

DEPARTMENT OF HOMELAND SECURITY

Coast Guard

46 CFR Parts 30 and 150

[Docket No. USCG–2022–0327]

RIN 1625–AC73

2022 Liquid Chemical Categorization Updates

AGENCY: Coast Guard, DHS.

ACTION: Notice of proposed rulemaking.

SUMMARY: The Coast Guard is proposing to align the Liquid Chemical Categorization tables with the 2020 Edition of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk and the International Maritime Organization’s Marine Environment Protection Committee’s Circular 25. The updated tables would provide a list of the liquid hazardous materials and liquefied and compressed gases approved for international and domestic maritime transportation, and indicate how each substance is categorized by its pollution potential, safe carriage requirements, chemical flammability, combustibility, and compatibility with other substances. This proposed rule would impose no additional costs to chemical shippers or vessel owners.

DATES: Comments and related material must be received by the Coast Guard on or before December 21, 2022.

ADDRESSES: You may submit comments identified by docket number USCG–2022–0327 using the Federal eRulemaking Portal at <https://www.regulations.gov>. See the “Public Participation and Request for Comments” portion of the **SUPPLEMENTARY INFORMATION** section for further instructions on submitting comments.

FOR FURTHER INFORMATION CONTACT: For information about this document call or email Dr. Raghunath Halder, U.S. Coast Guard Hazardous Materials Division (CG–ENG–5); telephone 202–372–1422, email Raghunath.Halder@uscg.mil, or Lieutenant Commander Daniel Velez, CG–ENG–5; telephone 202–372–1419, email Daniel.Velez@uscg.mil.

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I. Public Participation and Request for Comments

The Coast Guard views public participation as essential to effective rulemaking, and will consider all comments and material received during the comment period. Your comment can help shape the outcome of this rulemaking. If you submit a comment, please include the docket number for this rulemaking, indicate the specific section of this document to which each comment applies, and provide a reason for each suggestion or recommendation.

Submitting comments. We encourage you to submit comments through the Federal Decision Making Portal at <https://www.regulations.gov>. To do so, go to <https://www.regulations.gov>, type USCG–2022–0327 in the search box and click “Search.” Next, look for this document in the Search Results column, and click on it. Then click on the Comment option. If you cannot submit your material by using <https://www.regulations.gov>, call or email the person in the **FOR FURTHER INFORMATION CONTACT** section of this proposed rule for alternate instructions.

Viewing material in docket. To view documents mentioned in this proposed rule as being available in the docket, find the docket as described in the previous paragraph, and then select “Supporting & Related Material” in the Document Type column. Public comments will also be placed in our online docket and can be viewed by following instructions on the <https://www.regulations.gov> Frequently Asked Questions web page. This web page also explains how to subscribe for email alerts that will notify you when comments are posted or if a final rule is published. We review all comments received, but we will only post comments that address the topic of the proposed rule. We may choose not to post off-topic, inappropriate, or duplicate comments that we receive.

Personal information. We accept anonymous comments. Comments we post to <https://www.regulations.gov> will include any personal information you have provided. For more about privacy and submissions to the docket in

response to this document, see DHS’s eRulemaking System of Records notice (85 FR 14226, March 11, 2020).

We do not plan to hold a public meeting but we will consider doing so if we determine from public comments that a meeting would be helpful. We would issue a separate **Federal Register** notice to announce the date, time, and location of such a meeting.

II. Abbreviations

CAS RN CAS Registry Number
 CFR Code of Federal Regulations
 CG–ENG–5 U.S. Coast Guard Hazardous Materials Division
 DHS Department of Homeland Security
 FR Federal Register
 IBC Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
 LCC Liquid Chemical Categorization
 IMO International Maritime Organization
 MEPC International Maritime Organization’s Marine Environment Protection Committee
 MEPC.2/Circ.25 MEPC Resolution number 2, Circular 25, dated December 1, 2019
 NPRM Notice of proposed rulemaking
 OMB Office of Management and Budget
 § Section
 U.S.C. United States Code

III. Basis and Purpose

The Coast Guard is tasked by Congress with promulgating regulations to improve the shipping practices in the United States. In order to improve the safety in the shipping and handling of hazardous liquid chemicals, since 1983 the Coast Guard has published tables and lists of chemicals that are safe to ship together, and others that are incompatible for co-storage or shipping.

The legal basis of this rulemaking is title 46 of the United States Code (U.S.C.), Section 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 (Administration and enforcement, regulations to implement the International Convention for the Prevention of Pollution from Ships, 1973, or “MARPOL”), 46 U.S.C. 2103 (Superintendence of the merchant marine, general merchant marine regulatory authority), and 46 U.S.C. 3306 (Regulations, 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 the Department of Homeland Security (DHS) Delegation 00170.1, Revision No. 01.2, paragraphs (II)(92)(a) and 92(b).

The purpose of this rulemaking is to provide additions and updates to those regulatory tables that list liquid hazardous materials, liquefied gases, and compressed gases that have been approved for maritime transportation in bulk, and to indicate how each cargo is categorized by its pollution risk and safe carriage requirements.

IV. Background

Each December, the International Maritime Organization's (IMO) Marine Environment Protection Committee (MEPC) releases an annual circular that lists cargoes for which it has completed a multi-year review. A cargo is listed in the circular if a tripartite agreement approves it for international bulk maritime transportation and the MEPC validates the approval. The International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) is periodically revised by parties to the IBC Code to include the cargoes listed in the MEPC annual circulars as of the last edition of the Code.

The Coast Guard, as the administrator of regulations that control liquid chemical shipping practices, has endeavored to update these regulations in order to keep the CFR aligned with international standards. The last time the Coast Guard updated these regulations was in an April 17, 2020 final rule entitled 2013 Liquid Chemical Categorization Updates (85 FR 21660).¹ This proposed rulemaking is the next in a planned series of rulemakings that will periodically update the Code of Federal Regulations (CFR) to align with the latest updates of the IBC Code. The Coast Guard is proposing to align the Liquid Chemical Categorization tables with the 2020 Edition of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk and the International Maritime Organization's Marine Environment Protection Committee's Circular 25, dated December 1, 2019 and entered into force January 1, 2021.

V. Discussion of Proposed Rule

Coast Guard regulations in 46 CFR subchapters D (Tank vessels, parts 30 through 40) and 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. The tables also categorize each cargo's pollution-hazard risk and safe carriage requirements. The categories are developed in the course of the Coast Guard's and the IMO's assessment and review processes, which are described in the following paragraphs. This information is of value to vessel owners and operators, and to shippers of the cargoes involved.

The proposed rule would update these tables to include new chemicals that have been developed by industry and assessed by the IMO between January 1, 2014 and January 1, 2021. In addition, the proposed rule would bring 46 CFR subchapters D and O into closer conformity with the IBC Code.

Agencies responsible for administering international treaties 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, flammability, and combustibility in accordance with the IBC Code. A copy of the tripartite agreement is forwarded to the 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 cannot safely be shipped with other cargoes in adjacent tanks, without special precautions. The compatibility groupings are informed by chemical analyses and test data submitted by manufacturers.

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 each cargo's pollution-hazard risk and flammability and 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 to incorporate the cargoes listed in the MEPC's annual circulars since the last edition of the IBC Code.

This proposed rule is designed to bring the following tables in 46 CFR into conformity with the 2020 Edition of the IBC Code and IMO Resolutions MSC.460(101) and MEPC.318(74) issued on June 14 and May 17, 2019, respectively:

- Table 30.25–1, List of Flammable and Combustible Bulk Liquid Cargoes;
- Table 1 to part 150, Alphabetical List of Cargoes, in subchapter O;
- Table 2 to part 150, Grouping of Cargoes, in subchapter O; and
- Appendix I to part 150, Exceptions to the Chart, in subchapter O.

Table 30.25–1 lists flammable or combustible cargoes that, when transported in bulk, must be certificated under subchapter D regulations. We propose to add chemicals contained in Table 1 to part 150 that are flammable or combustible.

Table 1 to part 150 is a comprehensive table that includes all the cargoes that are subject to the regulations in subchapter D. It lists these cargoes alphabetically and lists the chemical compatibility group number assigned to each cargo. We propose to include cargoes that have been approved for shipping by the IBC Code and MEPC Resolution number 2, Circular 25, dated December 1, 2019 (MEPC.2/Circ.25).

Table 2 to part 150 contains the proper shipping names of all the cargoes listed in Table 1, sorted by chemical compatibility group numbers instead of listed alphabetically. We propose to align Table 2 with Table 1 to part 150 and include cargoes that have been approved for shipping by the IBC Code and MEPC.2/Circ.25.

Appendix I to part 150 contains cargoes listed in Tables 1 and 2 to part 150 that have positive chemical compatibility exceptions. To illustrate, consider the following: cargoes in group X and cargoes in group Y are generally incompatible for co-shipment. However, there is one cargo in group X and one cargo in group Y that, for whatever reason, can be shipped together safely. This is an example of a positive chemical compatibility exception, and it would be listed in Appendix I so that

¹ The Coast Guard corrected minor typographical errors in a correcting amendments document effective May 18, 2020 and entitled 2013 Liquid Chemical Categorization Updates; Correction (85 FR 27308). The Coast Guard corrected additional minor errors in a correcting amendments document effective August 5, 2021 and entitled 2013 Liquid Chemical Categorization Updates (86 FR 42738).

stakeholders can maximize the efficiency of their shipping practices. We propose to update Appendix I to include cargoes from Tables 1 and 2 that have such positive exceptions.

To further illustrate how the chemical categorization tables work together: Appendix II to part 150 contains cargoes listed in Tables 1 and 2 that have negative chemical compatibility exceptions. Even if cargoes from hypothetical group X and group Y are generally compatible for co-shipping, there may be a particular chemical in group X that, when stored with a particular chemical from group Y, can react dangerously. This is an example of a negative chemical compatibility exception, and would be listed in Appendix II so that stakeholders can be sure to ship such cargoes safely. We propose no new changes to Appendix II to part 150.

In addition to the introduction of new chemicals into these tables, the Coast Guard proposes adding a new column to Table 1 of part 150 that will contain a CAS Registry Number. CAS, a division of the non-profit American Chemical Society, designed the CAS Registry to prevent the frustration, delays, and safety concerns that can come with a convoluted system of identifying chemicals. A CAS Registry Number (RN) is a unique and unambiguous identifier

for a specific substance that allows clear communication and links together all available data and research about that substance. Government agencies rely on CAS RNs for substance identification in regulatory applications because they are unique, easily validated, and internationally recognized. The addition of CAS RNs would make it easier to use the information, leading to safer shipping practices.

The proposed rule will also revise the authority citation to 46 CFR part 150 so that it will no longer cite to 44 U.S.C. 3507. This was done because that statute dictates the manner in which the Coast Guard can issue collections of information, rather than delegating authority to edit the CFR.

The Coast Guard considered proposing the removal of the CHRIS codes from the liquid chemical categorization tables. While we decided not to propose such a removal in this proposed rule, the Coast Guard would be interested in any public comments on the utility of CHRIS codes.

VI. Regulatory Analyses

We developed this proposed rule after considering numerous statutes and Executive orders related to rulemaking. A summary of our analyses based on these statutes and Executive orders follows.

A. Regulatory Planning and Review

Executive Orders 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 costs and benefits, reducing costs, harmonizing rules, and promoting flexibility.

The Office of Management and Budget (OMB) has not designated this proposed rule a significant regulatory action under section 3(f) of Executive Order 12866. A regulatory analysis follows.

Summary of Impacts of the Notice of Proposed Rulemaking (NPRM)

In this NPRM, the Coast Guard proposes incorporating information from MEPC.2/Circ.25 into the tables of subchapters D and O to conform the tables to these international standards. In subchapter D, we propose revising table 30.25–1; in subchapter O, we propose revising tables 1 and 2 and Appendix I to part 150. A summary of the impacts from the NPRM follows.

Category	Summary
Applicability	Revise Table 30.25–1 in subchapter D, and Tables 1 and 2 and Appendix I to part 150 in subchapter O to align with the IBC Code and MEPC.2/Circ.25.
Affected Population	All U.S.- and foreign-flagged tank vessels when in U.S. waters.
Costs to Industry	No estimated costs to private industry.
Costs to the Federal Government ..	No estimated costs to the Federal Government.
Qualitative Benefits	Creates consistency with current international standards by incorporating the changes to the IBC Code. Reduces confusion by clarifying regulatory requirements and makes the updated chemical information easier to use.

Affected Population

This proposed rule updates the Liquid Chemical Categorization (LCC) tables that list the names, pollution risk categorization, safe carriage requirements, chemical flammability, combustibility, and chemical compatibility of each hazardous liquid chemical that has been categorized and approved for maritime transportation in bulk by the IMO and the Coast Guard. In this proposed rule, the Coast Guard is making no new decisions about whether any specific liquid bulk dangerous cargo should be approved for maritime transportation, about how any specific cargo should be categorized, or about carriage requirements that should apply to any specific cargo. The rule would provide updated information

about cargoes that are currently approved for maritime transportation in bulk, and the cargo’s pollution categorization and minimum transportation safety requirements. The rule would also add a column to Table 1 of part 150 containing the applicable CAS RNs. This proposed rule would apply to the carriage of the cargoes from the tank vessel population described in 46 CFR 30.01–5, 150.110 (with exceptions outlined in 46 U.S.C. 3702), 153.1, and 154.5. All U.S.- and foreign-flagged tank vessels are included, unless exempted by 46 CFR 30.01–5 or 46 CFR 153.1. This proposed rule would also apply to U.S.- and foreign-flagged self-propelled bulk cargo-carrying vessels when in U.S. waters. Foreign tank vessels are exempt from this proposed

regulation when on innocent passage through U.S. waters.

Costs

This proposed rule would update the tables to reflect decisions already made under international law regarding which liquid chemical substances are approved for bulk maritime transportation, and how those substances should be categorized with respect to their pollution risk. The Coast Guard already applies these standards when assessing ad hoc domestic carriage requests for bulk liquid chemicals. Vessel owners and shippers would have to comply with these standards to receive Coast Guard approval for carriage. Industry is aware of this procedure, and we believe that shippers already comply with these

standards. Therefore, the Coast Guard does not expect that this proposed rule would change established shipping requirements or current practices among chemical shippers. No additional labor or equipment will be required because of this rule. As a result, we expect that there will be no incremental private sector costs to chemical shippers or vessel owners. Further, we do not anticipate that the proposed rule would impose any costs on the Coast Guard. This proposed rule incorporates the Coast Guard's compatibility categorizations, as well as chemical cargoes and categorizations listed in IMO's 2021 IBC Code amendments and MEPC.2/Circ.25.

Benefits

The proposed rule would provide qualitative benefits by conforming regulatory language to practices currently allowed by the Coast Guard, either through individual letters of approval from the Hazardous Materials Division (CG-ENG-5) or the IBC Code. In updating the LCC tables, the Coast Guard would align the domestic shipping requirements for liquid bulk dangerous cargoes with current international standards. Coast Guard expects this proposed rule to serve the public through greater clarity regarding the regulatory requirements in the LCC tables and through easier use of chemical safety information. This proposed rule would codify existing practices which would decrease confusion as to what are the regulatory requirements in the LCC tables.

B. Small Entities

Under the Regulatory Flexibility Act, 5 U.S.C. 601-612, 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.

There are no small shippers engaged in the transport of the LCC chemicals. In addition, the proposed rule does not impose economic costs on the regulated public. The Coast Guard does not expect that small entities would incur any incremental costs; therefore, the Coast Guard finds that there is not a substantial number of small entities nor a significant economic impact.

The Coast Guard certifies under 5 U.S.C. 605(b) that this proposed rule would 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 proposed rule would have a significant economic impact on it, please submit a comment to the docket at the address listed in the **ADDRESSES** section of this preamble. In your comment, explain why you think it qualifies and how and to what degree this proposed rule would economically affect it.

C. Assistance for Small Entities

Under section 213(a) of the Small Business Regulatory Enforcement Fairness Act of 1996, Public Law 104-121, we want to assist small entities in understanding this proposed rule so that they can better evaluate its effects on them and participate in the rulemaking. If the proposed rule would affect your small business, organization, or governmental jurisdiction and you have questions concerning its provisions or options for compliance, please call or email the person in the **FOR FURTHER INFORMATION CONTACT** section of this proposed rule. 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.

Small businesses may send comments on the actions of Federal employees who enforce, or otherwise determine compliance with, Federal regulations to the Small Business and Agriculture Regulatory Enforcement Ombudsman and the Regional Small Business Regulatory Fairness Boards. The Ombudsman evaluates these actions annually and rates each agency's responsiveness to small business. If you wish to comment on actions by employees of the Coast Guard, call 1-888-REG-FAIR (1-888-734-3247).

D. Collection of Information

This proposed rule would call for no new or revised collection of information under the Paperwork Reduction Act of 1995, 44 U.S.C. 3501-3520. This proposed rule simply would update and revise 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 Executive Order 13132 (Federalism) if it has a substantial direct effect on 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

Executive Order 13132 and have determined that it is consistent with the fundamental federalism principles and preemption requirements described in Executive Order 13132. Our analysis follows.

It is well settled that States may not regulate in categories reserved for regulation by the Coast Guard. It is also well settled 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 the field foreclosed from regulation by the States. See *United States v. Locke*, 529 U.S. 89, 120 S.Ct. 1135 (2000). This proposed rule would amend existing regulations for inspected tank vessels carrying certain bulk dangerous cargoes. These cargoes fall within the categories in 46 U.S.C. 3703 and 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 Executive Order 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 would have implications for federalism under Executive Order 13132, please call or email the person listed in the **FOR FURTHER INFORMATION CONTACT** section of this preamble.

F. Unfunded Mandates

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 million (adjusted for inflation) or more in any one year. Although this proposed rule would not result in such an expenditure, we do discuss the

effects of this proposed rule elsewhere in this preamble.

G. Taking of Private Property

This proposed rule would not cause a taking of private property or otherwise have taking implications under Executive Order 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 Executive Order 12988, (Civil Justice Reform), to minimize litigation, eliminate ambiguity, and reduce burden.

I. Protection of Children

We have analyzed this proposed rule under Executive Order 13045 (Protection of Children from Environmental Health Risks and Safety Risks). This proposed rule is not an economically significant rule and would not create an environmental risk to health or risk to safety that might disproportionately affect children.

J. Indian Tribal Governments

This proposed rule does not have tribal implications under Executive Order 13175 (Consultation and Coordination with Indian Tribal Governments), because it would 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 Executive Order 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 order because it is not a “significant regulatory action” under Executive Order 12866 and is not likely to have a significant adverse effect on the supply, distribution, or use of energy.

L. Technical Standards

The National Technology Transfer and Advancement Act, codified as a note to 15 U.S.C. 272, directs agencies to use voluntary consensus standards in their regulatory activities unless the agency provides Congress, through 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. It is based on international standards that were developed using consensus standards development processes.

M. Environment

We have analyzed this proposed rule under Department of Homeland Security Management Directive 023–01, Rev. 1, associated implementing instructions, and Environmental Planning COMDTINST 5090.1 (series), which guide the Coast Guard in complying with the National Environmental Policy Act of 1969 (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 Record of Environmental Consideration supporting this determination is available in the docket. For instructions on locating the docket, see the **ADDRESSES** section of this preamble.

This proposed rule would be categorically excluded under paragraphs L54 and L58 of Appendix A, Table 1 of DHS Instruction Manual 023–01–001–01, Rev. 1.² Paragraph L54 pertains to promulgation of regulations that are editorial or procedural; paragraph L58 pertains to regulations concerning equipment approval and carriage requirements. This proposed rule involves updates to the LCC tables in order to align them with the 2021 IBC Code amendments and MEPC.2/Circ.25. These tables provide a list of liquid hazardous material and liquefied and compressed gases that are approved for international and domestic maritime transportation, and indicate how each substance is categorized by its pollution potential, safe carriage requirements, chemical flammability, combustibility, and compatibility with other substances. All of these changes are consistent with the Coast Guard’s maritime safety and stewardship missions. We seek any comments or information that may lead to the discovery of a significant environmental impact from this proposed rule.

² https://www.dhs.gov/sites/default/files/publications/DHS_Instruction%20Manual%20023-01-001-01%20Rev%2001_508%20Admin%20Rev.pdf.

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.

For the reasons discussed in the preamble, the Coast Guard is proposing to amend 46 CFR parts 30 and 150 as follows:

PART 30—GENERAL PROVISIONS

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

Authority: 46 U.S.C. 2103, 3306, 3703; DHS Delegation 00170.1, Revision No. 01.2, paragraph (I)(92)(a), 92(b).

