium lignosulfonate solution.	43		LGA	LNL or SLG
d-Limonene, see Dipentene	30			DPN
Linear alkyl (C12–C16) propoxyamine ethoxylate	8		LPE.	
Linseed oil, see Oil, misc: Linseed	34			OLS
Liquefied Natural Gas, see Methane	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
Magnesium nonyl phenol sulfide, see Magnesium long-chain alkyl phenate sulfide (C8–C20).	34			MPS
Magnesium sulfonate, see Magnesium long-chain alkaryl sulfonate (C11–C50).	34		MSE	MAS
Maleic anhydride	11		MLA.	
Maleic anhydride/sodium allylsulphonate copolymer solution	11			PHN (CFO/CRL/CRO/CRS/CSO)
Maltitol solution	0	1, 3	MTI.	
Mango kernel oil, see 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—Alkoxypoly(alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less).	20	3	MAQ.	
Methacrylic resin in ethylene dichloride	14		MRD.	
Methacrylonitrile	15	2	MET.	
Methane	31		MTH	LNG
3-Methoxy-1-butanol	20		MTX.	
3-Methoxybutyl acetate	34		MOA.	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide, see Metolachlor.	34			MCO
1-Methoxy-2-propyl acetate	34		MXP.	
Methoxy triglycol, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether	40		MTG	PAG (TGY)
Methyl acetate	34		MTT.	
Methyl acetoacetate	34		MAE.	
Methyl acetylene/Propadiene mixture	30		MAP.	
Methyl acrylate	14		MAM.	
Methyl alcohol	20	2	MAL.	
Methylamine solutions (42% or less)	7	3	MSZ.	
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.	
Methyl butanol, see the amyl alcohols	20			AAI/AAL/AAN/APM/ASE/IAA
Methyl butenes, see 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
Methyl isoamyl ketone, see Methyl amyl ketone	18		MAJ	MAK
Methyl isobutyl carbinol, see Methyl amyl alcohol	20		MIC	MAA
Methyl isobutyl ketone	18	2	MIK	MBB/MBK
Methyl methacrylate	14		MMM.	
Methylene bridged isobutylenated phenols	21		MBP.	
Methylene chloride, see Dichloromethane	36			DCM
3-Methyl-3-methoxybutanol	20		MXB.	
3-Methyl-3-methoxybutyl acetate	34		MMB.	
Methyl naphthalene (molten)	32	3	MNA.	
Methylolureas	19		MUS.	
2-Methyl pentane, see Hexane (all isomers)	31			HXS (ALK/HXA/IHA/NHX)
2-Methyl-1,5-pentanediamine	7		MPM.	
4-Methyl-1-pentene, see Hexene (all isomers)	30		MTN	HEX (HXE/HXT/HXU/HXV/MPN)
2-Methyl-1-pentene, see Hexene (all isomers)	30		MPN	HEX (HXE/HXT/HXU/HXV/MTN)
Methyl tert-pentyl ether, see tert-Amyl methyl ether	41			AYE
2-Methyl-1,3-propanediol	20		MDL.	
Methyl propyl ketone	18		MKE.	
2-Methyl-5-ethylpyridine	9		MEP.	
Methylpyridine, see the Methylpyridines	9		MPQ	MPE/MPF/MPR
2-Methylpyridine	9	3	MPR	MPE/MPF/MPQ
3-Methylpyridine	9	3	MPE	MPF/MPQ/MPR
4-Methylpyridine	9	3	MPF	MPE/MPQ/MPR
N-Methyl-2-pyrrolidone	9	2	MPY.	
Methyl salicylate	34		MES.	
alpha-Methylstyrene	30		MSR.	
3-(Methylthio)propionaldehyde	19		MTP.	
Metolachlor	34		MCO.	
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.	
Monoethanolamine, see Ethanolamine	8		MEA.	
Monoethylamine, see Ethylamine	7			EAM (EAN/EAO)
Monoisopropanolamine, see Isopropanolamine	8			MPA (PLA/PLX)
Morpholine	7	2	MPL.	
Motor fuel anti-knock compound (containing lead alkyls)	0	1	MFA.	
MTBE, see Methyl tert-butyl ether	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
Nitric Acid, fuming, see Nitric acid (70% and over)	0	1, 2, 3		NCE
Nitric Acid, red fuming, see Nitric acid (70% and over)	0	1, 2, 3		NCE
Nitrilotriacetic acid, trisodium salt solution	34	3	NCA.	
Nitrobenzene	42		NTB.	
o-Nitrochlorobenzene, see o-Chloronitrobenzene	42			CNO (CNP)
Nitroethane	42		NTE.	
Nitroethane (80%)/Nitropropane (20%)	42	2, 3	NNL	NNM/NNO/NPM/NPN/NPP/NTE
Nitroethane/1-Nitropropane (each 15% or more) mixture	42	2	NNO	NNL/NNM/NPM/NPN/NPP/NTE
Nitrogen	0	1	NXX.	
Nitrophenol (mixed isomers)	42		NPX	NIP/NPH/NTP
o-Nitrophenol (molten)	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
o- or p-Nitrotoluenes	42	3	NIT	NIE/NTR/NTT
Nonane (all isomers), see Alkanes (C6–C9)	31		NAX	ALK (NAN)
Nonanoic acid (all isomers)	4		NNA	NAI/NIN
Nonanoic/Tridecanoic acid mixture	4		NAT	NAI/NIN/NNA