■ 2. In § 30.25–1, amend Table 30.25–1 as follows:

- a. After the entry for “Alcohol (C9-C11) poly(2.5-9) ethoxylate”, add an entry for “Alcohol (C10-C18) poly (7) ethoxylates”;
- b. After the entry for “Alkylbenzene sulfonic (alternately sulphonic) acid (4% or less)”, add, in alphanumeric order, the entries, “Alkylbenzenes mixtures (containing naphthalene)” and “Alkyl/cyclo (C4-C5) alcohols”;
- c. After the entry for “Alkyl phenol sulfide (alternately sulphide) (C8-C40), see Alkyl (C8-C40) phenol sulfide (alternately sulphide)”, add, in alphanumeric order, the entries, “Alkylphenols (C10-C18, C12 rich)” and “Alkyl (C10-C15, C12 rich) phenol poly (4-12) ethoxylate”;
- d. After the entry for “Cottonseed oil, fatty acid”, add an entry for “Cresol/Phenol/Xylenol mixture”;
- e. After the entry for “Cyclohexane”, add an entry for “Cyclohexane-1, 2-dicarboxylic acid, diisononyl ester”;
- f. After the entry for “Dodecene (all isomers)”, add an entry for “1-Dodecene”;
- g. After the entry for “Dodecyl hydroxypropyl sulfide (alternately sulphide)”, add an entry for “n-Dodecyl mercaptan”;
- h. After the entry for “Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture”, add, in alphanumeric order, the entries, “Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture” and “Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture”;
- i. After the entry for “Gasoline (Natural gas condensate”, add an entry for “Glucitol/Glycerol blend

propoxylated (containing less than 10% amines)”;

■ j. Remove the entry for “Glucitol/glycerol blend propoxylated (containing 10% or more amines)” and, in its place, add an entry for “Glucitol/Glycerol blend propoxylated (containing 10% or more amines)”;

■ k. After the entry for “Hexaethylene glycol, see Polyethylene glycol”, add an entry for “Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)”;

■ l. After the entry for “Long-chain alkylphenate/Phenol sulfide (alternately sulphide) mixture”, add, in alphanumeric order, the entries, “Long-chain alkylphenol (C14-C18)” and “Long-chain alkylphenol (C18-C30)”;

■ m. After the entry for “Naphthenic acid”, add an entry for “Naphthalene crude (molten)”;

■ n. After the entry for “Octyl phthalate, see Dioctyl phthalate”, add, in alphanumeric order, the entries for “Offshore contaminated bulk liquid P”; and “Offshore contaminated bulk liquid S”;

■ o. Add an entry for “Oil, misc.:", and, in alphanumeric order, add the subentries, “Used cooking oil” and “Used cooking oil (triglycerides, C16-C18 and C18 unsaturated)”;

■ p. After the entry for “Polyolefin amide alkeneamine polyol”, add an entry for “Polyolefin amine (C17+)”;

■ q. After the entry for “Raisin seed oil”, add an entry for “Rapeseed acid oil”;

■ r. After the entry for “Rapeseed oil fatty acid methyl esters”, remove the entry for “Rape seed oil fatty acid methyl esters*”;

■ s. After the entry for “Undecylbenzene, see Alkyl (C9+) benzenes”, add an entry for “Vegetable acid oils, n.o.s.” and a subentry for “Vegetable oil mixtures, containing less than 15% free fatty acid”; and

■ t. Under the entry for “Waxes”, add, in alphanumeric order, a subentry for “Hydrocarbon”.

The additions read as follows:

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

* * * * *

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

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

Cargo name	IMO Annex II pollution category
Alcohol (C10-C18) poly (7) ethoxylates	Y
Alkylbenzenes mixtures (containing naphthalene)	X
Alkyl/cyclo (C4-C5) alcohols	Y
Alkylphenols (C10-C18, C12 rich);	Y
Alkyl (C10-C15, C12 rich) phenol poly (4-12)ethoxylate	Y
Cresol/Phenol/Xylenol mixture	Y
Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	Y
1-Dodecene	Y
n-Dodecyl mercaptan	X
Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture	Y
Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture	Z
Glucitol/Glycerol blend propoxylated (containing less than 10% amines)	Y
Glucitol/Glycerol blend propoxylated (containing 10% or more amines)	Z
Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	Y
Long-chain alkylphenol (C14-C18)	Y
Long-chain alkylphenol (C18-C30)	Y
Naphthalene crude (molten)	Y
Offshore contaminated bulk liquid P	X
Offshore contaminated bulk liquid S	X

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

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

Cargo name	IMO Annex II pollution category
Oil, misc.:	
Used cooking oil	X
Used cooking oil (triglycerides, C16-C18 and C18 unsaturated)	Y
Polyolefin amine (C17+)	Y
Rapeseed acid oil	#
Vegetable acid oils, n.o.s.	
Vegetable oil mixtures, containing less than 15% free fatty acid (m)	Y
Waxes:	
Hydrocarbon	Y

PART 150—COMPATIBILITY OF CARGOES

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

Authority: 46 U.S.C. 3306, 3703; DHS Delegation No. 00170.1; Revision No. 01.2, paragraph (II), 92(b).

■ 4. Revise Table 1 to part 150 to read as follows:

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Acetaldehyde	19		75-07-0	AAD.	
Acetic acid	4	2	64-19-7	AAC.	
Acetic anhydride	11	2	108-24-7	ACA.	
Acetochlor	10		34256-82-1	ACG.	
Acetone	18	2	67-64-1	ACT.	
Acetone cyanohydrin	0	1, 2	75-86-5	ACY.	
Acetonitrile	37		75-05-8	ATN.	
Acetonitrile (low purity grade)	37	3	75-05-8	AIL.	
Acetophenone	18		98-86-2	ACP.	
Acid oil mixture from soyabean, corn (maize) and sunflower oil refining, see Oil, misc.: Acid mixture from soyabean, corn (maize), and sunflower oil refining.		3			AOM.
Acrolein	19	2	107-02-8	ARL.	
Acrylamide solution (50% or less)	10	3	79-06-1	AAM	AAO.
Acrylic acid	4	2	79-10-7	ACR.	
Acrylic acid/ethenesulfonic (alternately ethenesulphonic) acid copolymer with phosphonate groups, sodium salt solution.	30	3		APG.	
Acrylonitrile	15	2	107-13-1	ACN.	
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol	20		9003-54-7	ALE.	
Adiponitrile	37		111-69-3	ADN.	
Alachlor technical (90% or more)	33	3	15972-60-8	ALH	ALI.
Alcohol (C12-C13, branched and linear) poly(4-8) propoxy sulfates (alternately sulphates), sodium salt 25-30% solution.	41	3		ABL.	
Alcohol (C9-C11) poly(2.5-9) ethoxylates	20	3	*68439-46-3	AET	ALY/APV/APW.
Alcohol (C10-C18) poly (7) ethoxylates	20		85422-93-1	ALE	ALY/APV/APW.
Alcohol (C6-C17) (secondary) poly(3-6) ethoxylates	20	3	*84133-50-6	AEA	AEB.
Alcohol (C6-C17) (secondary) poly(7-12) ethoxylates	20	3	*84133-50-6	AEB	AEA.
Alcohol (C12-C16) poly(1-6) ethoxylates	20	3	*68551-12-2	AED	AET/ALY/APW.
Alcohol (C12-C16) poly(7-19) ethoxylates	20	3	*68551-12-2	APV	AET/ALY/APV.
Alcohol (C12-C16) poly(20+) ethoxylates	20	3	*68551-12-2	APW	AET/ALY.
Alcohol (C12-C15) poly (. . .) ethoxylate, see Alcohol (C12-C16) poly (. . .) ethoxylate.			*68131-39-2		
Alcohol polyethoxylates	20		*68439-50-9		AEA/AEB/AED/ AET/APV/APW.
Alcohol polyethoxylates, secondary	20		*84133-50-6		AEA/AEB.
Alcoholic beverages, n.o.s.	20	3	64-17-5	ABV.	
Alcohols (C12+), primary, linear	20	3	*112-53-8	ASY	ALR/AYK/AYL.
Alcohols (C8-C11), primary, linear, and essentially linear	20		*111-87-5	ALR	AYK/AYL.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Alcohols (C12-C13), primary, linear, and essentially linear	20	3	*112-53-8	AYK	ALR/ASY/AYL.
Alcohols (C14-C18), primary, linear, and essentially linear	20	3	*112-72-1	AYL	ALR/ASY/AYK.
Alcohols (C13+)	20		*112-70-9	ALY	ASY/AYK.
<i>Including:</i>					
<i>Cetyl alcohol (Hexadecanol)</i>	20		36653-82-4		
<i>Oleyl alcohol (Octadecanol)</i>	20		112-92-5		
<i>Pentadecanol</i>	20		629-76-5		
<i>Tallow alcohol</i>	20		99561-04-3		
<i>Tetradecanol</i>	20		112-72-1		
<i>Tridecanol</i>	20		112-70-9		
Alkanes (C10-C26), linear and branched (flash point >60 °C)	31	3	*124-18-5	ABD.	
Alkanes (C10-C26), linear and branched (flash point ≤60 °C)	31	3	*124-18-5	ABE.	
Alkanes (C6-C9)	31		*110-54-3	ALK.	
<i>Including:</i>					
<i>Heptanes</i>	31		142-82-5		
<i>Hexanes</i>	31		110-54-3		
<i>Nonanes</i>	31		111-84-2		
<i>Octanes</i>	31		111-65-9		
iso- & cyclo-Alkanes (C10-C11)	31		*34464-38-5	AKI.	
iso- & cyclo-Alkanes (C12+)	31		*31807-55-3	AKJ.	
n-Alkanes (C9-C11)	31	3	*111-84-2		
n-Alkanes (C10+) (all isomers)	31		*124-18-5	ALV	ALJ.
<i>Including:</i>					
<i>Decanes</i>	31		124-18-5		
<i>Dodecanes</i>	31		112-40-3		
<i>Heptadecanes</i>	31		629-78-7		
<i>n-Paraffins (C10-C20)</i>	31		*124-18-5	PFN	ALJ.
<i>Tridecanes</i>	31		629-50-5		
<i>Undecanes</i>	31		1120-21-4		
<i>Alkane (C14-C17) sulfonic (alternately sulphonic) acid, sodium salt solutions, see Sodium alkyl (C14-C17) sulfonates (alternately sulphonates) (60-65% solution).</i>			85711-69-9	AKA	SAA (AKE/SSU).
Alkaryl polyethers (C9-C20)	41			AKP.	
Alkenoic acid, polyhydroxy ester borated	0	1, 3		AAV.	
Alkenyl (C11+) amide	10			AKM.	
Alkenyl (C8+) amine, Alkenyl (C12+) acid ester mixture	34			AAA.	
Alkenyl (C16-C20) succinic anhydride	11		*32072-96-1	AAH.	
Alkyl acrylate-Vinyl pyridine copolymer in Toluene	32			AAP.	
Alkyl amine (C17+)	7		*4200-95-7	AKY.	
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers).	34		78-31-9	ADP.	
Alkylated (C4-C9) hindered phenols	21	3	*98-54-4	AYO.	
Alkyl (C3-C4) benzenes	32		*103-65-1	AKC.	
<i>Including:</i>					
<i>Butylbenzenes</i>	32	3	104-51-8		
<i>Cumene</i>	32		98-82-8		
<i>Propylbenzenes</i>	32		103-65-1		
Alkyl (C5-C8) benzenes	32		*538-68-1	AKD.	
<i>Including:</i>					
<i>Amylbenzenes</i>	32		538-68-1		
<i>Heptylbenzenes</i>	32		2132-85-6		
<i>Hexylbenzenes</i>	32		1077-16-3		
<i>Octylbenzenes</i>	32		2189-60-8		
Alkyl (C9+) benzenes	32		*1081-77-2	AKB.	
<i>Including:</i>					
<i>Decylbenzenes</i>	32		104-72-3		
<i>Dodecylbenzenes</i>	32		29986-57-0		
<i>Nonylbenzenes</i>	32		1081-77-2		
<i>Tetradecylbenzenes</i>	32		1459-10-5		
<i>Tetrapropylbenzenes</i>	32		635-11-0		
<i>Tridecylbenzenes</i>	32		123-02-4		
<i>Undecylbenzenes</i>	32		6742-54-7		
Alkyl benzene distillation bottoms	0	1, 3		ABB.	
Alkylbenzene mixtures (containing at least 50% of Toluene)	32	3	*108-88-3	AZT.	
Alkylbenzenes mixtures (containing naphthalene)	20			ALB	AZT.
Alkylbenzene, Alkylindane, Alkylindene mixture (each C12-C17)	32			AIH.	
Alkyl (C11-C17) benzene sulfonic (alternately sulphonic) acid	0	1, 3	*50854-94-9	ABN	ABS/ABQ.
Alkylbenzene sulfonic (alternately sulphonic) acid (less than 4%)	0	1, 2	*104-15-4	ABQ	ABS/ABN.
Alkylbenzene sulfonic (alternately sulphonic) acid, sodium salt solution	33		*657-84-1	ABT.	
Alkyl/cyclo (C4-C5) alcohols	20			AAL.	
Alkyl (C12+) dimethylamine	7	3	*112-18-5	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	AEQ.
Alkyl (C7-C9) nitrates	34	2	*20633-12-9	AKN	ONE.
Alkyl (C7-C11) phenol poly(4-12) ethoxylate	40			APN	NPE.
Alkyl (C10-C15, C12 rich) phenol poly (4-12)ethoxylate	40			APX	APN.
Alkyl (C4-C9) phenols	21		*1638-22-8	AYI	BLT/BTP/NNP/ OPH.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Alkylphenols (C10-C18, C12 rich)	21			ALP	AYI/DOL.
Alkyl phenol sulfide (alternately sulphide) (C8-C40), see Alkyl (C8-C40) phenol sulfide (alternately sulphide).					AKS.
Alkyl (C8-C40) phenol sulfide (alternately sulphide)	34			AKS.	
Alkyl (C9-C15) phenyl propoxylate	40		* 9064-15-7	AXL.	
Alkyl (C8-C9) phenylamine in aromatic solvents	9			ALP.	
n-Alkyl phthalates, see individual phthalates				AYS.	
Alkyl polyglucoside solution, see individual polyglucoside solutions				AGD	AGL/AGM/AGN/AGO/AGP.
Alkyl (C8-C10) polyglucoside solution (65% or less)	43	3	* 29836-26-8	AGL	AGD/AGM/AGN/AGO/AGP.
Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less).	43	3	* 29836-26-8	AGN	AGD/AGL/AGM/AGO/AGP.
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	43	3	* 29836-26-8	AGO	AGD/AGL/AGN/AGP.
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less).	43	3	* 29836-26-8	AGP	AGD/AGL/AGM/AGN/AGO.
Alkyl (C12-C14) polyglucoside solution (55% or less)	43	3	* 59122-55-3	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		* 4100-80-5	AUA.	
Alkyl sulfonic (alternately sulphonic) acid ester of phenol	34		91082-17-6	AKH.	
Alkyl toluene	32		* 95-47-6	AYL	AUS.
Alkyl (C18+) toluenes	32	3	* 94135-42-9	AUS	AYL.
Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid	0	1, 3	* 3386-32-1	AUU.	
Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, borated.	34	3		AUB.	
Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, high overbase.	33	3		AUC.	
Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, low overbase.	33	3		AUL.	
Allyl alcohol	15	2	107-18-6	ALA.	
Allyl chloride	15		107-05-1	ALC.	
Aluminum (alternately, Aluminium) chloride/Hydrochloric acid solution, see "Aluminum (alternately, Aluminium) chloride/Hydrogen chloride solution".		1		AHS	AHG.
Aluminum (alternately Aluminium) chloride/Hydrogen chloride solution	0	1, 3		AHG	AHS.
Aluminum (alternately Aluminium) hydroxide/sodium hydroxide/sodium carbonate solution (40% or less).	5	3		AHN.	
Aluminum sulfate (alternately Aluminium sulphate) solution	43	2	10043-01-3	ASX	ALM.
Amine C-6, morpholine process residue	9			AOI.	
Aminoethyldiethanolamine/Aminoethylethanolamine solution	8			ADY.	
2-(2-Aminoethoxy) ethanol	8		929-06-6	AEX.	
Aminoethylethanolamine	8		111-41-1	AEE.	
N-Aminoethylpiperazine	7		140-31-8	AEP.	
2-Amino-2-hydroxymethyl-1,3-propanediol solution	43		77-86-1	AHL.	
2-Amino-2-methyl-1-propanol	8		124-68-5	APZ	APQ/APR.
Ammonia, anhydrous	6		7664-41-7	AMA.	
Ammonia, aqueous (28% or less Ammonia), see Ammonium hydroxide			1336-21-6		AMH.
Ammonium bisulfite (alternately bisulphite) solution (70% or less)	43	2	10192-30-0	ABX	ASU.
Ammonium chloride solution (less than 25%)	43	3	12125-02-9	AIS	AMC.
Ammonium hydrogen phosphate solution	0	1	7783-28-0	AMI.	
Ammonium hydroxide (28% or less Ammonia)	6		1336-21-6	AMH.	
Ammonium lignosulfonate (alternately lignosulphonate) solution, see also Lignin liquor.			8061-53-8	ALG	LNL.
Ammonium nitrate solution (45% or less)	0	1	6484-52-2	AND	AMN/ANR/ANW.
Ammonium nitrate solution (93% or less)	0	1	6484-52-2	ANW	AMN/AND/ANR.
Ammonium nitrate/Urea solution (containing Ammonia), see Urea/Ammonium nitrate solution (containing 1% or more Ammonia).					UAS (ANU/UAT/UAU/UAV).
Ammonium nitrate/Urea solution (not containing Ammonia), see Urea/Ammonium nitrate solution (containing less than 1% Ammonia).					UAU (ANU/UAS/UAT/UAV).
Ammonium phosphate/Urea solution, see Urea/Ammonium phosphate solution.					UAP (APP/URE).
Ammonium polyphosphate solution	43		68333-79-9	AMO.	
Ammonium sulfate (alternately sulphate) solution	43		7783-20-2	ASW	AME/AMS.
Ammonium sulfate (alternately sulphate) solution (20% or less)	43		7783-20-2	AME	AMS/ASW.
Ammonium sulfide (alternately sulphide) solution (45% or less)	5	3	12135-76-1	ASS	ASF.
Ammonium thiocyanate/Ammonium thiosulfate (alternately thiosulphate) solution.	0	1		ACV	ACS.
Ammonium thiosulfate (alternately thiosulphate) solution (60% or less)	43	3	7783-18-8	ATV	ATF.
Amyl acetate (all isomers)	34	3	628-63-7	AEC	IAT/AML/AAS/AYA.
Amyl acid phosphate	34		12789-46-7	AIA.	
Amyl alcohol, primary	20	3	71-41-0	APM	AAI/AAL/AAN/APM/IAA.
n-Amyl alcohol	20	3	71-41-0	AAN	AAI/AAL/APM/ASE/IAA.
sec-Amyl alcohol	20	3	584-02-1	ASE	AAI/AAL/AAN/APM/IAA.
tert-Amyl alcohol	20	3	75-85-4	AAL	AAI/APM/ASE/IAA.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
tert-Amyl ethyl ether	41		919-94-8	AER.	
tert-Amyl methyl ether	41		994-05-8	AYE.	
Amyl methyl ketone, <i>see</i> Methyl amyl ketone			110-43-0	AMJ	MAK (AMK).
Amylene, <i>see</i> Pentene (all isomers)			109-67-1	AMW	PTX (AMX/AMZ/ PTE).
tert-Amylenes, <i>see</i> Pentene (all isomers)			513-35-9	AMZ	PTX (AMW).
Aniline	9		62-53-3	ANL.	
Animal and Fish oils, n.o.s.	34			AFN.	
Including:					
Cod liver oil	34		8001-69-2		
Lanolin	34		8006-54-0		
Neatsfoot oil	34		8002-64-0		
Pilchard oil	34				
Sperm oil	34		8002-24-2		
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), <i>see</i> Coal tar			65996-91-0	AHO	COR.
Apple juice	43			APJ.	
Argon, liquefied	0	1	7440-37-1	ARG.	
Aryl polyolefin (C11-C50)	30			AYF.	
Asphalt	33		8052-42-4	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 isoparaffins BPT 95-120 °C)	33	3	111-65-9	AVA	GAK/GAV.
Barium long-chain (C11-C50) alkaryl sulfonate (alternately sulphonate)	34			BCA.	
Barium long-chain alkyl (C8-C14) phenate sulfide (alternately sulphide)	34			BCH.	
Behenyl alcohol	20		661-19-8	BHY.	
Benzene	32	2	71-43-2	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 (alternately Benzenesulphonyl) chloride	0	1, 2	98-09-9	BSC.	
Benzenetricarboxylic acid, trioctyl ester	34		89-04-3	BCE.	
Benzyl acetate	34		140-11-4	BZE.	
Benzyl alcohol	21		100-51-6	BAL.	
Benzyl chloride	36		100-44-7	BCL.	
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point >60 °C (>25% but <99% by volume).	33	3		BIF	BIG/BIH/BII/BIJ/ BIK.
Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point ≤60 °C (>25% but <99% by volume).	33	3		BIG	BIF/BIH/BII/BIJ/ BIK.
Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume)	34	3		BIH	BIF/BIG/BII/BIJ/ BIK.
Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume).	34	3		BII	BIF/BIG/BIH/BIJ/ BIK.
Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume).	20	2, 3		BIJ	BIF/BIG/BIH/BII/ BIK.
Bis (2-ethylhexyl) terephthalate	34		6422-86-2	DHH.	
Boronated Calcium sulfonate (alternately sulphonate)	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		74-97-5	BCM.	
Butadiene (all isomers)	30		106-99-0	BDI.	
Butadiene/Butylene mixtures (containing Acetylenes)	30			BBM	BBX/BDI/BTN/IBL.
Butane (all isomers)	31		106-97-8	BMX	IBT/BUT.
Butane/Propane mixture	31			BUP	LPG.
1,4-Butanediol, <i>see</i> Butylene glycol			110-63-4	BDO	BUG.
2-Butanone, <i>see</i> Methyl ethyl ketone		2	78-93-3		MEK.
Butene oligomer	30			BOL.	
Butene, <i>see</i> Butylenes (all isomers)			106-98-9		BUT/IBL.
2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)	20				
Butyl acetate (all isomers)	34	3	123-86-4	BAX	BCN/BTA/BYA/ IBA.
Butyl acrylate (all isomers)	14	3	141-32-2	BAR	BAI/BTC.
Butyl alcohol (all isomers)	20	2, 3	71-36-3	BAY	BAN/BAS/BAT/ IAL.
Butyl alcohol (iso-, n-, sec-, tert-), <i>see</i> Butyl alcohol (all isomers)		2	71-36-3		BAN/BAS/BAT/ BAY/IAL.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Butylamine (all isomers)	7	3	109-73-9	BTY	BAM/BTL/BUA/ IAM. AKC.
<i>Butylbenzene (all isomers), see Alkyl (C3-C4) benzenes</i>		3	104-51-8	BBE	
Butyl benzyl phthalate	34		85-68-7	BPH.	
Butyl butyrate (all isomers)	34	3	109-21-7	BBA	BIB/BUB.
Butylene glycol	20	2	107-88-0	BUG	BDO.
1,2-Butylene oxide	16		106-88-7	BTO.	
Butylenes (all isomers)	30		106-98-9	BTN	IBL.
n-Butyl ether	41	3	142-96-1	BTE.	
n*-Butyl ether	41		142-96-1	BTE.	
<i>iso-Butyl formate, see Isobutyl formate</i>		3	542-55-2	BFI	BFN/BFO.
n-Butyl formate	34		592-84-7	BFN	BFI/BFO.
Butyl heptyl ketone	18		19780-10-0	BHK.	
Butyl methacrylate	14		97-88-1	BMH	BMI/BMN. DER (BMH/BMI/ BMN/CEM).
<i>Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture, see Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture.</i>		3			
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	14	3		DER	BMH/BMI/BMN/ CEM. MBJ (MBK/MIK).
<i>Butyl methyl ketone, see Methyl butyl ketone</i>		2	591-78-6		
Butyl phenol, Formaldehyde resin in Xylene	32				
n-Butyl propionate	34		209-669-5	BPN.	
Butyl stearate	34		123-95-5	BST.	
Butyl toluene	32		1595-05-7	BUE.	
Butyraldehyde (all isomers)	19	3	123-72-8	BAE	BAD/BTR.
Butyric acid	4		107-92-6	BRA	IBR.
gamma-Butyrolactone	0	1, 2	96-48-0	BLA.	
C9 Resinfeed (DSM)	32			CNR.	
<i>Calcium alkaryl sulfonate (alternately sulphonate) (C11-C50), see Calcium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50).</i>		3		CAE	CAY.
Calcium alkyl (C9) phenol sulfide (alternately sulphide), polyolefin phosphorosulfide (alternately phosphorosulphide) mixture.	34			CPX.	
Calcium alkyl (C10-C28) salicylate	34	3		CAJ.	
<i>Calcium bromide solution, see Drilling brines</i>			7789-41-5	CBI	DRB. CAJ/CAK/CAZ.
<i>Calcium alkyl salicylate, see Calcium long-chain alkyl salicylate (C13+), Calcium long-chain alkyl (C18-C28) salicylate, or Calcium alkyl (C10-C28) salicylate.</i>					
<i>Calcium bromide solution, see Drilling brines</i>			7789-41-5	CBI	DRB. DZB.
<i>Calcium bromide/Zinc bromide solution, see Drilling brine (containing Zinc salts).</i>					
Calcium carbonate slurry	34		471-34-1	CSR.	
<i>Calcium chloride solution, see Drilling brines</i>			10043-52-4	CCS	CLC.
Calcium hydroxide slurry	5		1305-62-0	COH	CAH.
Calcium hypochlorite solution (15% or less)	5	3	7778-54-3	CHU	CHY/CHZ.
Calcium hypochlorite solution (more than 15%)	5	3	7778-54-3	CHZ	CHU/CHY.
<i>Calcium lignosulfonate (alternately lignosulphonate) solution, see also Lignin liquor.</i>			8061-52-7	CLL	LNL.
Calcium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50)	34		722503-69-7	CAY.	
<i>Calcium long-chain alkyl (C8-C40) phenate, see Calcium long-chain alkyl (C5-C10) phenate or Calcium long-chain alkyl (C11-C40) phenate.</i>				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/ CAW.
Calcium long-chain alkyl phenate sulfide (alternately sulphide) (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	10124-37-5	CNU	CNT.
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	34			CLM	CNT/CNU/MGN/ MGO/PCS/ PCU/PSD.
Calcium salts of fatty acids	34		85251-71-4	CFF.	
Calcium stearate	34		1592-23-0	CSE.	
Calcium sulfonate (alternately sulphonate)/Calcium carbonate/Hydrocarbon solvent mixture.	33			CSH.	
<i>Camelina oil, see Oil, misc.: Camelina</i>		3	68956-68-3	CEL.	
Camphor oil (light)	18		8008-51-3	CPO.	
<i>Canola oil, see Oil, edible: Rapeseed (low erucic acid containing less than 4% free fatty acids).</i>			120962-03-0		ORO (ORP).
<i>Caprolactam solution, see epsilon-Caprolactam (molten or aqueous solutions).</i>			105-60-2	CLS.	
epsilon-Caprolactam (molten or aqueous solutions)	22	3	105-60-2	CLU	CLS.
Caramel solutions	43		8028-89-5	CML.	
Carbolic oil	21		108-95-2	CBO.	
Carbon dioxide (high purity)	0	1	124-38-9	CDH	CDO/CDQ.
Carbon dioxide (reclaimed quality)	0	1	124-38-9	CDQ	CDH/CDQ.
Carbon dioxide, liquefied	0	1	124-38-9	CDO	CDH/CDQ.
Carbon disulfide (alternately disulphide)	38		75-15-0	CBB.	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Carbon tetrachloride	36	2	56-23-5	CBT	CBU.
Cashew nut shell oil (untreated), see Oil, misc.: Cashew nut shell (untreated).			8007-24-7		OCN.
Castor oil, see Oil, edible: Castor	34		8001-79-4		OCA (VEO).
Catoxid feedstock	36	2		CXF.	
Caustic potash solution	5	2	1310-58-3	CPS.	
Caustic soda solution	5	2	1310-73-2	CSS.	
Cesium formate solution	43	3	3495-36-1	CSM.	
Cetyl alcohol (Hexadecanol), see Alcohols (C13+)			36653-82-4		ALY (ASY/AYL).
Cetyl alcohol, see Alcohols (C13 +)	20		36653-82-4		ALY (ASY/AYL).
Cetyl/Eicosyl methacrylate mixture	14	1		GEM.	
Cetyl/Stearyl alcohol, see Alcohols (C13+)					ALY (ASY/AYL).
Chlorinated paraffins (C10-C13)	36		* 1002-69-3	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		* 3386-33-2	CLG	CLH/CLJ.
Chlorine	0	1	7782-50-5	CLX.	
Chloroacetic acid (80% or less)	4	3	79-11-8	CHM	CHL/MCA.
Chlorobenzene	36	2	108-90-7	CRB.	
Chlorodifluoromethane, see Monochlorodifluoromethane			75-45-6	MCF.	
2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution	0	1	287476-17-9	CET.	
1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one	18	2	66346-01-8	CDP.	
2- or 3-Chloropropionic acid	4		29617-66-1 or 107-94-8	CPM	CLA/CLP.
Chloroform	36		67-66-3	CRF.	
Chlorohydrins (crude)	17	3	* 107-07-3	CHD.	
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	9			CDM.	
o-Chloronitrobenzene	42		88-73-3	CNO	CNP.
Chlorosulfonic (alternately Chlorosulphonic) acid	0	1	7790-94-5	CSA.	
m-Chlorotoluene	36	3	108-41-8	CTM	CHI/CRN/CTO.
o-Chlorotoluene	36	3	95-49-8	CTO	CHI/CRN/CTM.
p-Chlorotoluene	36	3	106-43-4	CRN	CHI/CTM/CTO.
Chlorotoluenes (mixed isomers)	36	3	25168-05-2	CHI	CRN/CTM/CTO.
Choline chloride solutions	20		67-48-1	CCO.	
Citric acid (70% or less)	4	3	77-92-9	CIS	CIT.
Clay slurry	43		1332-58-7	CLY.	
Coal slurry	43		125612-26-2	COG	COA.
Coal tar	33		8007-45-2	COR	OCT.
Coal tar crude bases	33		65996-84-1	CTB.	
Coal tar distillate, see Naphtha: Coal tar solvent			65996-91-0	CDL	NCT (CTU).
Coal tar naphtha solvent, see Naphtha: Coal tar solvent			65996-91-0		NCT (CDL/CTU).
Coal tar pitch (molten)	33	3	65996-93-2	CTP.	
Coal tar, high temperature	33		65996-89-6	CHH.	
Cobalt naphthenate in solvent naphtha	34		61789-51-3	CNS.	
Cocoa butter, see Oil, edible: Cocoa butter			8002-31-1		OCB (VEO).
Coconut oil, see Oil, edible: Coconut		2	8001-31-8		OCC (VEO).
Coconut oil, fatty acid, see Oil, misc.: Coconut fatty acid		2	61788-47-4		CFA.
Coconut oil, fatty acid methyl ester, see Oil, misc.: Coconut fatty acid methyl ester.		3	61788-59-8		OCM.
Copper salt of long-chain (C17 +) alkanolic acid	34			CUS	CFT.
Copper salt of long-chain (C3-C16) fatty acid	34		* 3112-74-1	CFT	CUS.
Corn oil, see Oil, edible: Corn			8001-30-7		OCO (VEO).
Corn syrup	43		8029-43-4	CSY.	
Cottonseed oil, see Oil, edible: Cottonseed			8001-29-4		OCS (VEO).
Cottonseed oil, fatty acid, see Oil, misc.: Cottonseed oil, fatty acid			68308-51-0	CFY.	
Creosote	21	2		CCW	CCT/CWD.
Creosote (coal tar)	21	2, 3	8001-58-9	CCT	CCW.
Creosote (wood tar)	21	2, 3	8021-39-4	CWD	CCT/CCW.
Cresol/Phenol/Xylenol mixture	21			CXX.	
Cresols (all isomers)	21	3	1319-77-3	CRS	CFO/CFP/CRL/ CRO/CSC/CSO.
Cresols with 5% or more Phenol, see Phenol				CFP	PHN (CFO/CRL/ CRO/CRS/ CSO).
Cresols with less than 5% Phenol, see Cresols (all isomers)				CFO	CRS (CFP/CRL/ CRO/CSO).
Cresylate spent caustic, see Cresylic acid, sodium salt solution		2		CSC	CYD.
Cresylic acid	21		1319-77-3	CRY.	
Cresylic acid, dephenolized	21		1319-77-3	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	34689-46-8	CYD	CSC.
Crotonaldehyde	19	2	123-73-9	CTA.	
Crude Isononylaldehyde, see Isononylaldehyde (crude)			5435-64-3		INC.
Crude Isopropanol	20		67-63-0		IPB (IPA/PAL).
Crude Piperazine, see Piperazine (crude)			110-85-0		PZC (PPZ/PIZ).
Cumene, see Alkyl(C3-C4) benzenes			98-82-8	CUM	AKD (PBYP/PBZ).
1,5,9-Cyclododecatriene	30		4904-61-4	CYT.	
Cycloheptane	31		291-64-5	CYE.	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Cyclohexane	31		110-82-7	CHX.	
Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	34		166412-78-8	CDE.	
Cyclohexane oxidation products, sodium salts solution	43			CYS.	
Cyclohexanol	20		108-93-0	CHN.	
Cyclohexanone	18	2	108-94-1	CCH.	
Cyclohexanone/Cyclohexanol mixtures	18	2		CYX.	
Cyclohexyl acetate	34		622-45-7	CYC.	
Cyclopentadiene/Styrene/Benzene mixture	30			CSB.	
1,3-Cyclopentadiene dimer (molten)	30	3	7313-32-8	CPD	DPT/DPV.
Cyclopentane	31		287-92-3	CYP.	
Cyclopentene	30		142-29-0	CPE.	
p-Cymene	32		99-87-6	CMP.	
Decahydronaphthalene	33		91-17-8	DHN.	
Decaldehyde	19		112-31-2	DAY	IDA/DAL.
<i>iso-Decaldehyde, see Isodecaldehyde.</i>			3085-26-5		
n-Decaldehyde	19		3085-26-5		
<i>Decane (all isomers), see n-Alkanes (C10+) (all isomers)</i>			124-18-5	DCC	ALV (ALJ).
Decanoic acid	4		334-48-5	DCO	NEA.
Decene	30		872-05-9	DCE.	
Decyl acetate	34		112-17-4	DYA.	
Decyl acrylate	14		2156-96-9	DAT	IAI/DAR.
Decyl alcohol (all isomers)	20	2, 3	85566-12-7	DAX	ISA/DAN.
Decyl/Dodecyl/Tetradecyl alcohol mixture	20	3	*112-30-1	DYO	DAN/DAX/DDN/ ISA.
<i>Decylbenzene, see Alkyl (C9+) benzenes</i>			104-72-3	DBZ	AKB.
Decyloxytetrahydrothiophene dioxide	0	1	18760-44-6	DHT.	
Detergent alkylate	32		68442-97-7	DKY	AKB/DBZ/DBB/ TDB/TRB/UBB.
<i>Dextrose solution, see Glucose solution</i>			50-99-7	DTS	GLU.
Diacetone alcohol	20	2	123-42-2	DAA.	
<i>Dialkyl (C10-C14) benzenes, see Alkyl (C9+) benzenes</i>			*55191-38-3	DAB	AKB.
Dialkyl(C8-C9) diphenylamines	9		*101-67-7	DAQ.	
Dialkyl (C7-C13) phthalates	34		*3648-21-3	DAH.	
<i>Including:</i>					
<i>Di-(2-ethylhexyl) phthalate</i>	34		117-81-7		
<i>Diheptyl phthalate</i>	34		3648-21-3		
<i>Dihexyl phthalate</i>	34		84-75-3		
<i>Diisooctyl phthalate</i>	34		131-20-4		
<i>Diisodecyl phthalate</i>	34		89-16-7		
<i>Diisononyl phthalate</i>	34		28553-12-0		
<i>Dinonyl phthalate</i>	34		84-76-4		
<i>Diocetyl phthalate</i>	34		117-84-0		
<i>Ditridecyl phthalate</i>	34		119-06-2		
<i>Diundecyl phthalate</i>	34		3648-20-2		
<i>Dialkyl (C9-C10) phthalates, see Dialkyl (C7-C13) phthalates</i>			*84-76-4	DLK	DLH (DAP/DHL/ DHP/DID/DIE/ DIF/DIN/DIO/ DIT/DOP/DPA/ DTP/DUP).
Dialkyl thiophosphates sodium salts solution	34	3	*26377-29-7	DYH.	
2,6-Diaminohexanoic acid phosphonate mixed salts solution	21			DBT.	
Dibromomethane	36		74-95-3	DBH.	
<i>Dibutyl carbinol, see Nonyl alcohol (all isomers)</i>			623-93-8		NNS (DBC/NNI/ NNN).
Dibutyl hydrogen phosphonate	34		107-66-4	DHD.	
Dibutyl phthalate	34		84-74-2	DPA	DIT.
Dibutyl terephthalate	34	3	1962-75-0	DYE.	
Dibutylamine	7		111-92-2	DBA.	
Dibutylphenol (all isomers)	21			DBT.	
Dibutylphenols	21		26967-68-0	DBT.	
Di-tert-butylphenol	21		128-39-2	DBF	DBT/DBV/DBW.
2,4-Di-tert-butylphenol	21		96-76-4	DBV	DBF/DBT/DBW.
2,6-Di-tert-butylphenol	21	3	128-39-2	DBW	DBF/DBT/DBV.
Dichlorobenzene (all isomers)	36	3	25321-22-6	DBX	DBM/DBO/DBP.
3,4-Dichloro-1-butene	36		760-23-6	DCD	DCB.
Dichlorodifluoromethane	36		75-71-8	DCF.	
1,1-Dichloroethane	36		75-34-3	DCH.	
Dichloroethyl ether	41	3	111-44-4	DYR	DEE.
1,6-Dichlorohexane	36		2163-00-0	DHX.	
2,2'-Dichloroisopropyl ether	41		63283-80-7	DCL.	
Dichloromethane	36	2	75-09-2	DCM.	
2,4-Dichlorophenol	21		120-83-2	DCP.	
2,4-Dichlorophenoxyacetic acid/Diethanolamine salt solution	43		5742-19-8	DDE.	
2,4-Dichlorophenoxyacetic acid/Dimethylamine salt solution (70% or less)	0	1, 2, 3	2008-39-1	DDA	DAD/DSX.
2,4-Dichlorophenoxyacetic acid/Triisopropanolamine salt solution	43	2	34075-45-1	DTI.	
1,1-Dichloropropane	36		78-99-9	DPB	DPC/DPL/DPP/ DPX.
1,2-Dichloropropane	36	2, 3	78-87-5	DPP	DPB/DPC/DPL/ DPX.
1,3-Dichloropropane	36		142-28-9	DPC	DPB/DPL/DPP/ DPX.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Dichloropropene (all isomers)	15		26952–23–8	DCW	DPF/DPU.
1,3-Dichloropropene	15		542–75–6	.....	DCW/DPF.
Dichloropropene/Dichloropropane mixtures	15		8003–19–8	DMX	DCW/DPB/DPC/ DPL/DPP/DPU/ DPX.
2,2-Dichloropropionic acid	4		75–99–0	DCN.	
Dicyclopentadiene, Resin Grade, 81–89%	30	3	77–73–6	DPV	CPD/DPT.
<i>Dicyclopentadiene, see</i> 1,3-Cyclopentadiene dimer (molten)			77–73–6	DPT	CPD (DPV).
Diethanolamine	8	2	111–42–2	DEA.	
<i>Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see</i> 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution.			5742–19–8	DZZ	DDE.
Diethylamine	7		109–89–7	DEN.	
Diethylaminoethanol	8		100–37–8	DAE.	
2,6-Diethylaniline	9		579–66–8	DMN	DIY.
Diethylbenzene	32		25340–17–4	DEB.	
Diethylene glycol	40	2	111–46–6	DEG.	
<i>Diethylene glycol butyl ether, see</i> Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.			112–34–5	DME	PAG.
<i>Diethylene glycol butyl ether acetate, see</i> Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate.			124–17–4	DEM	PAF.
Diethylene glycol dibenzoate	34		120–55–8	DGZ.	
Diethylene glycol dibutyl ether	40		112–73–2	DIG.	
Diethylene glycol diethyl ether	40		112–36–7	DGS.	
<i>Diethylene glycol ethyl ether, see</i> Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.			111–90–0	DGE	PAG.
<i>Diethylene glycol ethyl ether acetate, see</i> Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.			112–15–2	DGA	PAF.
<i>Diethylene glycol n-hexyl ether, see</i> Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.			112–59–4	DHE	PAG.
<i>Diethylene glycol methyl ether, see</i> Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.			111–77–3	DGM	PAG.
<i>Diethylene glycol methyl ether acetate, see</i> Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.			629–38–9	DGR	PAF.
Diethylene glycol phenyl ether	40		104–68–7	DGP.	
Diethylene glycol phthalate	34		2202–98–4	DGL.	
<i>Diethylene glycol propyl ether, see</i> Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.			6881–94–3	DGO	PAG.
Diethylenetriamine	7	2	111–40–0	DET.	
Diethylenetriaminepentaacetic acid, pentasodium salt solution	43		140–01–2	DYS.	
<i>Diethylethanolamine, see</i> Diethylaminoethanol			100–37–8	.....	DAE.
Diethyl ether	8		60–29–7	EET.	
<i>Diethyl hexanol, see</i> Decyl alcohol (all isomers)			19398–78–8	.....	DAX.
Di-(2-ethylhexyl) adipate	34		103–23–1	DEH.	
Di-(2-ethylhexyl) phosphoric acid	1		298–07–7	DEP.	
<i>Di-(2-ethylhexyl) phthalate, see</i> Dialkyl (C7-C13) phthalate			117–81–7	DIE	DAH.
Di-(2-ethylhexyl) terephthalate	34		6422–86–2	DHH.	
Diethyl phthalate	34		84–66–2	DPH.	
Diethyl sulfate (alternately sulphate)	34		64–67–5	DSU.	
Diglycidyl ether of Bisphenol A	16		1675–54–3	BDE.	
Diglycidyl ether of Bisphenol F	16		2095–03–6	DGF.	
<i>Diheptyl phthalate, see</i> Dialkyl (C7-C13) phthalate			3648–21–3	DHP	DAH.
Di-n-hexyl adipate	34		110–33–8	DHA.	
<i>Dihexyl phthalate, see</i> Dialkyl (C7-C13) phthalate			84–75–3	DHL.	
<i>Diisobutyl carbinol, see</i> Nonyl alcohol (all isomers)			108–82–7	DBC	NNS.
Diisobutyl ketone	18		108–83–8	DIK.	
Diisobutyl phthalate	34		84–69–5	DIT	DPA.
Diisobutylamine	7		110–96–3	DBU.	
Diisobutylene	30		25167–70–8	DBL.	
<i>Diisodecyl phthalate, see</i> Dialkyl (C7-C13) phthalates			26761–40–0	DID	DAH.
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	5		73347–80–5	DDH.	
Diisononyl adipate	34		33703–08–1	DNY.	
<i>Diisononyl phthalate, see</i> Dialkyl (C7-C13) phthalates			28553–12–0	DIN	DAH.
<i>Diisooctyl phthalate, see</i> Dialkyl (C7-C13) phthalate		2	27554–26–3	DIO	DAH/(DIE/DOP).
Diisopropanolamine	8		110–97–4	DIP.	
Diisopropylamine	7		108–18–9	DIA	DNA.
Diisopropylbenzene (all isomers)	32		25321–09–9	DIX.	
Diisopropylinaphthalene	32		24157–81–1	DII.	
1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution	5		73347–80–5	DDH.	
N,N-Dimethylacetamide	10		127–19–5	DAC	DLS.
N,N-Dimethylacetamide solution (40% or less)	10	3	127–19–5	DLS	DAL.
Dimethyl adipate	34		627–93–0	DLA.	
Dimethylamine	7		124–40–3	DMA	DMC/DMG/DMY.
<i>Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see</i> 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution.			2039–46–5	.....	CDM.
<i>Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see</i> 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less).			2008–39–1	DAD	DDA (DSX).
Dimethylamine solution (45% or less)	7	3	124–40–3	DMG	DMA/DMC/DMY.
Dimethylamine solution (greater than 45% but not greater than 55%)	7	3	124–40–3	DMY	DMA/DMC/DMG.
Dimethylamine solution (greater than 55% but not greater than 65%)	7	3	124–40–3	DMC	DMA/DMG/DMY.
2,6-Dimethylaniline	9		87–62–7	DMM	DDL.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Dimethylbenzene, see Xylenes</i>		2	1330–20–7		XLX/XLM/XLO/ XLP.
Dimethylcyclosiloxane hydrolyzate	34		* 541–05–9	DXZ.	
N,N-Dimethylcyclohexylamine	7		98–94–2	DXN.	
Dimethyl disulfide (alternately disulphide)	0	1, 2, 3	624–92–0	DSK.	
<i>Dimethyldodecylamine, see N,N-Dimethyldodecylamine</i>	7		112–18–5		DDY.
N,N-Dimethyldodecylamine	7		112–18–5	DDY.	
Dimethylethanolamine	8		108–01–0	DMB.	
Dimethyl ether	41		115–10–6	DIM.	
Dimethylformamide	10	2	68–12–2	DMF.	
Dimethyl furan	41		625–86–5	DFU.	
Dimethyl glutarate	34		1119–40–0	DGT.	
Dimethyl hydrogen phosphite	34	2	868–85–9	DPI.	
Dimethyl naphthalene sulfonic (alternately sulphonic) acid, sodium salt solution.	34	2	27178–87–6	DNS.	
Dimethyl octanoic acid	4		29662–90–6	DMO.	
Dimethyl phthalate	34		131–11–3	DTL.	
<i>Dimethylpolysiloxane, see Polydimethylsiloxane</i>			9016–00–6	DMP.	
2,2-Dimethylpropane-1,3-diol (molten or solution)	20	3	126–30–7	DDI.	
Dimethyl succinate	34		106–65–0	DSE.	
Dinitrotoluene (molten)	42	3	121–14–2	DNM	DNL/DNU/DTT.
<i>Dinonyl phthalate, see Dialkyl (C7-C13) phthalates</i>			84–76–4	DIF	DAH.
<i>Diocetyl phthalate, see Dialkyl (C7-C13) phthalates</i>			117–84–0	DOP	DAH (DIE/DIO).
1,4-Dioxane	41		123–91–1	DOX.	
Dipentene	30		138–86–3	DPN.	
Diphenyl	32		92–52–4	DIL.	
Diphenylamine (molten)	9		122–39–4	DAG	DAM.
Diphenylamine, reaction product with 2,2,4-trimethylpentene	9		68921–45–9	DAK.	
Diphenylamines, alkylated	9		68921–45–9	DAJ.	
Diphenyl/Diphenyl ether mixtures	33		8004–13–5	DDO.	
Diphenyl ether	41		101–84–8	DPE.	
<i>Diphenyl ether/Biphenyl ether mixture, see Diphenyl/Diphenyl ether mixture.</i>			8004–13–5		DDO.
Diphenyl ether/Diphenyl phenyl ether mixture	41		8004–13–5	DOB.	
Diphenylmethane diisocyanate	12	2	101–68–8	DPM.	
<i>Diphenyl oxide, see Diphenyl ether</i>			101–84–8		DPE.
Diphenylol propane-Epichlorohydrin resins	0	1	25068–38–6	DPR.	
Di-n-propylamine	7		142–84–7	DNA	DIA.
Dipropylene glycol	40		25265–71–8	DPG.	
<i>Dipropylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			29911–28–2	DBG	PAG.
Dipropylene glycol dibenzoate	34		94–51–9	DGY.	
<i>Dipropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			34590–94–8	DPY	PAG.
Distillates, flashed feed stocks	33		8002–05–9	DFF.	
Distillates, straight run	33		68814–87–9	DSR.	
Di-tert-butyl phenol	21			DBF	DBT/DBV/DBW.
2,4-Di-tert-butyl phenol	21		96–76–4	DBV	DBF/DBT/DBW.
2,6-Di-tert-butyl phenol	21		128–39–2	DBW	DBF/DBT/DBW.
Dithiocarbamate ester (C7-C35)	34			DHO.	
Ditridecyl adipate	34		16958–92–2	DTY.	
<i>Ditridecyl phthalate, see Dialkyl (C7-C13) phthalate</i>			119–06–2	DTP	DAH.
<i>Diundecyl phthalate, see Dialkyl (C7-C13) phthalates</i>			3648–20–2	DUP	DAH.
<i>Dodecane (all isomers), see n-Alkanes (C10+) (all isomers)</i>			13475–82–6	DOF	ALV (ALJ/DOC).
tert-Dodecanethiol	20	2	25103–58–6	DDL	LRM.
Dodecene (all isomers)	30	3	25378–22–7	DOZ	DDC/DOD.
1-Dodecene, <i>see Dodecene (all isomers)</i>	30			DDC	DOZ.
<i>Dodecanol (all isomers), see Dodecyl alcohol (all isomers)</i>			112–53–8	DDN	LAL.
2-Dodecenylnsuccinic acid, dipotassium salt solution	34		57195–28–5	DSP.	
Dodecyl alcohol (all isomers)	20	2	112–53–8	DDN	ASK/ASY/LAL.
Dodecylamine/Tetradecylamine mixture	7	2	* 124–22–1	DTA.	
<i>Dodecylbenzene, see Alkyl (C9+) benzenes</i>			123–01–3	DDB	AKB.
Dodecylbenzenesulfonic (alternately Dedecylbenzenesulphonic) acid	0	1, 2	27176–87–0	DSA.	
Dodecyl dimethylamine/Tetradecyl dimethylamine mixture	7		* 112–18–5	DOT.	
Dodecyl diphenyl ether disulfonate (alternately disulphonate) solution	43		25167–32–2	DTA.	
Dodecyl hydroxypropyl sulfide (alternately sulphide)	0	1	67124–09–8	DOH.	
n-Dodecyl mercaptan	21		112–55–0	DBT.	
Dodecyl methacrylate	14		142–90–5	DDM.	
Dodecyl/Octadecyl methacrylate mixture	14		* 142–90–5	DDM	DDM.
Dodecyl/Pentadecyl methacrylate mixture	14		* 142–90–5	DDP.	
Dodecyl phenol	21		27193–86–8	DOL.	
Dodecyl xylene	32		66697–27–6	DXY.	
Drilling brines (containing Calcium, Potassium or Sodium salts)	43			DRL	DRB/DRS.
Drilling brines (containing Zinc salts)	43			DZB	DRB.
Drilling brines, including: Calcium bromide solution, Calcium chloride solution and Sodium chloride solution.	43	3			DRS/DRL.
Drilling mud (low toxicity) (<i>if flammable or combustible</i>)	33			DRO	DRM/DRN/DRP.
Drilling mud (low toxicity) (<i>if non-flammable or non-combustible</i>)	43			DRP	DRM/DRN/DRO.
Epichlorohydrin	17		106–89–8	EPC.	
Epoxy resin	16			EPN.	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>ETBE</i> , see Ethyl tert-butyl ether			637–92–3		EBE.
Ethane	31		74–84–0	ETH.	
Ethanolamine	8		141–43–5	MEA.	
<i>2-Ethoxyethanol</i> , see Ethylene glycol monoalkyl ethers			110–80–5	EEO	EGC (EGE).
2-Ethoxyethyl acetate	34	2	111–15–9	EEA	EGA.
Ethoxylated alkoxy alkyl amine	8		68155–39–5	ELM.	
<i>Ethoxylated alcohols, C11-C15</i> , see alcohol polyethoxylates			9002–92–0		AEA/AEB/AED/ AET/APV/APW/ APX.
Ethoxylated long-chain (C16+) alkoxyalkylamine	8			ELA.	
Ethoxylated tallow alkyl amine	7		61791–26–2	TAY	TAG/TAR.
Ethoxylated tallow alkyl amine, glycol mixture	7			TAG	TAR/TAY.
Ethoxylated tallow amine (>95%)	7	3	61791–26–2	TAR	TAG/TAY.
<i>Ethoxy triglycol</i> , see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether			112–50–5	ETG	PAG (ETR/TGE).
Ethoxy triglycol (crude)	40		112–50–5	ETR.	
Ethyl acetate	34	2	141–78–6	ETA.	
Ethyl acetoacetate	34		141–97–9	EAA.	
Ethyl acrylate	14	2	140–88–5	EAC.	
Ethyl alcohol	20	2	64–17–5	EAL.	
Ethylamine	7	2	75–04–7	EAM	EAN/EAO.
Ethylamine solution (72% or less)	7	3	75–04–7	EAN	EAM/EAO.
Ethyl amyl ketone	18		106–68–3	EAK	ELK.
Ethylbenzene	32		100–41–4	ETB.	
Ethyl butanol	20		97–95–0	EBT.	
N-Ethylbutylamine	7		13360–63–9	EBA.	
Ethyl tert-butyl ether	41	2	637–92–3	EBE.	
Ethyl butyrate	34		105–54–4	EBR.	
Ethyl chloride	36		75–00–3	ECL.	
Ethyl cyclohexane	31		1678–91–7	ECY.	
N-Ethylcyclohexylamine	7		5459–93–8	ECC.	
2-Ethyl-2-(2,4-dichlorophenoxy) acetate	34		533–23–3	EDY.	
2-Ethyl-2-(2,4-dichlorophenoxy) propionate	34		58048–39–8	EDP.	
S-Ethyl dipropylthiocarbamate	34	3	759–94–4	ECB.	
Ethylene	30		74–85–1	ETL.	
Ethyleneamine EA 1302	7	2	593–67–9	EMX.	
Ethylene carbonate	34		96–49–1	ECR.	
Ethylene chlorohydrin	20		107–07–3	ECH.	
Ethylene cyanohydrin	20	2	109–78–4	ETC.	
Ethylenediamine	7	2	107–15–3	EDA	EMX.
Ethylenediaminetetraacetic acid/tetrasodium salt solution	43		64–02–8	EDS.	
Ethylene dibromide	36		106–93–4	EDB.	
Ethylene dichloride	36	2	107–06–2	EDC.	
Ethylene glycol	20	2	107–21–1	EGL	EAG.
Ethylene glycol acetate	34		542–59–6	EGO.	
<i>Ethylene glycol butyl ether</i> , see Ethylene glycol monoalkyl ethers			111–76–2	EGM	EGC.
<i>Ethylene glycol tert-butyl ether</i> , see Ethylene glycol monoalkyl ethers			7580–85–0	EGG	EGC.
Ethylene glycol butyl ether acetate	34		112–07–2	EMA.	
Ethylene glycol diacetate	34		111–55–7	EGY.	
Ethylene glycol dibutyl ether	40		112–48–1	EGB.	
<i>Ethylene glycol ethyl ether</i> , see Ethyl glycol monoalkyl ethers			110–80–5	EGE	EGC/EEO.
<i>Ethylene glycol ethyl ether acetate</i> , see 2-Ethoxyethyl acetate		2	111–15–9	EGA	EEA.
<i>Ethylene glycol hexyl ether</i> , see Ethylene glycol monoalkyl ethers			112–25–4	EGH	EGC.
<i>Ethylene glycol isobutyl ether</i> , see Ethylene glycol monoalkyl ethers			224–658–5		EGC (EGG/EGM).
<i>Ethylene glycol isopropyl ether</i> , see Ethylene glycol monoalkyl ethers			109–59–1	EGI	EGC.
<i>Ethylene glycol methyl butyl ether</i> , see Ethylene glycol monoalkyl ethers			13343–98–1	EMB	EGC.
<i>Ethylene glycol methyl ether</i> , see Ethylene glycol monoalkyl ethers			109–86–4	EME	EGC.
Ethylene glycol methyl ether acetate	34		110–49–6	EGT.	
Ethylene glycol monoalkyl ethers	40	2		EGC.	
Including:					
<i>Ethylene glycol butyl ether</i>	40		111–76–2		
<i>Ethylene glycol tert-butyl ether</i>	40		7580–85–0		
<i>Ethylene glycol ethyl ether</i>	40		111–15–9		
<i>Ethylene glycol hexyl ether</i>	40		112–25–4		
<i>Ethylene glycol isobutyl ether</i>	40		224–658–5		
<i>Ethylene glycol isopropyl ether</i>	40		109–59–1		
<i>Ethylene glycol methyl ether</i>	40		109–86–4		
<i>Ethylene glycol methyl butyl ether</i>	40		13343–98–1		
<i>Ethylene glycol propyl ether</i>	40		2807–30–9		
Ethylene glycol phenyl ether	40		122–99–6	EPE.	
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	40		122–99–6/104 68 7	EDX.	
<i>Ethylene glycol propyl ether</i> , see Ethylene glycol monoalkyl ethers			2807–30–9	EGP	EGC/EGI/EGN.
<i>Ethylene glycol n-propyl ether</i> , see Ethylene glycol monoalkyl ethers			2807–30–9	EGN	EGC (EGI/EGP).
Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture	20			EBX.	
Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture	20			ESX.	
Ethylene oxide	0	1	75–21–8	EOX.	
Ethylene oxide/Propylene oxide mixture	16		75–21–8/75–56–9	EPF	EPM.
Ethylene oxide/Propylene oxide mixture with an Ethylene oxide content not more than 30% by mass.	16	3	75–21–8/75–56–9	EPM	EPF.
Ethylene-Propylene copolymer (in liquid mixtures)	31		9010–79–1	EPY.	
Ethylene-Vinyl acetate copolymer (emulsion)	43		24937–78–8	ECV.	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Ethyl ether, see</i> Diethyl ether			60-29-7		EET.
Ethyl-3-ethoxypropionate	34		763-69-9	EED.	
2-Ethylhexaldehyde, <i>see</i> Octyl aldehydes			123-05-7	EHA	OAL (OLX).
2-Ethylhexanoic acid, <i>see</i> Octanoic acid (all isomers)			149-57-5	EHO	OAY (OAA).
2-Ethylhexanol, <i>see</i> Octanol			104-76-7	EHX	OCA (OTA).
2-Ethylhexyl acrylate	14		103-11-7	EAI.	
2-Ethylhexylamine	7		104-75-6	EHM.	
Ethyl hexyl phthalate	34		117-81-7	EHE.	
Ethyl hexyl tallate	34		68334-13-4	EHT.	
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8-C10) ester	34		77-99-6	EHD.	
Ethyl lactate	34		97-64-3	ELT.	
Ethylidene norbornene	30	2	16219-75-3	ENB.	
Ethyl methacrylate	14		97-63-2	ETM.	
N-Ethylmethylallylamine	7		18328-90-0	EML.	
Ethyl propionate	34		105-37-3	EPR.	
2-Ethyl-3-propylacrolein	19	2	645-62-5	EPA.	
2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline	9		51219-00-2	EEM.	
o-Ethyl phenol	21		90-00-6	EPL.	
Ethyl toluene	32		25550-14-5	ETE.	
Fatty acid methyl esters	34	3	67762-38-3	FME.	
Fatty acids (C8-C10)	34	3	*124-07-2	FDS.	
Fatty acids (C12+)	34	3	*143-07-7	FDT	FAB/FAD/FAI/FDI.
Fatty acids (saturated, C13+)	34		700041-79-8	FAB	FAD.
Fatty acids (saturated, C14+), <i>see</i> Fatty acids (saturated, C13+)			700041-79-8	FAD	FAB.
Fatty acids (C16+)	34	3	*57-10-3	FDI.	
Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester	34	2, 3		FAE.	
Ferric chloride solution	1		7705-08-0	FCS	FCL.
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution	43	2		FHX	STA.
Ferric nitrate/Nitric acid solution	3	2	7782-61-8	FNN.	
<i>Fish oil, see</i> Oil, edible: Fish		2	8016-13-5		OFS (AFN).
Fish protein concentrate (containing 4% or less formic acid)	4			FPC.	
Fish silage protein concentrate (containing 4% or less formic acid)	4			FSC.	
Fish solubles (<i>water based fish meal extracts</i>)	43			FSO.	
Fluorosilicic acid (20-30%) in water solution	1	3	16961-83-4	FSK	FSJ/FSL/HFS.
Fluorosilicic acid (30% or less)	1		16961-83-4	FSJ	FSK/FSL/HFS.
Formaldehyde (50% or more), Methanol mixtures	19	2	50-00-0	MTM.	
Formaldehyde solutions (37%-50%)	19	2	50-00-0	FMS	FMG/FMR.
Formaldehyde solutions (45% or less)	19	2, 3	50-00-0	FMR	FMG/FMS.
Formamide	10		75-12-7	FAM.	
Formic acid	4	2	64-18-6	FMA	FMB.
Formic acid (85% or less)	4	2	64-18-6	FMB	FMA.
Formic acid (over 85%)	4	2, 3	64-18-6	FMD.	
Formic acid mixture (containing up to 18% Propionic acid and up to 25% Sodium formate).	4	2, 3	64-18-6	FMC	FMA/FMB.
Fructose solution	43		57-48-7	FTS	FRT.
Fumaric adduct of Rosin, water dispersion	43		65997-04-8	FAR.	
<i>Fuming sulfuric (alternately sulphuric) acid, see</i> Oleum		2	8014-95-7		
Furfural	19		98-01-1	FFA.	
Furfuryl alcohol	20	2	98-00-0	FAL.	
<i>Gas oil, cracked, see</i> Oil, misc.: Gas, cracked			64741-62-4		GOC.
Gasoline blending stock, alkylates	33		64741-64-6	GAK.	
Gasoline blending stock, reformates	33		8006-61-9	GRF.	
Gasolines:					
Automotive (containing not more than 4.23 grams lead per gal.)	33		86290-81-5	GAT.	
Aviation (containing not more than 4.86 grams lead per gal.)	33			GAV	AVA.
Casinghead (<i>natural</i>)	33		68425-31-0	GCS.	
Polymer	33		8006-61-9	GPL.	
Straight run	33		68606-11-1	GSR.	
<i>Gasolines: Pyrolysis (containing Benzene), see</i> Pyrolysis gasoline (containing Benzene).			68477-58-7	GPY	PYG.
Glucitol/Glycerol blend propoxylated (containing less than 10% amines)	40	3		GGA.	
Glucitol/Glycerol blend propoxylated (containing 10% or more amines)	40			GGB.	
Glucose solution	43		50-99-7	GLS	DTS.
Glutaraldehyde solutions (50% or less)	19		111-30-8	GTA.	
Glycerine	20	2	56-81-5	GCR.	
Glycerine (83%)/Dioxanedimethanol (17%) mixture	20			GDN	GDM.
<i>Glycerol, see</i> Glycerine		2	56-81-5		GCR.
Glycerol ethoxylated	40		31694-55-0	GXA.	
Glycerol monooleate	20		25496-72-4	GMO.	
Glycerol polyalkoxylate	40		700038-65-9	GPA.	
Glycerol propoxylated	40	3	25791-96-2	GXP.	
Glycerol, propoxylated and ethoxylated	40	3	9082-00-2	GXE.	
Glycerol/Sucrose blend propoxylated and ethoxylated	40	3		GSB.	
Glyceryl triacetate	34		102-76-1	GCT.	
Glycidyl ester of C10 trialkyl acetic acid	34			GLU	GLT.
<i>Glycidyl ester of tertiary carboxylic acid, see</i> Glycidyl ester of C10 trialkyl acetic acid.				GLT	GLU.
<i>Glycidyl ester of tridecyl acetic acid, see</i> Glycidyl ester of C10 trialkyl acetic acid.				GLT	GLU.
<i>Glycidyl ester of Versatic acid, see</i> Glycidyl ester of C10 trialkyl acetic acid.				GLT	GLU.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Glycine, sodium salt solution	7		56-40-6	GSS.	
<i>Glycol diacetate</i> , see Ethylene glycol diacetate			111-55-7		EGY.
Glycol mixture, crude	20		107-21-1	GMC.	
<i>Glycol triacetate</i> , see Glyceryl triacetate			102-76-1		GCT.
Glycolic acid solution (70% or less)	4	3	79-14-1	GLC.	
Glyoxal solution (40% or less)	19	3	107-22-2	GOS.	
Glyoxylic acid solution (50% or less)	4	3	298-12-4	GAC.	
Glyphosate solution (not containing surfactant)	7		1071-83-6	GIO	RUP.
<i>Grape Seed Oil</i> , see Oil, edible: Grape seed			8024-22-4		
<i>Groundnut oil</i> , see Oil, edible: Groundnut			8002-03-7		OGN (VEO).
<i>Hazelnut oil</i> , see Oil, edible: Hazelnut			84012-21-5		OHN (VEO).
<i>Heptadecane (all isomers)</i> , see n-Alkanes (C10+) (all isomers)			629-78-7		ALV (ALJ).
<i>Heptane (all isomers)</i> , see Alkanes (C6-C9)			142-82-5	HMX	ALK(HPI/HPT).
n-Heptanoic acid	4		111-14-8	HEN	HEP.
Heptanol (all isomers)	20	3	111-70-6	HTX	HTN.
Heptene (all isomers)	30	2, 3	592-76-7	HPX	THE.
Heptyl acetate	34		112-06-1	HPE.	
<i>Heptylbenzenes</i> , see Alkyl (C5-C8) benzenes			1078-71-3		AKD.
<i>Herbicide (C15-H22-NO2-Cl)</i> , see Metolachlor			51218-45-2		MCO.
<i>Hexadecanol (Cetyl alcohol)</i> , see Alcohols (C13+)			36653-82-4		ALY (ASY/AYL).
1-Hexadecylnaphthalene/1,4-bis-(Hexadecyl)naphthalene mixture	32		* 56388-47-7	HNH	HNI.
1-n-Hexadecylnaphthalene (90%)/1,4-di-n-(Hexadecyl)naphthalene (10%)	32		* 56388-47-7	HNI	HNH.
<i>Hexaethylene glycol</i> , see Polyethylene glycol			2615-15-8	HMG	PEG.
1,3,5-Hexahydrotriethanol-1,3,5-triazine solution	9			HES.	
Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	9			HET.	
Hexamethylene diisocyanate	12		822-06-0	HMS	HDI.
Hexamethylene glycol	20		629-11-8	HMG	HXG.
Hexamethylenediamine (molten)	7	3	124-09-4	HME	HMD/HMC.
Hexamethylenediamine adipate (50% in water)	43		15511-81-6	HAN	HAN.
Hexamethylenediamine adipate solution	43		15511-81-6	HAN	HAM.
Hexamethylenediamine solution	7		124-09-4	HMC	HMD/HME.
Hexamethyleneimine	7		111-49-9	HMI.	
Hexamethylenetetramine solutions	7		100-97-0	HTS	HMT.
<i>Hexane (all isomers)</i> , see Alkanes (C6-C9)		2	110-54-3	HXS	ALK (IHA/HXA).
1,6-Hexanediol, distillation overheads	4	2, 3	629-11-8	HDO.	
Hexanoic acid	4		142-62-1	HXO.	
Hexanol	20		111-27-3	HXM	HEW/HEZ/HXN.
Hexene (all isomers)	30	2, 3	592-41-6	HEX	HXE/HXT/HXU/ HXV/MPN/MTN.
Hexyl acetate	34		142-92-7	HAE.	
<i>Hexylbenzenes</i> , see Alkyl (C5-C8) benzenes			1077-16-3		AKD.
<i>Hexylene glycol</i> , see Hexamethylene glycol			107-41-5	HXG	HMG.
<i>Hog grease</i> , see Lard			61789-99-9		LRD.
Hydrochloric acid	1		7647-01-0	HCL.	
<i>Hydrofluorosilicic acid (25% or less)</i> , see Fluorosilicic acid (30% or less)			16961-83-4		FSJ(FSK/FSL/ HFS).
bis(Hydrogenated tallow alkyl)methyl amines	7		61788-63-4	HTA.	
Hydrogen peroxide solutions (over 8% but not more than 60% by mass)	0	1, 3	7722-84-1	HPN	HPO/HPS.
Hydrogen peroxide solutions (over 60% but not more than 70% by mass)	0	1, 3	7722-84-1	HPS	HPN/HPO.
Hydrogenated starch hydrolysate	0	1, 3	68425-17-2	HSH.	
2-Hydroxyethyl acrylate	14	2	818-61-1	HAI.	
N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution	43		207386-87-6	HET.	
N,N-bis(2-Hydroxyethyl) oleamide	10		93-83-4	HOO.	
2-Hydroxy-4-(methylthio)butanoic acid	4		583-91-5	HBA.	
<i>Hydroxyl terminated polybutadiene</i> , see Polybutadiene, hydroxyl terminated.			69102-90-5		PHT.
alpha-Hydro-omega-hydroxytetradeca(oxytetramethylene)	40			HTO	PYS/PYT.
<i>Illipe oil</i> , see Oil, edible: Illipe			68956-68-3		ILO (VEO).
Isoamyl alcohol	20	3	123-51-3	IAA	AAI/AAL/AAN/ APM/ASE.
Isobutyl alcohol	20	2, 3	78-83-1	IAL	BAN/BAS/BAT/ BAY.
Isobutyl formate	34	3	542-55-2	BFI	BFN/BFO.
Isobutyl methacrylate	14	3	97-86-9	BMI	BMH/BMN.
Isodecylaldehyde	19		3085-26-5		
Isononylaldehyde (crude)	19		5435-64-3	INC.	
Isophorone	18	2	78-59-1	IPH.	
Isophoronediamine	7		2855-13-2	IPI.	
Isophorone diisocyanate	12		4089-71-9	IPD.	
Isoprene (all isomers)	30		78-79-5	IPR.	
Isoprene (part refined)	30		78-79-5	IPS	IPR/ISC.
Isoprene concentrate (Shell)	30		78-79-5	ISC.	
Isopropanolamine	8	3	78-96-6	MPA	IPF/PAX/PLA.
Isopropanolamine solution	8	3	78-96-6	PAI	MPA/PAY/PLA/ PRG.
Isopropyl acetate	34	3	108-21-4	IAC	PAT.
Isopropyl alcohol	20	2, 3	67-63-0	IPA	IPB/PAL.
Isopropylamine	7	3	75-31-0	IPP	IPO/IPQ/PRA.
Isopropylamine (70% or less) solution	7	3	75-31-0	IPQ	IPO/IPP/PRA.
<i>Isopropylbenzene</i> , see Alkyl (C3-C4) benzenes			98-82-8		AKC(CUM/PBY/ PBZ).

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Isopropylcyclohexane	31	3	696-29-7	IPX	
Isopropyl ether	41	3	108-20-3	IPE	PRL/PRN.
<i>Jatropha oil, see Oil, misc.: Jatropha</i>			88-6-7	JTO	JTO.
Jet fuels:				JPO	JPT/JPF/JPV.
JP-4	33		50815-00-4	JPF	
JP-5	33		8008-20-6	JPV	
JP-8	33		8008-20-6	JPE	
Kaolin clay solution	43		1332-58-7	KLC	KLS.
Kaolin slurry	43		1332-58-7	KLS	KLC.
Kerosene	33		8008-20-6	KRS	
Ketone residue	18			KTR	
Kraft black liquor	5		66071-92-9	KBL	KPL.
Kraft pulping liquors (free alkali content 3% or more) (Black, Green, or White).	5		68131-33-9	KPL	KBL.
Lactic acid	0	1, 2	79-33-4	LTA	
Lactonitrile solution (80% or less)	37	3	78-97-7	LNI	
Lard	34		61789-99-9	LRD	OLD.
Latex, ammonia (1% or less)-inhibited	30	3	98-82-8	LTX	
Latex: Carboxylated Styrene-Butadiene copolymer; Styrene-Butadiene rubber.	43	3	98-82-8	LCC	LCB/LSB.
Latex, liquid synthetic	43		98-82-8	LLS	LCB/LCC/LSB.
Lauric acid	34		143-07-7	LRA	
Lauric acid methyl ester/Myristic acid methyl ester mixture	34		111-82-0	LMM	
<i>Lauryl polyglucose, see Alkyl (C12-C14) polyglucoside solution (55% or less).</i>			59122-55-3		AGM/LAP.
<i>Lauryl polyglucose (50% or less), see Alkyl (C12-C14) polyglucoside solution (55% or less).</i>			59122-55-3	LAP	AMG.
Lecithin	34		8002-43-5	LEC	
Lignin liquor	43		9005-53-2	LNL	ALG/CLL/LGA/ LGM/LSL/SHC/ SHP/SHQ/SLP.
Ligninsulfonic (alternately Ligninsulphonic) acid, magnesium salt solution	43	3	9009-75-0	LGM	LGA/LNL/LSL.
<i>Ligninsulfonic (alternately Ligninsulphonic) acid, sodium salt solution, see Lignin liquor or Sodium lignosulfonate (alternately lignosulphonate) solution.</i>			8061-51-6	LGA	LNL or SLG.
<i>d-Limonene, see Dipentene</i>			5989-27-5		DPN.
Linear alkyl (C12-C16) propoxyamine ethoxylate	8		68213-26-3	LPE	
<i>Linseed oil, see Oil, misc.: Linseed</i>			8001-26-1		OLS.
<i>Liquefied Natural Gas, see Methane</i>			74-82-8	LNG	MTH.
Liquid chemical wastes	0	1, 3		LCW	
Liquid Streptomyces solubles	43				
Long-chain alkaryl polyether (C11-C20)	41			LCP	
Long-chain alkaryl sulfonic (alternately sulphonic) acid (C16-C60)	0	1		LCS	
Long-chain alkyl amine	7		61789-79-5	LAA	
Long-chain alkylphenate/Phenol sulfide (alternately sulphide) mixture	21			LPS	
Long-chain alkylphenol (C14-C18)	21			LCA	
Long-chain alkylphenol (C18-C30)	21			LCK	
Long-chain alkyl (C13+) salicylic acid	4		69-72-7	LAS	
Long-chain polyetheramine in alkyl (C2-C4)benzenes	7			LCE	
L-Lysine solution (60% or less)	43	3	25988-63-0	LYS	
Magnesium chloride solution	0	1, 2	7786-30-3	MGL	
Magnesium hydroxide slurry	5		1309-42-8	MHS	
Magnesium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50).	34		* 115254-47-2	MAS	MSE.
Magnesium long-chain alkyl phenate sulfide (alternately sulphide) (C8-C20).	34			MPS	
Magnesium long-chain alkyl salicylate (C11+)	34			MLS	
Magnesium nitrate solution (66.7%)	43		13446	MGP	MGN/MGO.
<i>Magnesium nonyl phenol sulfide (alternately sulphide), see Magnesium long-chain alkyl phenate sulfide (alternately sulphide) (C8-C20).</i>					MPS.
<i>Magnesium sulfonate (alternately sulphonate), see Magnesium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50).</i>			71786-47-5	MSE	MAS.
Maleic anhydride	11		108-31-6	MLA	
Maleic anhydride/sodium allylsulphonate copolymer solution	11				PHN (CFO/CRL/ CRO/CRS/ CSO).
Maltitol solution	0	1, 3	585-88-6	MTI	
<i>Mango kernel oil, see Oil, edible: Mango kernel</i>			90063-86-8		MKO (VEO).
Mercaptobenzothiazol, sodium salt solution	5		149-30-4	SMB	MBT.
2-Mercaptobenzothiazol (in liquid mixture)	5		149-30-4	BTM	SMD.
Mesityl oxide	18	2	141-79-7	MSO	
Metam sodium solution	7		137-42-8	MSS	SMD.
Methacrylic acid	4		79-41-4	MAD	
Methacrylic acid-Alkoxypoly(alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less).	20	3	79-41-4	MAQ	
Methacrylic resin in ethylene dichloride	14			MRD	
Methacrylonitrile	15	2	126-98-7	MET	
Methane	31		74-82-8	MTH	LNG.
3-Methoxy-1-butanol	20		2517-43-3	MTX	
3-Methoxybutyl acetate	34		4435-53-4	MOA	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide, <i>see</i> Metolachlor.	34		51218-45		MCO.
1-Methoxy-2-propyl acetate	34		108-65-6	MXP.	
<i>Methoxy triglycol, see</i> Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether			112-35-6	MTG	PAG (TGY).
Methyl acetate	34		79-20-9	MTT.	
Methyl acetoacetate	34		105-45-3	MAE.	
Methyl acetylene/Propadiene mixture	30		74-99-7	MAP.	
Methyl acrylate	14		96-33-3	MAM.	
Methyl alcohol	20	2	67-56-1	MAL.	
Methylamine solutions (42% or less)	7	3	74-89-5	MSZ.	
Methyl amyl acetate	34		7789-99-3	MAC.	
Methyl amyl alcohol	20		108-11-2	MAA	MIC.
Methyl amyl ketone	18		110-43-0	MAK.	
N-Methylaniline	9	3	100-61-8	MAN.	
alpha-Methylbenzyl alcohol with Acetophenone (15% or less)	20	3	98-85-1	MBA.	
Methyl bromide	36		74-83-9	MTB.	
<i>Methyl butanol, see the</i> Amyl alcohols			71-41-0		AAI/AAL/AAN/ APM/ASE/IAA.
<i>Methyl butenes, see</i> Pentene (all isomers)			109-67-1		PTX (AMW/AMZ/ PTE).
Methyl butenol	20		137-32-6	MBL.	
Methyl tert-butyl ether	41	2	1634-04-4	MBE.	
Methyl butyl ketone	18	2	591-78-6	MBB	MBK/MIK.
Methyl 3-(3,5 di-tert-butyl-4-hydroxyphenyl) propionate crude melt	20		6386-38-5	MYP.	
Methylbutynol	20		137-32-6	MBY	MHB.
3-Methyl butyraldehyde	19		590-86-3	MBR.	
Methyl butyrate	34		623-42-7	MBU.	
Methyl chloride	36		74-87-3	MTC.	
Methylcyclohexane	31		591-47-9	MCY.	
Methylcyclohexanemethanol (crude)	20		34885-03-5	MYH.	
Methylcyclopentadiene dimer	30		26472-00-4	MCK.	
Methylcyclopentadienyl manganese tricarbonyl	0	1, 3	12108-13-3	MCT	MCW.
Methylcyclopentadienyl manganese tricarbonyl (60-70%) in mineral oil	0	1	12108-13-3	MCW	MCT.
Methyl diethanolamine	8		105-59-9	MDE	MAB.
Methyl ethyl ketone	18	2	78-93-3	MEK.	
2-Methyl-6-ethyl aniline	9		24549-06-2	MEN.	
Methyl formate	34		107-31-3	MFM.	
N-Methylglucamine solution (70% or less)	43	3	6284-40-8	MGC.	
2-Methylglutaronitrile	37		4553-62-2	MLN	MGN.
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)	37	3		MGE	MLN.
Methyl heptyl ketone	18		821-55-6	MHK.	
2-Methyl-2-hydroxy-3-butyne	20		115-19-5	MHB	MBY.
<i>Methyl isoamyl ketone, see</i> Methyl amyl ketone			110-12-0	MAJ	MAK.
<i>Methyl isobutyl carbinol, see</i> Methyl amyl alcohol			108-11-2	MIC	MAA.
Methyl isobutyl ketone	18		108-10-1	MIK	MBB/MBK.
Methyl methacrylate	14		80-62-6	MMM.	
Methylene bridged isobutylene phenols	21		68610-06-0	MBP.	
<i>Methylene chloride, see</i> Dichloromethane			75-09-2		DCM.
3-Methyl-3-methoxybutanol	20		56539-66-3	MXB.	
2-Methyl-5-ethyl pyridine	9		104-90-5	MEP.	
3-Methyl-3-methoxybutyl acetate	34		103429-90-9	MMB.	
Methyl naphthalene (molten)	32	3	90-12-0	MNA.	
Methylolurea	19		1000-82-4	MUS.	
<i>2-Methyl pentane, see</i> Hexane (all isomers)			107-83-5		HXS (ALK/HXA/ IHA/NHX).
2-Methyl-1,5-pentanediamine	7		15520-10-2	MPM.	
<i>2-Methyl-1-pentene, see</i> Hexene (all isomers)			763-29-1	MPN	HEX (HXE/HXT/ HXU/HXV/ MTN).
<i>4-Methyl-1-pentene, see</i> Hexene (all isomers)			691-37-2	MTN	HEX (HXE/HXT/ HXU/HXV/ MPN).
<i>Methyl tert-pentyl ether, see</i> tert-Amyl methyl ether			994-05-8		AYE.
2-Methyl-1,3-propanediol	20		78-26-2	MDL.	
Methyl propyl ketone	18		107-87-9	MKE.	
2-Methyl-5-ethylpyridine	9		104-90-5	MEP.	
<i>Methylpyridine, see the</i> Methylpyridines				MPQ	MPE/MPF/MPR.
2-Methylpyridine	9	3	109-06-8	MPR	MPE/MPF/MPQ.
3-Methylpyridine	9	3	109-99-6	MPE	MPF/MPQ/MPR.
4-Methylpyridine	9	3	108-89-4	MPF	MPE/MPQ/MPR.
N-Methyl-2-pyrrolidone	9	2	872-50-4	MPY.	
Methyl salicylate	34		119-36-8	MES.	
alpha-Methylstyrene	30		98-83-9	MSR.	
3-(Methylthio)propionaldehyde	19		3268-49-3	MTP.	
Metolachlor	34		51218-45-2	MCO.	
Microsilica slurry	43		69012-64-2	MOS.	
Milk	43		8049-98-7	MLK.	
Mineral spirits	33		64475-85-0	MNS.	
Mixed C4 Cargoes	30			MIX.	
Molasses	20		68476-78-8	MOL	MON.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Molasses residue (from fermentation)	0	1	94114-07-5	MON	MOL.
Molybdenum polysulfide (alternately polysulphide) long-chain alkyl dithiocarbamide complex.	0	1, 3	1317-33-5	MOP.	
Monochlorodifluoromethane	36		75-45-6	MCF.	
<i>Monoethanolamine, see Ethanolamine</i>			141-43-5	MEA.	
<i>Monoethylamine, see Ethylamine</i>			75-04-7		EAM (EAN/EAO).
<i>Monoisopropanolamine, see Isopropanolamine</i>			78-96-6		MPA (PLA/PLX).
Morpholine	7	2	110-91-8	MPL.	
Motor fuel anti-knock compound (containing lead alkyls)	0	1		MFA.	
<i>MTBE, see Methyl tert-butyl ether</i>			1634-04-4		MBE.
Myrcene	30		123-35-3	MRE.	
Naphtha:					
Aromatic	33		64742-94-5	NAR.	
Coal tar solvent	33		8030-30-6	NCT.	
Heavy	33		64742-94-5	NAG.	
Paraffinic	33		8012-95-1	NPF.	
Petroleum	33		64742-94-5	PTN.	
Solvent	33		64742-94-5	NSV.	
Stoddard solvent	33		8052-41-3	NSS.	
Varnish Makers' and Painters'	33		8032-32-4	NVM.	
Naphthalene (molten)	32	3	91-20-3	NTM.	
Naphthalene crude (molten)	32		91-20-3	NCM	NAC/NCD.
Naphthalene still residue	32	2	91-20-3	NSR.	
Naphthalene sulfonic (alternately sulphonic) acid, sodium salt solution	34		85-47-2	NSB	NSA.
Naphthalene sulfonic (alternately sulphonic) acid-Formaldehyde copolymer, sodium salt solution.	0	1	85-47-2	NFS.	
Naphthenic acid	4		1338-24-5	NTI.	
Naphthenic acid, sodium salt solution	43		61790-13-4	NTS.	
Neodecanoic acid	4		26896-20-8	NEA	DCO/NAT.
Nitrating acid (mixture of Sulfuric (alternately Sulphuric) and Nitric acids)	0	1	7697-37-2	NIA.	
Nitric acid (70% and over)	3	2, 3	7697-37-2	NCE	NAC/NCD.
Nitric acid (less than 70%)	3	2	7697-37-2	NCD	NAC/NCE.
<i>Nitric Acid, fuming, see Nitric acid (70% and over)</i>		1, 2, 3	7697-37-2		NCE.
<i>Nitric Acid, red fuming, see Nitric acid (70% and over)</i>		1, 2, 3	52583-42-3		NCE.
Nitrioltriacetic acid, trisodium salt solution	34	3	139-13-9	NCA.	
Nitrobenzene	42		98-95-3	NTB.	
<i>o-Nitrochlorobenzene, see o-Chloronitrobenzene</i>			88-73-3		CNO (CNP).
Nitroethane	42		79-24-3	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	7727-37-9	NXX.	
Nitrophenol (mixed isomers)	42		88-75-5	NPX	NIP/NPH.
<i>o-Nitrophenol (molten)</i>	0	1, 2	88-75-5	NTP	NIP/NPH/NPX.
Nitropropane (60%)/Nitroethane (40%) mixture	42			NNM	NNL/NNO/NPM/ NPN/NPP/NTE.
1-or 2-Nitropropane	42		108-03-2	NPM	NPN/NPP.
<i>o- or p-Nitrotoluenes</i>	42	3	99-99-0	NIT	NIE/NTR/NTT.
<i>Nonane (all isomers), see Alkanes (C6-C9)</i>			111-84-2	NAX	ALK (NAN).
Nonanoic acid (all isomers) mixture	4		112-05-0	NNA	NAI/NIN.
Nonanoic/Tridecanoic acid mixture	4			NAT	NAI/NIN/NAA.
<i>Non-edible industrial grade palm oil, see Oil, misc.: Palm, non-edible industrial grade.</i>			8002-75-3		OPB.
Nonene (all isomers)	30	2	124-11-8	NOO	NNE/NON/OAM/ OFX/OFY.
Nonyl acetate	34		143-13-5	NAE.	
Nonyl alcohol (all isomers)	20	2	143-08-8	NNS	ALR/DBC/NNI/ NNN.
<i>Nonylbenzene, see Alkyl (C9+) benzenes</i>			1081-77-2		AKB.
Non-noxious Liquid Substance, (12) n.o.s. Cat OS	0	1		NOL.	
Nonyl methacrylate monomer	14		2696-43-7	NMA.	
Nonyl phenol	21		25154-52-3	NNP.	
<i>Nonyl phenol poly(4+)ethoxylate, see Alkyl (C7-C11) phenol poly(4-12) ethoxylate.</i>			9016-45-9	NPE	APN.
<i>Nonyl phenol sulfide (alternately sulphide) (90% or less) solution, see Alkyl (C8-C40) phenol sulfide (alternately sulphide).</i>			34992-00-2		AKS (NPS).
Nonylphenol (48-62%)/Phenol (42-48%)/Dinonylphenol (1-10%) mixture	21			NYL.	
Noxious Liquid Substance, NF, (1) n.o.s. ("trade name" contains "principal components") Cat X.	0	1			
Noxious Liquid Substance, F, (2) n.o.s. ("trade name" contains "principal components") Cat X.	0	1			
Noxious Liquid Substance, NF, (3) n.o.s. ("trade name" contains "principal components") Cat X.	0	1			
Noxious Liquid Substance, F, (4) n.o.s. ("trade name" contains "principal components") Cat X.	0	1			
Noxious Liquid Substance, NF, (5) n.o.s. ("trade name" contains "principal components") Cat Y.	0	1			
Noxious Liquid Substance, F, (6) n.o.s. ("trade name" contains "principal components") Cat Y.	0	1			