Non-edible industrial grade palm oil, see Oil, misc: Palm, non-edible industrial grade.	34			OPB
Nonene (all isomers)	30	2	NOO	NNE/NON/OAM/OFX/OFY
Nonyl acetate	34		NAE.	
Nonyl alcohol (all isomers)	20	2	NNS	ALR/DBC/NNI/NNN
Nonylbenzene, see Alkyl(C9+)benzenes	32			AKB
Nonyl methacrylate monomer	14		NMA.	
Nonyl phenol	21		NNP.	
Nonyl phenol poly(4+)ethoxylate, see Alkyl (C7–C11) phenol poly (4–12) ethoxylate.	40		NPE	APN
Nonyl phenol sulfide (90% or less) solution, see Alkyl phenol sulfide (C8–C40).	34			AKS (NPS)
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		
Nutmeg butter oil, see Oil, edible: Nutmeg butter	34			ONB (VEO)
1-Octadecene, see the olefin or alpha-olefin entries	30			OAM/OFZ
1-Octadecanol, see Stearyl alcohol	20			SYL (ALY/ASY)
Octadecenoamide solution	10		ODD.	
Octadecenol (oleyl alcohol), see Alcohols (C13+)	20			ALY (AYL/ASY/OYL)
Octamethylcyclotetrasiloxane	34	3	OSA.	
Octane (all isomers), see Alkanes (C6–C9)	31		OAX	ALK (IOO/OAN)
Octanoic acid (all isomers)	4		OAY	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
Octyl alcohol, see Octanol (all isomers)	20	2		OCX (EHX/IOA/OTA)
Octyl aldehydes	19		OAL	EHA/IOC/OLX
Octylbenzenes, see Alkyl (C5–C8) benzenes	32			AKD
Octyl decyl adipate	34		ODA.	
n-Octyl mercaptan	0		OME.	
Octyl nitrates (all isomers), see Alkyl (C7–C9) nitrates	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.	
Octyl phthalate, see 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
Maize, see Oil, edible: Corn	34			OCO (VEO)
Mango kernel	34	3	MKO.	
Nutmeg butter	34		ONB	VEO
Olive	34		OOL	VEO
Palm	34	2	OPM	VEO
Palm kernel	34		OPO	VEO
Palm kernel olein	34		PKO	VEO
Palm kernel stearin	34		PKS	VEO
Palm mid fraction	34		PFM	VEO
Palm olein	34		PON	VEO
Palm stearin	34		PMS	VEO
Peanut	34		OPN	VEO
Poppy	34		OPY	VEO
Poppy Seed	34		OPS	VEO
Raisin seed	34		ORA	VEO
Rapeseed	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
Sunflower, see Oil, edible: Sunflower seed	34		OSN	VEO
Sunflower seed	34		OSN	VEO
Tucum	34		OTC	VEO
Vegetable	34		OVG	VEO
Walnut	34		OWN	VEO
Oil, fuel:				
No. 1	33		OON.	
No. 1–D	33		OOD.	
No. 2	33		OTW.	
No. 2–D	33		OTD.	
No. 4	33		OFR.	
No. 5	33		OFV.	
No. 6	33		OSX.	
Oil, misc:				
Acid mixture from soybean, corn (maize) and sunflower oil refining	34		AOM.	
Aliphatic	33		OML.	
Animal	34		OMA	AFN
Aromatic	33			
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.	
Oleamide solution, see Octadecenoamide solution	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/OFC/OFW/OFX/OFZ
Olefin mixtures (C5–C15)	30	3	OFY	OAM/OFC/OFW/OFX/OFZ
Olefins (C13+, all isomers)	30		OFZ	OAM/OFW
alpha-Olefins (C6–C18) mixtures	30		OAM	OFC/OFW/OFX/OFY/OFZ
Oleic acid	4		OLA.	
Oleum	0	1, 2	OLM	SAC/SFX
Oleyl alcohol, see Alcohols (C13+)	20		OYL	ALY (ASY)
Oleylamine	7		OLY.	
Olive oil, see Oil, edible: Olive	34			OOL (VEO)
Orange juice (concentrated)	0	1	OJC	OJN
Orange juice (not concentrated)	0	1	OJN	OJC
Organomolybdenum amide	10		OGA.	
ORIMULSION, see Asphalt emulsion	33			ASQ
Oxyalkylated alkyl phenol formaldehyde	33		OPF.	
Oxygenated aliphatic hydrocarbon mixture	0	1, 3	OAH.	
Palm acid oil, see Oil, misc: Palm acid	34	3		PLM
Palm fatty acid distillate, see Oil, misc: Palm fatty acid distillate	34	3		PFD
Palm kernel acid oil, see Oil, misc: Palm kernel acid	34			PNO
Palm kernel acid oil, methyl ester, see Oil, misc: Palm kernel acid, methyl ester.	34			PNF
Palm kernel oil, see Oil, edible: Palm kernel	34			OPO (VEO)
Palm kernel oil fatty acid distillate, see Oil, misc: Palm kernel fatty acid distillate.	34			PNG
Palm kernel olein, see Oil, edible: Palm kernel olein	34	3		PKO (VEO)
Palm kernel stearin, see Oil, edible: Palm kernel stearin	34	3		PKS (VEO)
Palm mid fraction, see Oil, edible: Palm mid fraction	34	3		PFM (VEO)
Palm oil, see Oil, edible: Palm	34	2, 3		OPM (VEO)
Palm oil fatty acid methyl ester, see Oil, misc: Palm fatty acid methyl ester	34	3		OPE

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Palm olein, see Oil, edible: Palm Olein	34	3	.....	PON (VEO)
Palm stearin, see Oil, edible: Palm stearin	34	.....	.....	PMS (VEO)
Parachlorobenzotrifluoride	32	.....	PBF.	
Paraffin wax, see Waxes: Paraffin	31	3	.....	WPF
n-Paraffins (C10–C20), see n-Alkanes (C10+)	31	.....	PFN	ALJ
Paraldehyde	19	.....	PDH.	
Paraldehyde-Ammonia reaction product	9	.....	PRB.	
Peanut, see Oil, edible: Peanut	34	.....	.....	OPN (VEO)
Pentachloroethane	36	.....	PCE.	
Pentacosa(oxypropane-2,3-diyl)s	20	.....	POY	
P*entadecanol, see* Alcohols (C13+)	20	.....	PDC	ALY
1,3-Pentadiene	.....	PDE	PDN.	
1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures	30	3	PMM.	
Pentaethylene glycol, see Polyethylene glycols	20	.....	.....	PEG
Pentaethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.	40	.....	.....	PAG
Pentaethylenehexamine	7	.....	PEN.	
Pentaethylenehexamine/Tetraethylenepentamine mixture	7	.....	PEP.	
Pentane (all isomers)	31	.....	PTY	IPT/PTA
Pentanoic acid	4	.....	POC.	
n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture	4	.....	POJ	POC
Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.	43	.....	.....	DYS
Pentene (all isomers)	30	.....	PTX	PTE
Pentyl aldehyde	19	.....	PYL.	
n-Pentyl propionate	34	.....	PPE.	
Perchloroethylene	36	2	PER	TTE
Petrolatum	33	.....	PTL.	
Phenol	21	2	PHN	PNS
Phenol solutions (2% or less)	43	.....	PNS	PHN
1-Phenyl-1-xylyl ethane	32	.....	PXE.	
Phosphate esters	34	.....	PZE.	
Phosphate esters, alkyl(C12–C14)amine	7	.....	PEA.	
Phosphoric acid	1	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.	
PIB, see Poly(4+)Isobutylene (MW≤224)	30			
alpha-Pinene	30	.....	PIO	PIB/PIN
beta-Pinene	30	.....	PIP	PIN/PIO
Pine oil, see Oil, misc: Pine	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.	
Polyalkylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40	.....	PGB	PAG
Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether	40	2	PAG.	
Including:				
Diethylene glycol butyl ether	40			
Diethylene glycol ethyl ether	40			
Diethylene glycol n-hexyl ether	40			
Diethylene glycol methyl ether	40			
Diethylene glycol propyl ether	40			
Dipropylene glycol butyl ether	40			
Dipropylene glycol methyl ether	40			
Polyalkylene glycol butyl ether	40			
Polyethylene glycol monoalkyl ether	40			
Polypropylene glycol methyl ether	40			
Tetraethylene glycol methyl ether	40			
Triethylene glycol butyl ether	40			
Triethylene glycol ethyl ether	40			
Triethylene glycol methyl ether	40			
Tripropylene glycol methyl ether	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.	
Including:				
Diethylene glycol butyl ether acetate	34			
Diethylene glycol ethyl ether acetate	34			
Diethylene glycol methyl ether acetate	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.	
Polycarboxylic ester (C9+), see Ditridecyl adipate	34			DTY
Poly(2+)cyclic aromatics	32		PCA.	
Polydimethylsiloxane, see Dimethylpolysiloxane	34			DMP
Polyether, borated	41		PED.	
Polyether (molecular weight 1350+)	41		PYR.	
Polyether polyols	41		PEO.	
Polyethylene glycol	40		PEG.	
Polyethylene glycol dimethyl ether	40		PEF.	
Poly (ethylene glycol) methylbutenyl ether (MW > 1000)	40		PBN.	
Polyethylene glycol monoalkyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		PEE	PAG
Polyethylene polyamines	7	2	PEB	PEY
Polyethylene polyamines (more than 50% C5–C20 Paraffin oil)	7	2, 3	PEY	PEB
Polyferric sulfate solution	34		PSS.	
Polyglycerine/Sodium salts solution (containing less than 3% Sodium hydroxide).	20	2	PGT	PGS
Polyglycerol	20		PGL.	
Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less)	7	3	PIG	PIM
Polyisobutenamine in aliphatic (C10–C14) solvent	7	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
Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkenamine (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.	
Polypropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.	40		PGM	PAG
Polysiloxane	34		PSX.	
Polysiloxane/White spirit, low (15–20%) aromatic	34		PWS.	
Poly(tetramethylene ether) glycols (mw 950–1050), see 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
Sodium dimethyl naphthalene sulfonate solution, see 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
Sodium hydroxide solution, see Caustic soda solution	5	2		CSS (SHD)
Sodium hypochlorite solution (15% or less)	5		SHP	SHC/SHQ
Sodium hypochlorite solution (20% or less)	5		SHQ	SHC/SHP
Sodium lignosulfonate solution	43		SLG	LNL
Sodium long-chain alkyl salicylate (C13+)	34		SLS.	
Sodium 2-mercaptobenzothiazol solution, see Mercaptobenzothiazol, sodium salt solution.	5			SMB
Sodium methoxide (25% in methanol)	0	1	SMO.	
Sodium methylate 21–30% in methanol	0	1, 2 ,3	SMT	SMS
Sodium naphthalene sulfonate solution, see Naphthalene sulfonic acid (40% or less), sodium salt solution (40% or less).	34		SNS	NSA (NSB)
Sodium naphthenate solution, see Naphthenic acid, sodium salt solution.	43			NTS
Sodium nitrite solution	5		SNI	SNT
Sodium N-methyl dithio carbamate solution, see 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
Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see 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_2S 15 ppm or less)	0	1, 2	SSH	SDS/SHR/SSI/SSJ
Sodium sulfide/Hydrosulfide solution (H_2S greater than 15 ppm but less than 200 ppm).	0	1, 2	SSI	SDS/SHR/SSH/SSJ
Sodium sulfide/Hydrosulfide solution (H_2S greater than 200 ppm)	0	1, 2	SSJ	SDS/SHR/SSH/SSI
Sodium 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
Soyabean fatty acid methyl ester, see Oil, misc: Soyabean fatty acid methyl ester.	34			OST
Soyabean oil (expoxidized)	34		OSC.	
Soyabean oil, see Oil, edible: Soyabean	34	2		OSB (VEO)
Stearic acid, see Fatty acids (saturated, C14+)	34		SRA	FAD (FAB/FAE/FDI/FDT)
Stearyl alcohol	20		SYL	ALY/ASY
Stoddard solvent, see Naphtha: Stoddard solvent	33			NSS
Styrene monomer	30		STY.	
Sulfohydrocarbon (C3–C88)	33		SFO.	
Sulfohydrocarbon, long-chain (C18+) alkylamine mixture	7		SFX.	
Sulfolane	39		SFL.	