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Noxious Liquid Substance, NF, (7) n.o.s. ("trade name" contains "principal components") Cat Y.	0	1			
Noxious Liquid Substance, F, (8) n.o.s. ("trade name" contains "principal components") Cat Y.	0	1			
Noxious Liquid Substance, NF, (9) n.o.s. ("trade name" contains "principal components") Cat Z.	0	1			
Noxious Liquid Substance, F, (10) n.o.s. ("trade name" contains "principal components") Cat Z.	0	1			
Noxious Liquid Substance, (11) n.o.s. ("trade name" contains "principal components") Cat Z.	0	1			
Non-noxious Liquid Substance, (12) n.o.s. ("trade name" contains "principal components") Cat OS.	0	1	.....	NOL.	
<i>Nutmeg butter oil, see Oil, edible: Nutmeg butter</i> .....	.....	.....	.....	.....	ONB (VEO).
<i>1-Octadecene, see the olefin or alpha-olefin entries</i> .....	.....	.....	112-88-9	.....	OAM/OFZ.
<i>1-Octadecanol, see Stearyl alcohol</i> .....	.....	.....	112-92-5	.....	SYL (ALY/ASY).
Octadecenoamide solution	10	.....	3322-62-1	ODD.	
<i>Octadecenol (oleyl alcohol), see Alcohols (C13+)</i> .....	.....	.....	143-28-2	.....	ALY (AYL/ASY/OYL).
Octamethylcyclotetrasiloxane	34	3	556-67-2	OSA.	
<i>Octane (all isomers), see Alkanes (C6-C9)</i> .....	.....	.....	111-65-9	OAX	ALK (IOO/OAN).
Octanoic acid (all isomers)	4	.....	124-07-2	OAY	OAA/EHO.
Octanol (all isomers)	20	2	111-87-5	OCX	EHX/OPA/OTA.
Octene (all isomers)	30	2	111-66-0	OTX	OAM/OFZ/OFY/OFW/OTE.
n-Octyl acetate	34	.....	112-14-1	OAF	OAE.
<i>Octyl alcohol, see Octanol (all isomers)</i> .....	.....	2	111-87-5	.....	OCX (EHX/IOA/OTA).
Octyl aldehydes	19	.....	124-13-0	OAL	EHA/IOC//OLX.
<i>Octylbenzenes, see Alkyl (C5-C8) benzenes</i> .....	.....	.....	2189-60-8	.....	AKD.
Octyl decyl adipate	34	.....	110-29-2	ODA.	
n-Octyl mercaptan	0	.....	111-88-6	OME.	
<i>Octyl nitrates (all isomers), see Alkyl (C7-C9) nitrates</i> .....	.....	2	629-39-0	ONE	AKN.
Octyl phenol	21	.....	27193-28-8	OPH.	
<i>Octyl phthalate, see Dioctyl phthalate</i> .....	.....	.....	117-84-0	.....	DAH (DIE/DIO/DLK/DOP).
Offshore contaminated bulk liquid P	0	.....	.....	OBP.	
Offshore contaminated bulk liquid S	0	.....	.....	OBS.	
Oil, edible:					
Beechnut	34	.....	481-39-0	OBN	VEO.
Castor	34	.....	8001-79-4	OCA	VEO.
Cocoa butter	34	.....	8002-31-1	OCB	VEO.
Coconut	34	2	8001-31-8	OCC	VEO.
Cod liver	34	.....	8001-69-2	OCL	AFN.
Corn	34	.....	8001-30-7	OCO	VEO.
Cottonseed	34	.....	8001-29-4	OCS	VEO.
Fish	34	2	8016-13-5	OFS	AFN.
Grape seed	34	.....	8024-22-4	.	
Groundnut	34	.....	8002-03-7	OGN	VEO.
Hazelnut	34	.....	185630-72-2	OHN	VEO.
Illipe	34	.....	91770-65-9	ILO	VEO.
Lard	34	.....	61789-99-9	OLD	AFN.
<i>Maize, see Oil, edible: Corn</i> .....	.....	.....	8001-30-7	.....	OCO (VEO).
Mango kernel	34	3	90063-86-8	MKO.	
Nutmeg butter	34	.....	8008-45-5	ONB	VEO.
Olive	34	.....	8001-25-0	OOL	VEO.
Palm	34	2, 3	8002-75-3	OPM	VEO.
Palm kernel	34	.....	8023-79-8	OPO	VEO.
Palm kernel olein	34	.....	93334-39-5	PKO	VEO.
Palm kernel stearin	34	.....	91079-14-0	PKS	VEO.
Palm mid fraction	34	.....	91079-14-0	PFM	VEO.
Palm olein	34	.....	93334-39-5	PON	VEO.
Palm stearin	34	.....	91079-14-0	PMS	VEO.
Peanut	34	.....	8002-03-7	OPN	VEO.
Poppy	34	.....	8002-11-7	OPY	VEO.
Poppy seed	34	.....	8002-11-7	OPS	VEO.
Raisin seed	34	.....	8024-22-4	ORA	VEO.
Rapeseed	34	.....	8002-13-9	ORP	VEO.
Rapeseed (low erucic acid containing less than 4% free fatty acids) ..	34	3	8002-13-9	ORO	ORP/VEO.
Rice bran	34	.....	68553-81-1	ORB	VEO.
Safflower	34	.....	8001-23-8	OSF	VEO.
Salad	34	.....	9083-41-4	OSL	VEO.
Sesame	34	.....	8008-74-0	OSS	VEO.
Shea butter	34	.....	194043-92-0	OSH	VEO.
Soyabean	34	2	8001-22-7	OSB	VEO.
<i>Sunflower, see Oil, edible: Sunflower seed</i> .....	.....	.....	8001-21-6	.....	OSN (VEO).
Sunflower seed	34	.....	8001-21-6	OSN	VEO.
Tucum	34	.....	356065-49-1	OTC	VEO.
Vegetable	34	.....	9083-41-4	OVG	VEO.
Walnut	34	.....	8024-09-7	OWN	VEO.
Oil, fuel:					