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.	
Sunflower seed oil, see Oil, edible: Sunflower seed	34	.....	.....	OSN (VEO)
Sym-trichlorobenzene, see 1,2,4-Trichlorobenzene	36			
Tall oil, see Oil, misc: Tall	34	.....	.....	OTL (OTI/OTJ)
Tall oil fatty acid (resin acids less than 20%), see Oil, misc: Tall oil fatty acid (resin less than 20%).	34	2	.....	OTK (OTT)
Tall oil fatty acid, barium salt	0	1, 2	TOB.	
Tall oil soap (crude)	34	.....	TOR	TOS
Tall oil soap (disproportionated) solution	43	.....	TOS.	
Tall oil, crude, see Oil, misc: Tall, crude	34	2, 3	.....	OTI (OTJ/OTL)
Tall oil, distilled, see Oil, misc: Tall, distilled	34	3	.....	OTJ (OTI/OTL)
Tall oil, fatty acid, see Oil, misc: Tall fatty acid	34	2	.....	OTT
Tall oil, pitch, see Oil, misc: Tall pitch	34	3	.....	OTP (OTI/OTJ/OTL)
Tallow	34	2	TLO.	
Tallow alcohol, see Alcohols (C13+)	20	2	TFA	ALY (ASY)
Tallow alkyl nitrile	37	.....	TAN.	
Tallow fatty acid	34	2	TFD.	
Tallow fatty alcohol, see Alcohols (C13+)	20	2	TFA	ALY
TAME, see tert-Amyl methyl ether	41	.....	.....	AYE
Tertiary butylphenols	21	.....	BLT	BTP
Tetrachloroethane	36	.....	TEC.	
1,1,2,2-Tetrachloroethane, see Tetrachloroethane	36	.....	TEC	TEE
Tetradecanol, see Alcohols (C13+)	20	.....	TTN	ALY
Tetradecene, see olefins or alpha-olefin entries	30	.....	.....	OAM/OFY/OFW/OFZ/TDD
Tetradecylbenzene, see Alkyl(C9+) benzenes	32	.....	TDB	AKB
Tetraethyl silicate monomer/oligomer (20% in ethanol)	0	1, 3	TSM.	
Tetraethylene glycol	40	.....	TTG.	
Tetraethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40	.....	.....	PAG
Tetraethylenepentamine	7	2	TTP.	
Tetrahydrofuran	41	.....	THF.	
Tetrahydronaphthalene	32	.....	THN.	
Tetramethylbenzene (all isomers)	32	.....	TTC	TTB
1,2,3,5-Tetramethylbenzene, see Tetramethylbenzene (all isomers)	32	.....	TTB	TTC
Tetrapropylbenzene, see Alkyl(C9+)benzenes	32	.....	.....	AKB
Tetrasodium salt of ethylenediaminetetraacetic acid solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution.	43	.....	.....	EDS
Titanium dioxide slurry	43	.....	TDS.	
Titanium tetrachloride	2	.....	TTT.	
Toluene	32	2	TOL.	
Toluene diisocyanate	12	2	TDJ	TDI
Toluenediamine	9	.....	TDA.	
o-Toluidine	9	2	TLI	TOD/TOI
Triarylphosphate, see Triisopropylated phenyl phosphates	34	.....	TRA	TPL
Tributyl phosphate	34	.....	TBP.	
1,2,3-Trichlorobenzene (molten)	36	3	TBZ	TCB
1,2,4-Trichlorobenzene	36	.....	TCB	TBZ
1,2,3-Trichlorobenzol, see 1,2,3-Trichlorobenzene (molten)	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.	
Tridecane (all isomers), see Alkanes (C10+) (all isomers)	31	.....	TRD	ALV (ALJ)
Tridecanoic acid	34	.....	TDO.	
Tridecanol, see Alcohols (C13+)	20	.....	TDN	ALY (ASK/ASY/AYK/LAL)
Tridecene, see Olefins (C13+, all isomers)	30	.....	TRD	OAM/OFY/OFW/OFZ/TDC
Tridecyl acetate	34	.....	TAE.	
Tridecylbenzene, see Alkyl(C9+) benzenes	32	.....	TRB	AKB
Triethanolamine	8	2	TEA.	
Triethylamine	7	.....	TEN.	
Triethylbenzene	32	.....	TEB.	

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.	
Triethylene glycol butyl ether, see Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether.	40		TBE	PAG
Triethylene glycol di-(2-ethylbutyrate)	34		TGD.	
Triethylene glycol dibenzoate	34		TGB.	
Triethylene glycol ether mixture	40		TYM.	
Triethylene glycol ethyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		TGE	PAG
Triethylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		TGY	PAG
Triethylenetetramine	7	2	TET.	
Triethyl phosphate	34		TPS.	
Triethyl phosphite	34	2	TPI.	
Triisobutylene	30		TIB.	
Triisooctyl trimellitate	34		TIS.	
Triisopropanolamine	8		TIP.	
Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution.	43			DTI
Triisopropylated phenyl phosphates	34		TPL.	
Trimethylacetic acid	4		TAA.	
Trimethylamine solution (30% or less)	7		TMT	TMA
Trimethylbenzene (all isomers)	32		TRE	TMB/TMD/TME
Trimethyl nonanol, see Dodecanol	20			DDN (ASK/ASY/LAL)
Trimethylol propane polyethoxylated	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.	
Tripropylene, see Propylene trimer	30			PTR
Tripropylene glycol	40		TGC.	
Tripropylene glycol methyl ether, see Poly(2–8)alkylene glycol monoalkyl(C1–C6) ether.	40		TGM	PAG
Trisodium nitrilotriacetate solution, see Nitrilotriacetic acid, trisodium salt solution.	34		TSO	NCA (TSN)
Trisodium phosphate solution	5		TSP.	
Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution.	43			HET
Trixylyl phosphate	34		TRP.	
Trixylenyl phosphate, see Trixylyl phosphate	34			TRP
Tung oil, see Oil, misc: Tung	34			OTG
Turpentine	30		TPT.	
Turpentine substitute, see White spirit (low (15–20%) aromatic)	33			WSL (WSP)
Ucarsol CR Solvent 302 SG	8		UCS.	
Undecane (all isomers), see Alkanes (C10+) (all isomers)	31		UDN	ALV (ALJ)
Undecanoic acid	4		UDA.	
Undecanol, see Undecyl alcohol	20			UND (ALR)
Undecene	30		UDD	UDC
1-Undecene	30		UDC	UDD
Undecyl alcohol	20		UND	ALR
Undecylbenzene, see Alkyl(C9+) benzenes	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/UAU
Vacuum gas oil, see oil misc: Vacuum gas oil	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.	
Including:				
Corn acid oil	34			
Cottonseed acid oil	34			