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
No. 1	33		8008-20-6	OON.	
No. 1-D	33			OOD.	
No. 2	33		68476-30-2	OTW.	
No. 2-D	33			OTD.	
No. 4	33		68553-00-4	OFR.	
No. 5	33		70892-11-4	OFV.	
No. 6	33		68553-00-4	OSX.	
Oil, misc.:					
Acid mixture from soyabean, corn (maize) and sunflower oil refining ..	34			AOM.	
Aliphatic	33		8052-41-3	OML.	
Animal	34		68991-19-5	OMA	AFN.
Aromatic	33		6472-95-6	OMR.	
Camelina	34		68956-68-3	OCl.	
Cashew nut shell (untreated)	34		8007-24-7	OCN.	
Clarified	33		64741-62-4	OCF.	
Coal	33		8008-2-06	OMC.	
Coconut fatty acid	34	2	61788-47-4	CFA.	
Coconut, fatty acid methyl ester	34		61788-59-8	OCM.	
Cotton seed oil, fatty acid	34		8001-29-4	CFY.	
Crude	33		8002-05-9	OFA.	
Diesel	33		68334-30-5	ODS.	
Disulfide (alternately Disulphide)	0	1	624-92-0	ODI.	
Gas, cracked	33		8006-61-9	GOC.	
Gas, high pour	33		8006-61-9	OGP.	
Gas, low pour	33		8006-61-9	OGL.	
Gas, low sulfur (alternately sulphur)	33		8006-61-9	OGS.	
Heartcut distillate	33		68131-77-1	OHD.	
Jatropha	34	3	88-6-7	JTO.	
Lanolin	34		8006-54-0	OLL	AFN.
Linseed	33		8001-26-1	OLS.	
Lubricating	33	2	93572-43-1	OLB.	
Mineral	33		8042-47-5	OMN.	
Mineral seal	33		64742-46-7	OMS.	
Motor	33			OMT.	
Neatsfoot	33		8002-64-0	ONF	AFN.
Oiticica	34		8016-35-1	OOI.	
Palm acid	34		8002-75-3	PLM.	
Palm fatty acid distillate	34		68440-15-3	PFD.	
Palm oil, fatty acid methyl ester	34		91051-34-2	OPE.	
Palm kernel acid	34		101403-98	OPK.	
Palm kernel fatty acid distillate	34		68440-15-3	PNG.	
Palm, non-edible industrial grade	34		8002-75-3	OPB.	
Penetrating	33		64742-95-6	OPT.	
Perilla	34		68132-21-8	OPR.	
Pilchard	34		8016-13-5	OPL	AFN.
Pine	33		8002-09-3	OPI	PNL.
Rapeseed fatty acid methyl esters	34	3	73891-99-3	ORP.	
Residual	33		68476-33-5	ORL.	
Resin, distilled	30	3	8016-37-3	ORR.	
Road	33		8052-42-4	ORD.	
Rosin	33		8002-16-2	ORN.	
Seal	34		64742-46-7	OSE.	
Soapstock	34		68952-95-4	OIS.	
Soyabean (epoxidized)	34		8013-07-8		OSC/EVO.
Soyabean fatty acid methyl ester	34		68919-53-9		OST.
Spindle	33		64742-54-7	OSD.	
Tall	34		8002-26-4	OTL	OTI/OTJ.
Tall, crude	34	2	8002-26-4	OTI	OTJ/OTL.
Tall, distilled	34	2	8002-26-4	OTJ	OTI/OTL.
Tall, fatty acid	34	2	61790-12-3	OTT.	
Tall fatty acid (resin acids less than 20%)	34	2	61790-12-3	OTK	OTT.
Tall pitch	34		08016-81-7	OTP.	
Transformer	33		64742-53-6	OTF.	
Tung	34		8001-20-5	OTG.	
Turbine	33			OTB.	
Used cooking oil	34			OUC	VEO.
Used cooking oil (triglycerides, C16-C18, and C18 unsaturated)	34			OUT	VEO.
Vacuum gas oil	33		64741-57-7	OVC.	
<i>Oleamide solution, see Octadecenoamide solution</i>			301-02-0		ODD.
Olefin-Alkyl ester copolymer (molecular weight 2000+)	30			OCP.	
Olefin mixture (C7-C9) C8 rich, stabilized	30	3	25339-56-4	OFC	OFW/OFY/OFX.
Olefin mixtures (C5-C7)	30	3	25264-93-1	OFY	OAM/OFC/OFW/ OFX/OFZ.
Olefin mixtures (C5-C15)	30	3	25264-93-1	OFY	OAM/OFC/OFW/ OFX/OFZ.
Olefins (C13+, all isomers)	30		85535-87-1	OFZ	OAM/OFW.
alpha-Olefins (C6-C18) mixtures	30		592-41-6	OAM	OFC/OFW/OFX/ OFY/OFZ.
Oleic acid	4		112-80-1	OLA.	
Oleum	0	1, 2	8014-95-7	OLM	SAC/SFX.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Oleyl alcohol, see Alcohols (C13+)</i>			143–28–2	OYL	ALY (ASY).
Oleylamine	7		112–90–3	OLY.	
<i>Olive oil, see Oil, edible: Olive</i>			8001–25–0		OOL (VEO).
Orange juice (concentrated)	0	1, 3	68514–75–0	OJC	OJN.
Orange juice (not concentrated)	0	1, 3	68514–75–0	OJN	OJC.
Organomolybdenum amide	10		445409–27–8	OGA.	
<i>ORIMULSION, see Asphalt emulsion</i>					ASQ.
Oxyalkylated alkyl phenol formaldehyde	33		9003–35–4	OPF.	
Oxygenated aliphatic hydrocarbon mixture	0	1, 3		OAH.	
<i>Palm acid oil, see Oil, misc.: Palm acid</i>			68440–15–3		PLM.
<i>Palm fatty acid distillate, see Oil, misc.: Palm fatty acid distillate</i>					PFD.
<i>Palm kernel acid oil, see Oil, misc.: Palm kernel acid</i>			101403–98		PNO.
<i>Palm kernel acid oil, methyl ester, see Oil, misc.: Palm kernel acid, methyl ester.</i>					PNF.
<i>Palm kernel oil, see Oil, edible: Palm kernel</i>			8023–79–8		OPO (VEO).
<i>Palm kernel oil fatty acid distillate, see Oil, misc.: Palm kernel fatty acid distillate.</i>					PNG.
<i>Palm kernel olein, see Oil, edible: Palm kernel olein</i>			93334–39–5		PKO (VEO).
<i>Palm kernel stearin, see Oil, edible: Palm kernel stearin</i>					PKS (VEO).
<i>Palm mid fraction, see Oil, edible: Palm mid fraction</i>			91079–14–0		PFM (VEO).
<i>Palm oil, see Oil, edible: Palm</i>			8002–75–3	OPM	VEO/OPE.
<i>Palm oil fatty acid methyl ester, see Oil, misc.: Palm fatty acid methyl ester.</i>					OPE.
<i>Palm olein, see Oil, edible: Palm olein</i>			93334–39–5		PON (VEO).
<i>Palm stearin, see Oil, edible: Palm stearin</i>			91079–14–0		PMS (VEO).
Parachlorobenzotrifluoride	32		98–56–6	PBF.	
<i>Paraffin wax, see Waxes: Paraffin</i>			8002–74–2		WPF.
<i>n-Paraffins (C10-C20), see n-Alkanes (C10+) all isomers</i>				PFN	ALJ.
Paraldehyde	19		123–63–7	PDH.	
Paraldehyde-Ammonia reaction product	9			PRB.	
<i>Peanut, see Oil, edible: Peanut</i>			8002–03–7		OPN (VEO).
Pentachloroethane	36		76–01–7	PCE.	
Pentacosa (oxypropane-2,3-diyl)s	20		923–61–5	POY.	
<i>Pentadecanol, see Alcohols (C13+)</i>			629–76–5	PDC	ALY.
1,3-Pentadiene	30		1574–41–0	PDE	PDN.
1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures	30	3	1574–41–0	PMM.	
<i>Pentaethylene glycol, see Polyethylene glycols</i>			4792–15–8		PEG.
<i>Pentaethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i>			23778–52–1		PAG.
Pentaethylenhexamine	7		4067–16–7	PEN.	
Pentaethylenhexamine/Tetraethylenepentamine mixture	7			PEP.	
Pentane (all isomers)	31		109–66–0	PTY	IPT/PTA.
Pentanoic acid	4		109–52–4	POC.	
<i>n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture</i>	4			POJ	POC.
<i>Pentasodium salt of Diethylenetriaminepentaacetic acid solution, see Diethylenetriaminepentaacetic acid, pentasodium salt solution.</i>			140–01–2		DYS.
Pentene (all isomers)	30		109–67–1	PTX	PTE.
Pentyl aldehyde	19		110–62–3	PYL.	
<i>n-Pentyl propionate</i>	34		624–54–4	PPE.	
Perchloroethylene	36	2	127–18–4	PER	TTE.
Petrolatum	33		8009–03–8	PTL.	
Phenol	21	2	108–95–2	PHN	PNS.
Phenol solutions (2% or less)	43		108–95–2	PNS	PHN.
1-Phenyl-1-xylyl ethane	32		6196–96–8	PXE.	
Phosphate esters	34		68130–47–2	PZE.	
Phosphate esters, alkyl (C12-C14) amine	7			PEA.	
[[[(Phosphonomethyl-)imino]bis[ethylenenitro]bis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less).	3			PES.	
Phosphoric acid	1	2	7664–38–2	PAC.	
Phosphorus, yellow or white	0	1	7723–14–0	PPW	PPB/PPR.
Phosphosulfurized (alternately Phosphosulphurized) bicycle terpene	0	1		PBT.	
Phthalate based polyester polyol	0	1, 2	32472–85–8	PBE.	
Phthalic anhydride (molten)	11		85–44–9	PAN.	
<i>PIB, see Poly(4+)isobutylene (molecular weight >224).</i>			9003–27–4		
alpha-Pinene	30		7785–26–4	PIO	PIB/PIN.
beta-Pinene	30		127–91	PIP	PIN/PIO.
<i>Pine oil, see Oil, misc.: Pine</i>			8002–09–3	PNL	OPI.
Piperazine (70% or less)	7	3	110–85–0	PIZ	PPB/PPZ.
Piperazine (crude)	7		110–85–0	PZC	PPZ/PIZ.
Piperazine, 68% solution	7		110–85–0		
Polyacrylic acid solution (40% or less)	43		9003–01–4	PYA.	
Polyalkenyl succinic anhydride amine	7		108–30–5	PSN.	
Polyalkyl acrylate	14		9003–21–8	PAY.	
Polyalkyl (C18-C22) acrylate in Xylene	14			PIX.	
Polyalkylalkenaminesuccinimide, molybdenum oxysulfide (alternately oxysulphide).	0	3		PSO.	
Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures	40		9038–95–3	PPX.	
<i>Polyalkylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i>				PGB	PAG.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	40	2		PAG.	
<i>Including:</i>					
Diethylene glycol butyl ether	40		112-34-5		
Diethylene glycol ethyl ether	40		111-90-0		
Diethylene glycol n-hexyl ether	40		112-59-4		
Diethylene glycol methyl ether	40		111-77-3		
Diethylene glycol propyl ether	40		6881-94-3		
Dipropylene glycol butyl ether	40		112-34-5		
Dipropylene glycol methyl ether	40		34590-94-8		
Polyalkylene glycol butyl ether	40		111-76-2		
Polyethylene glycol monoalkyl ether	40		111-80-5		
Polypropylene glycol methyl ether	40		34590-94-8		
Tetraethylene glycol methyl ether	40		23783-42-8		
Triethylene glycol butyl ether	40		143-22-6		
Triethylene glycol ethyl ether	40		112-50-5		
Triethylene glycol methyl ether	40		112-35-6		
Tripropylene glycol methyl ether	40		25498-49-1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	34			PAF.	
<i>Including:</i>					
Diethylene glycol butyl ether acetate	34		124-17-4		
Diethylene glycol ethyl ether acetate	34		112-15-2		
Diethylene glycol methyl ether acetate	34		110-49-6		
Polyalkylene oxide polyol	20			PAO.	
Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures	40			PPX.	
Polyalkylene oxide polyol	20			PAO.	
Polyalkyl (C10-C20) methacrylate	14		221-657-1	PMT	PYY.
Polyalkyl methacrylate in mineral oil	14			PYY	PMT.
Polyalkyl (C10-C18) methacrylate/Ethylene-propylene copolymer mixture	14			PEM.	
Polyalpha olefins	31		115-07-1	PYO.	
Polyaluminum (alternately Polyaluminium) chloride solution	1		1327-41-9	PLS.	
Polybutadiene, hydroxyl terminated	20		69102-90-5	PHT.	
Polybutene	33		9003-29-6	PLB.	
Polybutenyl succinimide	10		84605-20-9	PBS.	
Polycarboxylic ester (C9+), see Ditridecyl adipate			16958-92-2		DTY.
Poly(2+)cyclic aromatics	32		91-20-3	PCA.	
Polydimethylsiloxane, see Dimethylpolysiloxane			9016-00-6		DMP.
Polyether, borated	41			PED.	
Polyether (molecular weight 1350+)	41			PYR.	
Polyether polyols	41		25214-63-5	PEO.	
Polyethylene glycol	40		25322-68-3	PEG.	
Polyethylene glycol dimethyl ether	40		24991-55-7	PEF.	
Poly(ethylene glycol) methylbutenyl ether (molecular weight >1000)	40			PBN.	
Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.			111-77-3	PEE	PAG.
Polyethylene polyamines	7	2	109-89-7	PEB	PEY.
Polyethylene polyamines (more than 50% C5-C20 Paraffin oil)	7	2, 3		PEY	PEB.
Polyferric sulfate (alternately sulphate) solution	34		51434-22-1	PSS.	
Polyglycerine/Sodium salts solution (containing less than 3% Sodium hydroxide).	20	2		PGT	PGS.
Polyglycerol	20		25618-55-7	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.
(Polyisobutene) amino products in aliphatic hydrocarbons	7	3			
Polyisobutenyl anhydride adduct	11			PBA.	
Polyisobutenyl succinimide	10		84605-20-9	PIS.	
Poly(4+)isobutylene (molecular weight >224)	30	3	9003-27-4	PIL.	
Polyisobutylene (molecular weight ≤224)	30	3	9003-27-4	PIL.	
Polyisobutylene succinic anhydride	11		67762-77-0	PYS.	
Polymerized esters	34			PYM.	
Polymethylene polyphenyl isocyanate	12	2	9016-87-9	PPI.	
Polymethylsiloxane	34		9006-65-9	PMX.	
Polyolefin (molecular weight 300+)	33			PMW	PLF.
Polyolefin amide alkeneamine (C17+)	33			POH	POD.
Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkenamine (C17+).				POD	POH.
Polyolefin amide alkeneamine borate (C28-C250)	33		134758-95-5	PAB.	
Polyolefin amide alkeneamine in mineral oil	33			PLK.	
Polyolefin amide alkeneamine/Molybdenum oxysulfide (alternately oxysulphide) mixture.	7			PMO.	
Polyolefin amide alkeneamine polyol	20			PAP.	
Polyolefin amine (C17+)	7		98761-78-5	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 (molecular weight 2000+)	34			PAE.	
Polyolefin anhydride	11		9006-26-2	PAR.	
Polyolefin ester (C28-C250)	34			POS.	
Polyolefin in mineral oil	30			PLF	PMW.
Polyolefin phenolic amine (C28-C250)	9			PPH.	
Polyolefin phosphorosulfide (alternately phosphorosulphide), barium derivative (C28-C250).	34			PPS.	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Poly (oxyalkylene) alkenyl ether (molecular weight >1000)	41	3	9005-00-9	PXY.	
Polyoxybutylene alcohol	41		9002-92-0	PXA.	
Poly(20)oxyethylene sorbitan monooleate	34		9005-65-6	PSM.	
Polyoxypropylenediamine (molecular weight 2000)	7			PYD.	
Poly(5+) propylene	30		9003-07-0	PLQ	PLP.
Polypropylene glycol	40	2	25322-69-4	PGC.	
Polypropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.			107-98-2	PGM	PAG.
Polysiloxane	34		63148-53-8	PSX.	
Polysiloxane/White spirit, low (15-20%) aromatic	34			PWS.	
Poly(tetramethylene ether) glycols (molecular weight 950-1050), see alpha-hydro-omega-Hydroxytetradeca(oxytetramethylene).			25190-06-1	PYU	HTO.
Polytetramethylene ether glycol	40		25190-06-1	PYT	HTO/PYU/PYS.
Poppy seed, see Oil, edible: Poppy seed			8002-11-7		OPS (VEO).
Poppy, see Oil, edible: Poppy					OPY (VEO).
Potassium chloride solution	43		7447-40-7	PCU	PCD/PSD.
Potassium chloride solution (10% or more)	43		7447-40-7	PCS	PCD/PCU.
Potassium chloride solution (less than 26%)	43		7447-40-7	PSD	CLM/DRL/PCS/PCU.
Potassium formate solutions	34		590-29-4	PFR.	
Potassium hydroxide solution, see Caustic potash solution		2	1310-58-3		CPS/PTH.
Potassium oleate	34		143-18-0	POE.	
Potassium polysulfide (alternately polysulphide)/Potassium thiosulfide (alternately thiosulphide) solution (41% or less).	0	1		PYP	PSF/PTF.
Potassium salt of polyolefin acid	34			PSP.	
Potassium thiosulfate (alternately thiosulphate) (50% or less)	43		10294-66-3	PTF.	
Propane	31		74-98-6	PRP	LPG.
iso-Propanolamine, see Isopropanolamine			78-96-6		MPA (PAX/PLA).
n-Propanolamine	8		107-10-8	PLA	MPA/PAX.
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution.	0	1, 3		PLN.	
Propionaldehyde	19		123-38-6	PAD.	
beta-Propiolactone	18	3	57-57-8	PLT.	
Propionic acid	4		79-09-4	PNA.	
Propionic anhydride	11		123-62-6	PAH.	
Propionitrile	37		107-12-0	PCN.	
n-Propoxypropanol, see Propylene glycol monoalkyl ether			1569-01-3	PXP	PGE.
n-Propyl acetate	34		109-60-4	PAT	IAC.
n-Propyl alcohol	20	2	71-23-8	PAL	IPA.
n-Propyl chloride	36		540-54-5	PRC.	
Propyl ether	41		557-17-5		IPE/PRE.
n-Propylamine	7		107-10-8	PRA	IPO/IPP/IPQ.
iso-Propylamine solution, see Isopropylamine (70% or less) solution			75-31-0		IPQ (IPO/IPP/PRA).
Propylbenzenes (all isomers), see Alkyl (C3-C4) benzenes			103-65-1	PBY	AKC (CUM/PBZ).
iso-Propyl cyclohexane, see Isopropylcyclohexane			696-29-7		IPX.
Propylene	30		115-07-1	PPL.	
Propylene-Butylene copolymer	30		29160-13-2	PBP.	
Propylene carbonate	34		108-32-7	PLC.	
Propylene dimer	30		26824-72-2	PDR.	
Propylene glycol	20	2	57-55-6	PPG.	
Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether			5131-66-8	PGD	PGE.
Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether			1569-02-4	PGY	PGE.
Propylene glycol methyl ether, see Propylene glycol monoalkyl ether		2	107-98-2	PME	PGE.
Propylene glycol methyl ether acetate	34	2	108-65-6	PGN.	
Propylene glycol monoalkyl ether	40			PGE.	
Including:					
n-Propoxypropanol	40		30136-13-1		
Propylene glycol n-butyl ether	40		5131-66-8		
Propylene glycol ethyl ether	40		1569-02-4		
Propylene glycol methyl ether	40		107-98-2		
Propylene glycol propyl ether	40		1569-01-3		
Propylene glycol phenyl ether	40		770-35-4	PGP.	
Propylene glycol propyl ether, see Propylene glycol monoalkyl ether			1569-01-3		PGE.
Propylene oxide	16		75-56-9	POX.	
Propylene tetramer	30		6842-15-5	PTT.	
Propylene trimer	30		13987-01-4	PTR.	
Propylene/Propane/MAPP gas mixture	30	2		PPM.	
Pseudocumene, see Trimethylbenzene (all isomers)			95-63-6		TMB/TMD/TME/TRE.
Pyridine	9		110-86-1	PRD.	
Pyridine bases, see Paraldehyde-Ammonia reaction product					PRB.
Pyrolysis gasoline (containing Benzene)	32	3	68477-58-7	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).		3	8002-13-9		ORO (VEO).
Rapeseed oil fatty acid methyl esters, see Oil, misc.: Rapeseed fatty acid methyl esters.		3	73891-99-3		RSO.
Rapeseed oil, see Oil, edible: Rapeseed			8002-13-9		ORO (VEO).
Refrigerant gases	0	1		RFG.	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Resin oil, distilled, see Oil, misc.: Resin, distilled</i>		3			ORR (ORS). ORB.
<i>Rice bran oil, see Oil, edible: Rice bran</i>			68553-81-1		
Rosin soap (disproportionated) solution	43		61790-50-9	RSP.	
<i>Rosin, see Oil, misc.: Rosin</i>			8050-09-7		ORN. ABV.
<i>Rum, see Alcoholic beverages, n.o.s.</i>			64-17-5		
<i>Safflower oil, see Oil, edible: Safflower</i>			8001-23-8		OSF (VEO).
Sewage sludge	43			SWS.	
<i>Shea butter, see Oil, edible: Shea butter</i>		3	194043-92-0		OSH (VEO).
Silica slurry	43		69012-64-2	SLC.	
Siloxanes	34		9011-19-2	SLX.	
Sludge, treated	43			SWA.	
Sodium acetate solutions	34		127-09-3	SAN.	
Sodium acetate, Glycol, Water mixture (containing 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 (alternately sulphonates) (60–65% solution).	34			SSU	AKA/AKE.
Sodium aluminate solution	5		11138-49-1	SAV	SAU.
Sodium aluminate solution (45% or less)	5		11138-49-1	SAU	SAV.
Sodium aluminosilicate slurry	34		1344-00-9	SLR.	
Sodium benzoate	34		532-32-1	SBN	SBM.
Sodium bicarbonate solution (less than 10%)	34	3	144-55-8	SBC.	
Sodium borohydride (15% or less)/Sodium hydroxide solution	5			SBX	CSS/SBH/SBI/ SHD.
Sodium bromide solution (less than 50%)	43	3	7647-15-6	SBL	SBR.
Sodium carbonate solution	5		497-19-8	SCE.	
Sodium chlorate solution (50% or less)	0	1, 2	7775-09	SDD	SDC.
Sodium cyanide solution	5		143-33-9	SCO	SCN/SCS.
Sodium dichromate solution (70% or less)	0	1, 2	7789-12-0	SDL	SCR.
<i>Sodium dimethyl naphthalene sulfonate solution, see Dimethyl naphthalene sulfonic (alternately sulphonic) acid, sodium salt solution.</i>			532-02-5		DNS.
Sodium hydrogen sulfide (alternately sulphide) (6% or less)/Sodium carbonate (3% or less) solution.	0	1, 2, 3		SSS	SCE/SHW.
Sodium hydrogen sulfite (alternately sulphite) solution (45% or less)	43		7631-90-5	SHY	SHX.
Sodium hydrosulfide (alternately hydrosulphide)/Ammonium sulfide (alternately sulphide) solution.	5	2		SSA	ASF/ASS.
Sodium hydrosulfide (alternately hydrosulphide) solution (45% or less)	5	2	16721-80-5	SHR.	
<i>Sodium hypochlorite solution, see Caustic soda solution</i>		2	1310-73-2		CSS (SHD).
Sodium hypochlorite solution (15% or less)	5		7681-52-9	SHP	SHC/SHQ.
Sodium hypochlorite solution (20% or less)	5		7681-52-9	SHQ	SHC/SHP.
Sodium lignosulfonate (alternately lignosulphonate) solution	43		8061-51-6	SLG	LNL.
Sodium long-chain alkyl salicylate (C13+)	34		84539-60-6	SLS.	
<i>Sodium-2-mercaptobenzothiazol solution, see Mercaptobenzothiazol, sodium salt solution.</i>			2492-26-4		SMB.
Sodium methoxide (25% in methanol)	0	1	124-41-4	SMO.	
Sodium methylate 21–30% in methanol	0	1, 2, 3	124-41-4	SMT	SMS.
<i>Sodium naphthalene sulfonate (alternately sulphonate) solution, see Naphthalene sulfonic (alternately sulphonic) acid (40% or less), sodium salt solution (40% or less).</i>			532-02-5	SNS	NSA (NSB).
<i>Sodium naphthenate solution, see Naphthenic acid, sodium salt solution</i>			61790-13-4		NTS.
Sodium nitrite solution	5		7632-00-0	SNI	SNT.
<i>Sodium N-methyl dithio carbamate solution, see Metam sodium solution</i>			137-42-8	MSS	SMD.
Sodium petroleum sulfonate (alternately sulphonate)	34		68608-26-4	SPS.	
Sodium poly(4+)acrylate solution	43	2	9003-04-7	SOP	SOO.
Sodium polyacrylate solution	43	2	9003-04-7	SOO	SOP.
<i>Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.</i>			139-89-9	STA	FHX.
Sodium silicate solution	43	2	1344-09-8	SSN	SSC.
Sodium sulfate (alternately sulphate) solution	34	3	7757-82-5	SST	SSO.
Sodium sulfide (alternately sulphide) solution (15% or less)	43		1313-82-2	SDR	SDS.
Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H ₂ S 15 ppm or less).	0	1, 2		SSH	SDS/SHR/SSI/ SSJ.
Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H ₂ S greater than 15 ppm but less than 200 ppm).	0	1, 2		SSI	SDS/SHR/SSH/ SSJ.
Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H ₂ S greater than 200 ppm).	0	1, 2		SSJ	SDS/SHR/SSH/ SSI.
Sodium sulfite (alternately sulphite) solution (25% or less)	43		7757-83-7	SUP	SSF/SUS.
Sodium tartrates/Sodium succinates solution	43			STM.	
Sodium thiocyanate solution (56% or less)	0	1, 2	540-72-7	STS	SCY.
Sorbitol solution	20		50-70-4	SBU	SBT.
<i>Soyabean fatty acid methyl ester, see Oil, misc.: Soyabean fatty acid methyl ester.</i>			67784-80-9		OST.
Soyabean oil (epoxidized)	34		8013-07-8		OSC/EVO.
<i>Soyabean oil, see Oil, edible: Soyabean</i>		2	8001-22-7		OSB (VEO).
<i>Stearic acid, see Fatty acids (saturated, C13+)</i>			57-11-4	SRA	FAD (FAB/FAE/ FDI/FDT).

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Stearyl alcohol	20		112–92–5	SYL	ALY/ASY.
<i>Stoddard solvent</i> , see Naphtha: Stoddard solvent			8032–32–4		NSS.
Styrene monomer	30		100–42–5	STY.	
Sulfohydrocarbon (alternately Sulphohydrocarbon) (C3-C88)	33			SFO.	
Sulfohydrocarbon (alternately Sulphohydrocarbon), long-chain (C18+) alkylamine mixture.	7			SFX.	
Sulfolane (alternately Sulpholane)	39		126–33–0	SFL.	
Sulfonated (alternately Sulphonated) polyacrylate solutions	43	2		SPA.	
Sulfur (alternately Sulphur) (molten)	0	1, 2	7704–34–9	SXX.	
Sulfur (alternately Sulphur) dioxide	0	1	7446–09–5	SFD.	
Sulfuric (alternately Sulphuric) acid	2	2	7664–93–9	SFA	SAC.
Sulfuric (alternately Sulphuric) acid, spent	2	2	7664–93–9	SAC	SFA.
Sulfurized (alternately Sulphurized) fat (C14-C20)	33			SFT.	
Sulfurized (alternately Sulphurized) polyolefinamide	10			SPY.	
Sulfurized (alternately Sulphurized) polyolefinamide alkene (C28-C250) amine.	33			SPO.	
<i>Sunflower seed oil</i> , see Oil, edible: Sunflowerseed	34		8001–21–6		OSN (VEO).
<i>Sym-trichlorobenzene</i> , see 1,2,4-Trichlorobenzene.			108–70–3		
<i>Tall oil</i> , see Oil, misc.: Tall			8002–26–4		OTL (OTI/OTJ).
<i>Tall oil, crude</i> , see Oil, misc.: Tall, crude		2, 3	8002–26–4		OTI (OTJ/OTL).
<i>Tall oil, distilled</i> , see Oil, misc.: Tall, distilled		3	8002–26–4		OTJ (OTI/OTL).
<i>Tall oil, fatty acid</i> , see Oil, misc.: Tall fatty acid		2	61790–12–3		OTT.
<i>Tall oil fatty acid (resin acids less than 20%)</i> , see Oil, misc.: Tall oil fatty acid (resin less than 20%).		2			OTK (OTT).
Tall oil fatty acid, barium salt	0	1, 2		TOB.	
<i>Tall oil pitch</i> , see Oil, misc.: Tall pitch		3	08016–81–7		OTP (OTI/OTJ/OTL).
Tall oil soap (crude)	34			TOR	TOS.
Tall oil soap (disproportionated) solution	43			TOS.	
Tallow	34	2	61789–97–7	TLO.	
<i>Tallow alcohol</i> , see Alcohols (C13+)		2	67762–27–0	TFA	ALY (ASY).
Tallow alkyl nitrile	37			TAN.	
Tallow fatty acid	34	2	61790–37–2	TFD.	
<i>Tallow fatty alcohol</i> , see Alcohols (C13+)		2	67762–27–0	TFA	ALY.
<i>TAME</i> , see tert-Amyl methyl ether			994–05–8		AYE.
Tertiary butylphenols	21		128–39–2	BLT	BTP.
Tetrachloroethane	36		79–34–5	TEC.	
<i>1,1,2,2-Tetrachloroethane</i> , see Tetrachloroethane	36		79–34–5	TEC	TEE.
<i>Tetradecanol</i> , see Alcohols (C13+)			112–72–1	TTN	ALY.
<i>Tetradecene</i> , see olefins or alpha-olefin entries			1120–36–1		OAM/OFY/OFW/OFZ/TDD.
<i>Tetradecylbenzene</i> , see Alkyl (C9+) benzenes			1459–10–5	TDB	AKB.
Tetraethyl silicate monomer/oligomer (20% in ethanol)	0	1, 3		TSM.	
Tetraethylene glycol	40		112–60–7	TTG.	
<i>Tetraethylene glycol methyl ether</i> , see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.			23783–42–8		PAG.
Tetraethylenepentamine	7	2	112–57–2	TTP.	
Tetrahydrofuran	41		109–99–9	THF.	
Tetrahydronaphthalene	32		119–64–2	THN.	
Tetramethylbenzene (all isomers)	32		527–53–7	TTC	TTB.
<i>1,2,3,5-Tetramethylbenzene</i> , see Tetramethylbenzene (all isomers)			527–53–7	TTB	TTT.
<i>Tetrapropylbenzene</i> , see Alkyl(C9+)benzenes					AKB.
<i>Tetrasodium salt of ethylenediaminetetraacetic acid solution</i> , see Ethylenediaminetetraacetic acid, tetrasodium salt solution.			13235–36–4		EDS.
Titanium dioxide slurry	43		13463–67–7	TDS.	
Titanium tetrachloride	2		7550–45–0	TTT.	
Toluene	32	2	108–88–3	TOL.	
Toluene diisocyanate	12	2	584–84–9		TDI.
Toluenediamine	9		95–80–7	TDA.	
o-Toluidine	9	2	95–53–4	TLI	TOD/TOI.
<i>Triarylphosphate</i> , see Triisopropylated phenyl phosphates			115–86–6	TRA	TPL.
Tributyl phosphate	34		126–73–8	TBP.	
1,2,3-Trichlorobenzene (molten)	36	3	120–82–1	TBZ	TCB.
1,2,4-Trichlorobenzene	36		120–82–1	TCB	TBZ.
<i>1,2,3-Trichlorobenzol</i> , see 1,2,3-Trichlorobenzene (molten)			87–61–6	TBZ	TCB.
1,1,1-Trichloroethane	36	2	71–55–6	TCE	TCM.
1,1,2-Trichloroethane	36		79–00–5	TCM	TCE.
Trichloroethylene	36	2	79–01–6	TCL.	
1,1,2-Trichloro-1,2,2-trifluoroethane	36		76–13–1	TTF.	
Tricresyl phosphate (containing 1% or more ortho-isomer)	34	3	78–30–8 (o isomer)	TCO	TCP/TCQ.
Tricresyl phosphate (containing less than 1% ortho-isomer)	34	3	1330–78–5	TCP	TCO/TCQ.
1,2,3-Trichloropropane	36	2	96–18–4	TCN.	
<i>Tridecane (all isomers)</i> , see n-Alkanes (C10+) (all isomers)			629–50–5	TRD	ALV (ALJ).
Tridecanoic acid	34		638–53–9	TDO.	
<i>Tridecanol</i> , see Alcohols (C13+)			112–70–9	TDN	ALY (ASK/ASY/AYK/LAL).
<i>Tridecene</i> , see Olefins (C13+ all isomers)			2437–56–1	TRD	OAM/OFY/OFW/OFZ/TDC.
Tridecyl acetate	34		1072–33–9	TAE.	
<i>Tridecylbenzene</i> , see Alkyl (C9+) benzenes			123–02–4	TRB	AKB.

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Triethanolamine	8	2	102-71-6	TEA.	
Triethylamine	7		121-44-8	TEN.	
Triethylbenzene	32		102-25-0 (1,3,5)	TEB.	
Triethylene glycol	40		112-27-6	TEG.	
<i>Triethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i>			143-22-6	TBE	PAG.
Triethylene glycol butyl ether mixture	40		143-22-6	TBD.	
Triethylene glycol di-(2-ethylbutyrate)	34		95-08-9	TGD.	
Triethylene glycol dibenzoate	34		120-56-9	TGB.	
Triethylene glycol ether mixture	40		112-35-6	TYM.	
<i>Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i>			112-50-5	TGE	PAG.
<i>Triethylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i>			112-35-6	TGY	PAG.
Triethylenetetramine	7	2	112-24-3	TET.	
Triethyl phosphate	34		78-40-0	TPS.	
Triethyl phosphite	34	2	122-52-1	TPI.	
Triisobutylene	30		7756-94-7	TIB.	
Triisooctyl trimellitate	34		27251-75-8	TIS.	
Triisopropanolamine	8		122-20-3	TIP.	
<i>Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution.</i>					DTI.
Triisopropylated phenyl phosphates	34		26967-76-0	TPL.	
Trimethylacetic acid	4		75-98-9	TAA.	
Trimethylamine solution (30% or less)	7		75-50-3	TMT	TMA.
Trimethylbenzene (all isomers)	32		95-63-6 (1,2,4)	TRE	TMB/TMD/TME.
<i>Trimethyl nonanol, see Dodecyl alcohol</i>			112-53-8		DDN (ASK/ASY/LAL).
Trimethylol propane polyethoxylated	20		50586-59-9	TPR.	
Trimethyl phosphite	34	2	121-45-9	TPP.	
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)	12		28679-16-5	THI.	
Trimethylhexamethylenediamine (2,2,4- and 2,4,4-)	7		25513-64-8	THA.	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	34		6846-50-0	TMQ.	
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	34		18491-15-1	TMP.	
2,2,4-Trimethyl-3-pentanol-1-isobutyrate	34			TMR.	
1,3,5-Trioxane	41	2	110-88-3	TRO.	
Triphenylborane (10% or less)/Caustic soda solution	5		960-71-4	TPB.	
<i>Tripropylene, see Propylene trimer</i>			13987-01-4		PTR.
Tripropylene glycol	40		24800-44-0	TGC.	
<i>Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether.</i>			25498-49-1	TGM	PAG.
<i>Trisodium nitrotriacetate solution, see Nitrotriacetic acid, trisodium salt solution.</i>			5064-31-3	TSO	NCA (TSN).
Trisodium phosphate solution	5		10101-89-0	TSP.	
<i>Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution.</i>			207386-87-6		HET.
Trixylyl phosphate	34		25155-23-1		TRP.
<i>Trixylyl phosphate, see Trixylyl phosphate</i>			25155-23-1		TRP.
<i>Tung oil, see Oil, misc.: Tung</i>			8001-20-5		OTG.
Turpentine	30		9005-90-7	TPT.	
<i>Turpentine substitute, see White spirit (low (15-20%) aromatic)</i>			8052-41-13		WSL (WSP).
<i>Undecane (all isomers), see Alkanes (C10+) (all isomers)</i>			1120-21-4	UDN	ALV (ALJ).
Undecanoic acid	4		112-37-8	UDA.	
<i>Undecanol, see Undecyl alcohol</i>			112-42-5		UND (ALR).
Undecene	30		1120-21-4	UDD	UDC.
1-Undecene	30		821-95-4	UND	UDD.
Undecyl alcohol	20		112-42-5	UDC	ALR.
<i>Undecylbenzene, see Alkyl (C9+) benzenes</i>			67774-74-7	UDB	AKB.
Urea solution	43		57-13-6	USL	URE.
Urea, Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution.	0	1		UPX.	
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 free Ammonia) ..	6			UAT	ANU/UAS.
Urea/Ammonium phosphate solution	43			UAP ..	
Vacuum gas oil, see oil misc.: Vacuum gas oil	33		64741-57-7	OVC.	
Valeraldehyde (all isomers)	19		110-62-3	VAK	IVA/VAL.
Vanillin black liquor (free alkali content 3% or more)	5		68514-06-7	VBL.	
Vegetable acid oils, n.o.s.	34			VAD.	
Including:					
<i>Corn acid oil</i>	34		68308-50-9		
<i>Cottonseed acid oil</i>	34		68308-51-0		
<i>Dark mixed acid oil</i>	34				
<i>Groundnut acid oil</i>	34				
<i>Mixed acid oil</i>	34				
<i>Mixed general acid oil</i>	34				
<i>Mixed hard acid oil</i>	34				
<i>Mixed soft acid oil</i>	34				
<i>Rapeseed acid oil</i>	34		112-86-7		