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

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

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

Chemical name	Group No.	Footnote	CHRIS Code	Related CHRIS codes
Walnut oil	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.	
Vinyltoluene	13		VNT.	
Water	43		WTR.	
Waxes:				
			WAX.	
Candelilla	34		WCD.	
Carnauba	34		WCA.	
Paraffin	31		WPF.	
Petroleum	33		WPT.	
White spirit, see White spirit (low (15–20%) aromatic)	33		WSP	WSL
White spirit (low (15–20%) aromatic)	33		WSL	WSP
Wine, see Alcoholic beverages	20		ABV.	
Wood lignin with Sodium acetate/oxalate	0	1, 3	WOL.	
Xylenes	32	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.	
Zinc bromide/Calcium bromide solution, see Drilling brine (containing Zinc salts).	43			DZB

Notes:
1. Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this commodity is not assigned to a specific group in Figure 1 to 46 CFR part 150 (Compatibility Chart).
2. See Appendix I to 46 CFR part 150 (Exceptions to the Chart).
3. 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 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 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 acid [1]
Liquid chemical wastes
Long-chain alkaryl sulfonic acid (C16–C60) [1]
Magnesium chloride solution [1]
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 240C [1]
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
Oleum [1]
Orange juice (concentrated)
Orange juice (not concentrated)
Oxygenated aliphatic hydrocarbon mixture
Phosphorus, yellow or white
Phosphosulfurized bicycle terpene
Phthalate based polyester polyol [1]
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) solution [1]
Sodium methoxide (25% in methanol)
Sodium methylate 21–30% in methanol
Sodium sulfide/Hydrosulfide solution (H_2S 15 ppm or less)
Sodium sulfide/Hydrosulfide solution (H_2S greater than 15 ppm but less than 200 ppm) [1]
Sodium sulfide/Hydrosulfide solution (H_2S greater than 200 ppm)
Sodium thiocyanate solution (56% or less) [1]
Sulfur (molten)
Sulfur dioxide
Tall oil fatty acid, barium salt [1]
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 acid [1]

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 butryic 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
Diethylamine [1]
Diethylenetriamine [1]
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%)
Ethylamine [1]
Ethylamine solution (72% or less)
N-Ethylbutylamine
N-ethylcyclohexylamine
Ethyleneamine EA 1302 [1]
Ethylenediamine [1]
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
Morpholine [1]
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 polyamines [1]
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

0. UNASSIGNED CARGOES

Polyolefin amine (C17+)
Polyoxypropylenediamine (MW 2000)
n-Propylamine
ROUNDUP
Sodium N-methyl dithio carbamate solution
Sulfohydrocarbon, long-chain (C18+) alkylamine mixture
Tetraethylenepentamine [1]
Triethylamine
Triethylenetetramine [1]
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
Dimethylethanolamine [1]
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-pyrrolidone [1]
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 acrylate [1]
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
Acrylonitrile [1]
Allyl alcohol [1]
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 (octadecenol)

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 (≤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 alcohol [1]
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 alcohol [1]
Ethyl butanol
Ethylene chlorohydrin
Ethylene cyanohydrin
Ethylene glycol [1]
Furfuryl alcohol [1]
Glycerine [1]
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—Alkoxypoly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)
3-Methoxy-1-butanol
Methyl alcohol [1]
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 alcohol [1]
Pentacosa (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 alcohol [1]
Propylene glycol [1]
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
Creosote [1]
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 isobutylenated 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
Nonylbezenes
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) nitrates [1]
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+) alkanoic 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 phosphite [1]
Dimethyl naphthalene sulfonic acid, sodium salt solution[1]
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 solution [1]
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 phosphite [1]
Triisooctyl trimellitate [1]
Triisopropylated phenyl phosphates
Trimethyl phosphite [1]
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 dichloride [1]
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-Trichloroethane [1]
1,1,2-Trichloroethane
Trichloroethylene [1]
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 glycol [1]
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 ether [1]
Ethyl ether
Isopropyl ether
Long-chain alkaryl polyether (C11–C20)
Methyl tert-butyl ether [1]
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 solution [1]
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 solution[1]
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 solution [1]
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 solution [1]
Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution
Sodium silicate solution [1]
Sodium sulfide solution (15% or less)
Sodium sulfite solution (25% or less)
Sodium tartrates/Sodium succinates solution
Sulfonated polyacrylate solution [1]
Tall oil soap (disproportionated) solution
Tetrasodium salt of ethylenediaminetetraacetic acid solution
Titanium dioxide slurry
Triisopropanolamine 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).
Acetone cyanohydrin (0)	Acetic acid (4).
	Acrylates (14).
	Alcohols, Gylcols (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).