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Safflower acid oil	34				
Soya acid oil	34		68308-53-2		
Sunflower seed acid oil	34		84625-38-7		
Vegetable oil mixtures, containing less than 15% free fatty acid (m).	34			VEO.	
Vegetable fatty acid distillates, n.o.s.	34	3		VFD.	
Including:					
Palm kernel fatty acid distillate	34		67701-05-7		
Palm oil fatty acid distillate	34		68440-15-3		
Tall fatty acid distillate	34		61790-12-3		
Tall oil fatty acid distillate	34		61790-12-3		
Vegetable oils, n.o.s.	34			VEO.	
Including:					
Beechnut oil	34				
Camelina oil	34		68956-68-3		
Cashew nut shell	34		8007-24-7		
Castor oil	34		8001-79-4		
Cocoa butter	34		8002-31-1		
Coconut oil	34	2	8001-31-8		
Corn oil	34		8001-30-7		
Cottonseed oil	34		801-29-4		
Croton oil	34		8001-28-3		
Grape seed oil	34		8024-22-4		
Groundnut acid oil	34				
Hazelnut oil	34		84012-21-5		
Illipe oil	34		91770-65-9		
Jatropha oil	34		88-6-7	JTO.	
Linseed oil	34		8001-26-1		
Mango kernel oil	34		90063-86-8		
Nutmeg butter	34		8008-45-5		
Oiticica oil	34		8016-35-1		
Olive oil	34		8001-25-0		
Palm kernel oil	34		8023-79-8		
Palm kernel olein	34		93334-39-5		
Palm kernel stearin	34				
Palm mid fraction	34		91079-14-0		
Palm, non-edible industrial grade	34		8002-75-3		
Palm oil	34	2, 3	8002-75-3		
Palm olein	34		93334-39-5		
Palm stearin	34		91079-14-0		
Peanut oil	34		8002-03-7		
Peel oil (oranges and lemons)	34		8008-56-8		
Perilla oil	34		68132-21-8		
Pine oil	34		8002-09-3		
Poppy seed oil	34		8002-11-7		
Poppy oil	34				
Raisin seed oil	34		8024-22-4		
Rapeseed oil	34		8002-13-9		
Rapeseed (low erucic acid containing less than 4% free fatty acids).	34	3			
Resin oil, distilled	30	3			
Rice bran oil	34		68553-81-1		
Rosin oil	34		8002-16-2		
Safflower oil	34		8001-23-8		
Salad oil	34		68956-68-3		
Sesame oil	34		8008-74-0		
Shea butter	34		194043-92-0		
Soyabean oil	34	2	8001-22-7		
Sunflower seed oil	34		8001-21-6		
Tall	34		8002-26-4		
Tall, crude	34		8002-26-4		
Tall, distilled	34		8002-26-4		
Tall, pitch	34		8016-81-7		
Tucum oil	34		98143-57-8		
Tung oil	34		8001-20-5		
Walnut oil	34		8024-09-7		
Vegetable protein solution (hydrolyzed)	43		100209-45-8	VPS.	
Vinyl acetate	13	2	108-05-4	VAM.	
Vinyl chloride	35		75-01-4	VCM.	
Vinyl ethyl ether	13		109-92-2	VEE.	
Vinylidene chloride	35		75-35-4	VCI.	
Vinyl neodecanoate	13	2	51000-52-3	VND.	
Vinytoluene	13		25013-15-4	VNT.	
Water	43		7732-18-5	WTR.	
Waxes				WAX.	
Including:					
Candelilla	34		8006-44-8	WCD.	
Carnauba	34		8015-86-9	WCA.	
Hydrocarbon	31			WHC	WPF.
Paraffin	31		8002-74-2	WPF.	

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES—Continued

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Petroleum</i>	33	.....	.....	WPT.	
White spirit, <i>see</i> White spirit (low (15–20%) aromatic) .....	.....	.....	8052–41–13	WSP	WSL.
White spirit (low (15–20%) aromatic)	33	.....	8052–41–3	WSL	WSP.
Wine, <i>see</i> Alcoholic beverages .....	.....	.....	64–17–5	ABV.	
Wood lignin with Sodium acetate/oxalate	0	1, 3	.....	WOL.	
Xylenes	32	2	106–42–3	XLX	XLM/XLO/XLP.
Xylenes/Ethylbenzene (10% or more) mixture	32	.....	.....	XEB.	
Xylenols	21	.....	105–67–9	XYL.	
Zinc alkaryl dithiophosphate (C7-C16)	34	.....	.....	ZAD.	
Zinc alkenyl carboxamide	10	.....	.....	ZAA	WSL.
Zinc alkyl dithiophosphate (C3-C14)	34	.....	688649–42–3	ZAP.	
Zinc bromide/Calcium bromide solution, <i>see</i> Drilling brine (containing Zinc salts) .....	.....	.....	7699–45–8	.....	DZB.

Notes:

1. Because of very high reactivity, 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. Entry was added from the March 2012 Annex to the 2007 edition of the IBC Code (MEPC 63/23/Add.1), the December 2012 IMO Marine Environmental Protection Committee Circular (MEPC.2/Circ.18), or the December 2013 IMO Marine Environmental Protection Committee Circular (MEPC.2/Circ.19).
4. *Italicized* words are not part of the cargo name but may be used in addition to the cargo name.
5. CAS numbers marked with an asterisk (*) represent the CAS number of the lowest member in the homologous series.

■ 5. Amend Table 2 to part 150 as follows:

- a. Under Group 0, after the entry for “n-Octyl Mercaptan”, add, in alphanumeric order, the entries, “Offshore contaminated bulk liquid P” and “Offshore contaminated bulk liquid S”;
- b. Under Group 4, after the entry for “Dimethyl octanoic acid”, add, in alphanumeric order, the entries, “Fish protein concentrate (containing 4% or less formic acid)” and “Fish silage protein concentrate (containing 4% or less formic acid)”;
- c. Under Group 7, remove the entry for “Poly olefin amine”
- d. Under Group 9, after the entry for “2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline”, add, in alphanumeric order, the entries, “1,3,5-Hexahydrotriethanol-1,3,5-triazine solution” and “Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)”;
- e. Under Group 20:
 - i. After the entry for “Alcohol (C6-C17) (secondary) poly (3-6) ethoxylates” add an entry for “Alcohol (C10-C18) poly (7) ethoxylates”;
 - ii. After the entry for “Alcohols (C13+)”, add an entry for “Alkyl/cyclo (C4-C5) alcohols”;
 - iii. After the entry for “Dodecyl alcohol (all isomers)”, add an entry for “n-Dodecyl mercaptan”; and
 - iv. After the entry for “Ethylene glycol.1”, add, in alphanumeric order, the entries, “Ethylene glycol (≤75%)/Sodium alkyl carboxylates/borax mixture” and “Ethylene glycol (≤85%)/Sodium alkyl carboxylates mixture”;

- f. Under Group 21:
 - i. After the entry “Alkylated (C4-C9) hindered phenols”, add an entry for “Alkylphenols (C10-C18, C12 rich)”;
 - ii. After the entry for “Cresols (all isomers)” add an entry for “Cresol/Phenol/Xylenol mixture”; and
 - iii. After the entry for “Long-chain alkylphenate/Phenol sulfide (alternately sulphide) mixture”, add, in alphanumeric order, the entries, “Long-chain alkylphenol (C14-C18)” and “Long-chain alkylphenol (C18-C30)”;
 - g. Under Group 30, after the entry for “Dodecene (all isomers)”, add an entry for “1-Dodecene”;
 - h. Under Group 31, after the entry for “Heptadecane (all isomers)”, add an entry for “Hydrocarbon wax”;
 - i. Under Group 32:
 - i. After the entry for “Alkyl (C5-C8) benzenes”, add an entry for “Alkylbenzenes mixtures (containing naphthalene)”;
 - ii. After the entry for “Hexylbenzenes”, add an entry for “Naphthalene crude (molten)”;
 - j. Under Group 34:
 - i. After the entry for “Cod liver oil”, add, in alphanumeric order, the entries, “Cyclohexane-1,2-dicarboxylic acid,diisononyl ester” and “2,6-Diaminohexanoic acid phosphonate mixed salts solution”;
 - ii. Under the entry, “Oil, misc.:", add, in alphanumeric order, the subentries, “Used cooking oil” and “Used cooking oil (triglycerides, C16-C18 and C18 unsaturated)”;
 - iii. After the entry for “Phosphate esters”, add an entry for “[[(Phosphonomethyl)imino]bis[ethylene

- nitrilobis(methylene)]] tetrakisphosphonic acid, ammonium salt solution (60% or less)”; and
 - iv. Under the entry for “Vegetable acid oils, n.o.s.”, add, in alphanumeric order, a subentry for “Vegetable oil mixtures, containing less than 15% free fatty acid (m)”;
 - k. Under Group 40:
 - i. After the entry for “Alkyl (C9-C15) phenyl propoxylate”, add an entry for “Alkyl (C10-C15, C12 rich) phenol poly (4-12)ethoxylate”;
 - ii. Remove the entry for “Diethylene glycol n-hexyl ethe” and add, in its place, an entry for “Diethylene glycol n-hexyl ether”;
 - iii. Remove the entry for “Glucitol/glycerol blend propoxylated (containing less than 10% amines)” and add, in its place, an entry for “Glucitol/Glycerol blend propoxylated (containing less than 10% amines)”;
 - iv. After the entry for: “Glucitol/Glycerol blend propoxylated (containing less than 10% amines)”, add an entry for “Glucitol/Glycerol blend propoxylated (containing 10% or more amines)”;
 - l. Under Group 41, after the entry for “Alkaryl polyethers (C9-C20)”, add an entry for “tert-Amyl ethyl ether”; and
 - m. Under Group 43:
 - i. After the entry for “Corn syrup”, add an entry for “Cyclohexane oxidation products, sodium salts solution”, and;
 - ii. Remove the entry for “N-Methylglucamine solution (70% or less)”.
- The additions read as follows:

TABLE 2 TO PART 150—GROUPING OF CARGOES

Group	Cargo
0. Unassigned Cargoes:	
*	* * * * *
	Offshore contaminated bulk liquid P. Offshore contaminated bulk liquid S.
4. Organic Acids:	
*	* * * * *
	Fish protein concentrate (containing 4% or less formic acid). Fish silage protein concentrate (containing 4% or less formic acid).
9. Aromatic Amines:	
*	* * * * *
	1,3,5-Hexahydrotriethanol-1,3,5-triazine solution. Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less).
20. Alcohols, Glycols:	
*	* * * * *
	Alcohol (C10-C18) poly (7) ethoxylates.
*	* * * * *
	Alkyl/cyclo (C4-C5) alcohols.
*	* * * * *
	n-Dodecyl mercaptan.
*	* * * * *
	Ethylene glycol ($\leq 75\%$)/Sodium alkyl carboxylates/borax mixture. Ethylene glycol ($\leq 85\%$)/Sodium alkyl carboxylates mixture.
21. Phenols, Cresols:	
*	* * * * *
	Alkylphenols (C10-C18, C12 rich).
*	* * * * *
	Cresol/Phenol/Xylenol mixture.
*	* * * * *
	Long-chain alkylphenol (C14-C18). Long-chain alkylphenol (C18-C30).
30. Olefins:	
*	* * * * *
	1-Dodecene.
31. Paraffins:	
*	* * * * *
	Hydrocarbon wax.
32. Aromatic Hydrocarbons:	
*	* * * * *
	Alkylbenzenes mixtures (containing naphthalene).
*	* * * * *
	Naphthalene crude (molten).
34. Esters:	
*	* * * * *

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
*	*
	Cyclohexane-1,2-dicarboxylic acid, diisononyl ester. 2,6-Diaminohexanoic acid phosphonate mixed salts solution.
*	*
	Oils, misc:
*	*
	Used cooking oil. Used cooking oil (triglycerides, C16-C18 and C18 unsaturated).
*	*
	[[[(Phosphonomethyl)imino]bis[ethylenenitribis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less).
*	*
	Vegetable acid oils, n.o.s.:
*	*
	Vegetable oil mixtures, containing less than 15% free fatty acid (m).
*	*
40. Glycol Ethers:	
*	*
	Alkyl (C10-C15, C12 rich) phenol poly (4-12)ethoxylate.
*	*
	Diethylene glycol n-hexyl ether.
*	*
	Glucitol/Glycerol blend propoxylated (containing less than 10% amines). Glucitol/Glycerol blend propoxylated (containing 10% or more amines).
*	*
41. Ethers:	
*	*
	tert-Amyl ethyl ether.
*	*
43. Miscellaneous Water Solutions:	
*	*
	Cyclohexane oxidation products, sodium salts solution.
*	*

* * * * *

■ 6: Amend Appendix I to part 150 as follows:

■ a. In the table in paragraph (a):

■ i. In the “Member of reactive group” column, after the entry for “Caustic soda 50% or less (5)”, add an entry for “2,4, D Dimethyl amine salt (DMA 806) (0)”, and, to the “Compatible with” column, add the entries, in alphanumeric order, “Acetone (18)”, “Ethyl Acrylate (14)”,

“Methyl Alcohol (20)”, and “Toluene (32)”;

■ ii. In the “Member of reactive group” column, remove the entry for “Dimethyl disulfide (alternately disulfide) (0)” and replace it with an entry for “Dimethyl disulfide (alternately disulphide) (0)”;

■ iii. In the “Member of reactive group” column, after the entry for “tert-Dodecanethiol (20)”, add the entry for “tert-Dodecanethiol (Sulfole 120) (0)”, and, in the “Compatible with” column,

add the entries, in alphanumeric order, “Acetone (18)”, “Ethyl Acrylate (14)”, “Methyl Alcohol (20)”, “Polymeric methylene diphenyl diisocyanate (Papi 27) (12)”, and “Toluene (32)”;

■ iv. In the “Member of reactive group” column, after the new entry for “tert-Dodecanethiol (Sulfole 120) (0)”, add an entry for “tert-Dodecanethiol (0)”, and, in the “Compatible with” column, add the entries, in alphanumeric order, “All

Chemicals in Group 33” and “Acetone (18)”;

■ v. In the “Member of reactive group” column, after the new entry for “tert-Dodecanethiol (0)”, add an entry for “n-Dodecyl mercaptan (0)”, and, in the “Compatible with” column, add an entry, in alphanumeric order, for “All chemicals in Group 33”;

■ vi. In the “Member of reactive group” column, after the entry for “Ethylenediamine (7)”, add an entry for “Hexamethylenediamine (7)”, and, in the “Compatible with” column, add, in alphanumeric order, an entry for “Ethyl Alcohol (Ethanol) (20)”;

■ vii. In the “Member of reactive group” column, after the new entry for “Hexamethylenediamine (7)”, add an entry for “Hexamethylenediamine (molten) (HMD 98%, molten) (7)”, and in the “Compatible with” column add the entries, in alphanumeric order, “N-Butyl Alcohol (20)”, “Isobutyl Alcohol (20)”, and “Isopropyl Alcohol (20)”;

■ viii. In the “Member of reactive group” column, after the new entry for “Hexamethylenediamine (molten) (HMD 98%, molten) (7)”, add an entry for “Hexamethylenediamine solution (7)”, and, in the “Compatible with” column, add an entry for “CepSinol™ 1216 (Alcohols (C12+), primary, linear) (20)”;

■ ix. In the “Member of reactive group” column, after the new entry for “Hexamethylenediamine solution (7)”, add an entry for

“Hexamethylenediamine solution (HMD 90%) (7)”, and, in the “Compatible with” column, add, in alphanumeric order, the entries, “N-Butyl Alcohol (20)”, “Isobutyl Alcohol (20)”, and “Isopropyl Alcohol (20)”;

■ x. In the “Member of reactive group” column, after the entry for “Oleum (0)”, add an entry for “Phenol (90% hydrated) (21)”, and, in the “Compatible with” column, add an entry for “Toluene diisocyanate (12)”;

■ xi. In the “Member of reactive group” column, after the entry for “Sodium dichromate solution (70% or less) (0)”, add an entry for “Sodium Hydrosulfide (alternatively Hydrosulphide) Solution (5)”, and, in the “Compatible with” column, add an entry for “Ethyl Alcohol (Ethanol) (20)”;

■ xii. In the “Member of reactive group” column, after the entry for “Sodium Methylate 21–30% in methanol (0)”, add an entry for “Sodium Methylate, 30% solution in Methanol (0)”, and, in the “Compatible with” column, add, in alphanumeric order, the following entries:

- A. n-Butyl Alcohol (20);
- B. Decene (30);
- C. Decyl Alcohol (20);

- D. Dialkyl (C9-C10) phthalates (34);
- E. Dichloromethane (36);
- F. Ethanolamine (8) (including Monoethanolamine);
- G. Hexene (all isomers) (30);
- H. Methyl Isobutyl Ketone (18);
- I. Olefin mixtures (C5-C15) (30);
- J. Olefins (C13+ all isomers) (30);
- K. Phenol (21);
- L. n-Propyl Alcohol (20);
- M. Propylheptanol (20);
- N. C9-Resinfeed (32);
- O. Sodium Borohydride (15% or less)/ Sodium hydroxide solution (5);
- P. Solvent Naphtha (33);
- Q. Styrene Monomer (30);
- R. Toluene (32); and
- S. Xylenes (Incl. m-Xylene) (32); and
- xiii. In the “Member of reactive group” column, after the entry for “Sulfuric (alternatively Sulphuric) acid, 98% or less(2)”, add the entry for “Sulfuric (alternatively Sulphuric) Acid (95–98%) (2)”, and, in the the “Compatible with” column, add the entries, “Methyl Ester Fatty Acid (34)” and “Soybean Oil (34)”.

■ b. Amend paragraph (b) by adding, in alphabetical order, an entry for “Toluene diisocyanate (TDI) (12)”.

The additions read as follows:

Appendix I to Part 150—Exceptions to the Chart

(a) * * *

Member of reactive group	Compatible with
* * * * *	
2,4, D Dimethyl amine salt (DMA 806) (0)	Acetone (18). Ethyl Acrylate (14). Methyl Alcohol (20). Toluene (32).
* * * * *	
tert-Dodecanethiol (Sulfole 120) (0)	Acetone (18). Ethyl Acrylate (14). Methyl Alcohol (20). Polymeric methylene diphenyl diisocyanate (Papi 27) (12). Toluene (32).
tert-Dodecanethiol (0)	All Chemicals in Group 33.
tert-Dodecanethiol (0)	Acetone (18).
* * * * *	
Hexamethylenediamine (7)	Ethyl Alcohol (Ethanol) (20).
Hexamethylenediamine (molten) (HMD 98%, molten) (7)	n-Butyl Alcohol (20). Isobutyl Alcohol (20). Isopropyl Alcohol (20).
Hexamethylenediamine solution (7)	CepSinol™ 1216 (Alcohols (C12+), primary, linear) (20).
Hexamethylenediamine solution (HMD 90%) (7)	n-Butyl Alcohol (20). Isobutyl Alcohol (20). Isopropyl Alcohol (20).
* * * * *	
Phenol (90% hydrated) (21)	Toluene diisocyanate (12).
* * * * *	
Sodium hydrosulfide(alternatively Hydrosulphide) Solution (5)	Ethyl Alcohol (Ethanol) (20).

Member of reactive group	Compatible with
Sodium Methylate, 30% solution in Methanol (0)	n-Butyl Alcohol (20). Decene (30). Decyl Alcohol (20). Dialkyl (C9-C10) phthalates (34). Dichloromethane (36). Ethanolamine (8)(including Monoethanolamine). Hexene (all isomers) (30). Methyl Isobutyl Ketone (18). Olefin mixtures (C5-C15) (30). Olefins (C13+ all isomers) (30). Phenol (21). n-Propyl Alcohol (20). Propylheptanol (20). C9-Resinfeed (32). Sodium Borohydride (15% or less)/Sodium hydroxide solution (5). Solvent Naphtha (33). Styrene Monomer (30). Toluene (32). Xylenes (Incl. m-Xylene) (32).
Sulfuric (alternatively Sulphuric) Acid (95–98%) (Group 2)	Methyl Ester Fatty Acid (34). Soybean Oil (34).

(b) * * *
 * * * * *

Toluene diisocyanate (TDI) (12) is not compatible with Alkylbenzene sulphonic acid, sodium salt solution (Group 33), Calcium nitrate solutions (50% or less) (Group 34), Calcium nitrate/Magnesium nitrate/Potassium chloride solution (Group 34),

Formaldehyde solutions (45% or less) (Group 19), Glutaraldehyde solutions (50% or less) (Group 19), Lactonitrile solution (80% or less) (Group 37), Nitrotriacetic acid, trisodium salt solution (Group 34), Sodium acetate solutions (Group 34), Sodium sulphate

solutions (Group 34), Polyferric sulphate solution (Group 34).
 * * * * *

Dated: August 25, 2022.

W.R. Arguin,

Rear Admiral, U.S. Coast Guard, Assistant Commandant for Prevention Policy.

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