Member of reactive group	Compatible with
	Phenols, Cresols (21).
	Substituted Allyls (15).
	Sulfolane (39).
	Vinyl Acetate (13).
	Vinyl Halides (35).
Acrylonitrile (15)	Triethanolamine (8).
1,3-Butylene glycol (20)	Morpholine (7).
1,4-Butylene glycol (20)	Ethylamine (7).
	Triethanolamine (8).
gamma-Butyrolactone (0)	N-Methyl-2-pyrrolidone (9).
Caustic potash, 50% or less (5)	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).
Diphenylmethane diisocyanate (12)	2,2-Dimethylpropane-1,3-diol (20).
	Polypropylene glycol (40).
tert-Dodecanethiol (0)	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).

Member of reactive group	Compatible with
	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).
Dodecyl and Tetradecylamine mixture (7)	Tall oil, fatty acid (34).
Ethylenediamine (7)	Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume) (20).
	Butyl alcohol (20).
	tert-Butyl alcohol (20).
	Butylene glycol (20).
	Creosote (21).
	Diethylene glycol (40).
	Ethyl alcohol (20).
	Ethylene glycol (20).
	Ethyl hexanol (20).
	Fatty alcohols (C12–C14).
	Glycerine (20).
	Isononyl alcohol (20).
	Isophorone (18).
	Methyl butyl ketone (18).
	Methyl iso-butyl ketone (18).
	Methyl ethyl ketone (18).
	Propyl alcohol (20).
	Propylene glycol (20).
Lactic acid (0)	Acetic acid (4).
	Benzene (32).
	Ethanol (20).
	Polypropylene glycol (40).
	Vinyl acetate (13).
Oleum (0)	Hexane (31).
	Dichloromethane (36).
	Perchloroethylene (36).
1,2-Propylene glycol (20)	Diethylenetriamine (7).
	Polyethylene polyamines (7).
	Triethylenetetramine (7).
Sodium cresylate as Cresylate spent caustic (5)	Methyl alcohol (20).
Sodium dichromate solution (70% or less) (0)	Acetone (18).
	n-Butyl alcohol (20).
	Ethyl Acetate (34).
	1-Hexene (30).
	Methyl alcohol (20).
	Octene (all isomers) (30).
	Phosphoric Acid (1).
Sodium hydrogen sulfide solution (5)	iso-Propyl alcohol (20).
Sodium hydrosulfide solution (5)	Methyl alcohol (20).
	Iso-Propyl alcohol (20).
Sodium Methylate 21–30% in methanol (0)	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)	Choice white grease tallow (34).
Urea/Ammonium Nitrate solution (containing less than 1% free Ammonia) (43).	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, *see also* Lignin liquor	Z.
Ammonium nitrate solution (45% or less)	#.
Ammonium phosphate, urea solution, *see also* 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, *see also* Lignin liquor	Z.
Calcium nitrate solutions (50% or less)	**Z.**
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	Z.
Caramel solutions	#.
Chlorinated paraffins (C14–C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains)	X.
Chlorinated paraffins (C14–C17) (with 52% Chlorine)	#.
2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution	#.
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	**Y**.
Choline chloride solutions	Z.
Clay slurry	OS.
Coal slurry	OS.
Dextrose solution, see Glucose solution	
Diethylenetriamine pentaacetic acid, pentasodium salt solution	Z.
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	#.
Dodecenylsuccinic acid, dipotassium salt solution	#.
Drilling brine (containing Calcium, Potassium, or Sodium salts) (*see also* Potassium chloride solution (10% or more))	#.
Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution (if non-flammable and non-combustible).	Z.
Drilling brines (containing Zinc salts)	X.
Drilling mud (low toxicity) (if non-flammable and non-combustible)	#
Ethylene-Vinyl acetate copolymer (emulsion)	Y.
Ferric hydroxyethylethylenediamine triacetic acid, trisodium salt solution	#.
Fish solubles (water based fish meal extracts)	#.
Fructose solution	#.

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) *including: Black, Green, or White liquor*	#.
Lignin liquor (free alkali content, 1% or less) *including:*	Z.
Ammonium lignosulfonate solutions	Z.
Calcium lignosulfonate solutions	Z.
Sodium lignosulfonate solution	Z.
Ligninsulfonic acid, Sodium salt solution	Z.
Magnesium chloride solution	Z.
Magnesium hydroxide slurry	Z.
Magnesium sulfonate solution	#.
Maltitol solution	**OS.**
Microsillica slurry	**OS.**
Milk	#.
Molasses	OS.
Molasses residue (from fermentation)	#.
Naphthalenesulfonic acid-Formaldehyde copolymer, sodium salt solution	Z.
Naphthenic acid, sodium salt solution	#.
Nitrilotriacetic acid, trisodium salt solution	**Y**.
Noxious liquid, NF, (1) n.o.s. (“trade name” contains “principle components”) ST 1, Cat X (if non-flammable and non-combustible).	X.
Noxious liquid, NF, (3) n.o.s. (“trade name” contains “principle components”) ST 2, Cat X (if non-flammable and non-combustible).	X.
Noxious liquid, NF, (5) n.o.s. (“trade name” contains “principle components”) ST 2, Cat Y (if non-flammable and non-combustible).	Y.
Noxious liquid, NF, (7) n.o.s. (“trade name” contains “principle components”) ST 3, Cat Y (if non-flammable and non-combustible).	Y.
Noxious liquid, NF, (9) n.o.s. (“trade name” contains “principle components”) ST 3, Cat Z (if non-flammable and non-combustible).	Z.
Noxious liquid, NF, (11) n.o.s. (“trade name” contains “principle components”) Cat Z (if non-flammable and non-combustible)	Z.
Noxious liquid, NF, (12) n.o.s. (“trade name” contains “principle components”) Cat OS (if non-flammable and non-combustible)	OS.
Orange juice (concentrated)	**OS**.
Orange juice (not concentrated)	**OS**.
Pentasodium salt of Diethylenetriamine pentaacetic acid solution, see Diethylenetriamine pentaacetic acid, pentasodium salt solution.	
Polyaluminum chloride solution	Z.
Potassium chloride solution (26% or more), see Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution.	
Potassium chloride solution (less than 26%)	**OS**.
Potassium formate solutions	**Z**.
Potassium thiosulfate (50% or less)	**Y**.
Sewage sludge, treated (*treated so as to pose no additional decompositional and fire hazard; stable, non-corrosive, non-toxic, non-flammable).*	#.
Silica slurry	#.
Sludge, treated (*treated so as to pose no additional decompositional and fire hazard; stable, non-corrosive, non-toxic, non-flammable).*	#.
Sodium acetate, Glycol, Water mixture (containing 1% or less Sodium hydroxide) (if non-flammable or non-combustible)	#.
Sodium acetate solutions	Z.
Sodium alkyl (C14–C17) sulfonates (60–65% solution)	**Y**.
Sodium aluminosilicate slurry	Z.
Sodium bicarbonate solution (less than 10%)	**OS**.
Sodium carbonate solution	Z.
Sodium hydrogen sulfide (6% or less)/Sodium carbonate (3% or less) solution	Z.
Sodium lignosulfonate solution, *see also* Lignin liquor	Z.
Sodium naphthenate solution (free alkali content, 3% or less), see Naphthenic acid, sodium salt solution	
Sodium poly(4+)acrylate solutions	Z.
Sodium silicate solution	Y.
Sodium sulfate solutions	Z.
Sodium sulfite solution (25% or less)	Y.
Sodium thiocyanate solution (56% or less)	Y.
Sorbitol solution	OS.
Sulfonated polyacrylate solution	Z.
Tetrasodium salt of Ethylenediaminetetraaacetic acid solution, see Ethylenediaminetetraacetic acid, tetrasodium salt solution	

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.
Trisodium salt of N-(Hydroxyethyl)ethylenediamine triacetic acid solution, see N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution.	
Urea, Ammonium mono-and di-hydrogen phosphate, Potassium chloride solution	#.
Urea/Ammonium nitrate solution	**Z**.
Urea/Ammonium phosphate solution	Y.
Urea solution	Z.
Vanillan black liquor (free alkali content, 1% or less)	#.
Vegetable protein solution (hydrolyzed) (if non-flammable and non-combustible)	OS.
Water	OS.
Zinc bromide, Calcium bromide solution, see Drilling brines (containing Zinc salts)	

Explanation of Symbols Used in this Table:
X, Y, Z—NLS Category of Annex II of MARPOL 73/78.
#—No determination of NLS status. For shipping on an oceangoing vessel, see 46 CFR 153.900(c).
OS—Other substances, at present considered to present no harm to marine resources, human health, amenities or other legitimate uses of the sea when discharged into the sea from tank cleaning or deballasting operations.
Abbreviations for Noxious liquid 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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