

**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: Final rule.

**SUMMARY:** The Coast Guard is issuing this final rule to align liquid chemical categorization tables in its tank vessels and bulk dangerous cargo regulations with the 2020 Edition of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. The updated tables provide a list of the liquid hazardous materials, liquefied gases, 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 rule imposes no additional costs to chemical shippers or vessel owners.

**DATES:** This final rule is effective December 21, 2023.

**ADDRESSES:** To view documents mentioned in this preamble as being available in the docket, go to [www.regulations.gov](http://www.regulations.gov), type USCG–2022–0327 in the search box and click “Search.” Next, in the Document Type column, select “Supporting & Related Material.”

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**I. Abbreviations**

CAS RN CAS Registry Number  
 CFR Code of Federal Regulations  
 CG–ENG–5 U.S. Coast Guard Hazardous Materials Division  
 CHRIS Chemical Hazards Response Information System  
 DHS Department of Homeland Security  
 FR Federal Register  
 IBC Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk  
 IBC Code (2020) 2020 edition of the IBC Code  
 LCC Liquid Chemical Categorization  
 IMO International Maritime Organization  
 MARPOL International Convention for the Prevention of Pollution from Ships  
 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

**II. Basis and Purpose**

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 (MARPOL) Protocol of 1978 relating to the International Convention for the Prevention of Pollution from Ships, 1973), 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. 01.3, paragraphs (II)(77) and (92)(a) and (b).

The purpose of this rulemaking is to provide updates to 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.

**III. Background**

The Coast Guard is tasked by Congress with promulgating regulations to improve the shipping practices in the United States. Since 1983, the Coast Guard has published tables with chemicals that are safe to ship together, and others that are incompatible for shipping, in order to improve their shipping safety.

Each December, the International Maritime Organization’s (IMO) Marine Environment Protection Committee (MEPC) releases an annual circular that lists cargoes which have undergone a multi-year review to determine safe carriage requirements. A cargo is listed in the circular if a tripartite agreement approved it for international bulk maritime transportation and the MEPC validated 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 updated cargoes listed in the MEPC annual circulars.

The Coast Guard, as the administrator of regulations that control liquid chemical shipping practices, has endeavored to update these regulations to keep the Code of Federal Regulations (CFR) aligned with international standards. This rulemaking is one in a planned series of rulemakings that will periodically update the Code of Federal Regulations (CFR) to align with latest updates of the IBC Code (2020). The last time the Coast Guard updated these regulations was in a final rule published April 17, 2020 entitled “2013 Liquid Chemical Categorization Updates” (85 FR 21660).<sup>1</sup> In addition, the Coast Guard corrected minor typographical errors in a correcting amendments document published May 8, 2020 and effective May 18, 2020 and entitled “2013 Liquid Chemical Categorization Updates; Correction” (85 FR 27308).<sup>2</sup> The Coast Guard corrected additional minor errors in a correcting amendments document published and effective on August 5, 2021 and entitled “2013 Liquid

<sup>1</sup> <https://www.federalregister.gov/documents/2020/04/17/2019-27628/2013-liquid-chemical-categorization-updates>. (Last visited 05/04/2023.)

<sup>2</sup> <https://www.federalregister.gov/documents/2020/05/08/2020-09958/2013-liquid-chemical-categorization-updates-correction>. (Last visited 05/31/2023.)

Chemical Categorization Updates” (86 FR 42738).<sup>3</sup>

#### IV. Discussion of Comments

On September 22, 2022, the Coast Guard published a notice of proposed rulemaking (NPRM) titled “2022 Liquid Chemical Categorization Updates” (87 FR 57984) requesting comments on the proposed changes implemented by this final rule.<sup>4</sup> The comment period for the NPRM ended on December 21, 2022. The Coast Guard received no comments on the proposed rule.

#### V. Discussion of the Rule

Coast Guard regulations in 46 CFR chapter I 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 during the Coast Guard and MEPC’s assessment and review processes, which are described in the following paragraphs. This rule incorporates information from MEPC Resolution number 2, Circular 25, dated December 1, 2019 (MEPC.2/Circ.25)<sup>5</sup> that vessel owners and operators, and shippers use to transport such cargoes safely and so brings 46 CFR chapter I subchapters D and O into closer conformity with the IBC Code (2020).

The agencies 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 between 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 categorizing the cargo in the tripartite agreement, the Coast Guard also assigns each cargo to a compatibility group. The compatibility 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 grouping is informed by chemical analyses and test data submitted by manufacturers. 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 assessment. Each December, the MEPC releases a circular listing each new cargo for which it has completed its review. The circular lists the countries that have approved each new cargo for international maritime transportation and provides information about each cargo’s pollution-hazard risk, flammability and combustibility. Periodically, the IBC Code is revised to update the cargoes listed in the MEPC’s annual circulars.

This rule brings the following tables in 46 CFR chapter I into closer conformity with the IBC Code (2020) by incorporating information from MEPC.2/Circ.25:

- Table 30.25–1, List of Flammable and Combustible Bulk Liquid Cargoes, in subchapter D;
- 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 in vessels certificated under subchapter D regulations. We are updating Table 30.25–1 to add flammable or combustible chemicals that are approved for shipping by the IBC Code (2020) and appear in the MEPC.2/Circ.25. The circular is available online at <http://ocn.cl/wp-content/uploads/2021/03/IMO-MEPC-2-CIRC-25-2019.pdf>.

Table 1 to Part 150 is a comprehensive table that includes all cargoes subject to the regulations in subchapter D. Table 1 lists these cargoes alphabetically and lists the chemical compatibility group number assigned to each cargo. We are updating Table 1 to include cargoes that have been approved for shipping by the IBC Code (2020) and 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 align Table 2 with Table 1 to Part 150 and so update it to include cargoes that have been approved for shipping by the IBC Code (2020) 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-shipping. 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 stakeholders can maximize the efficiency of their shipping practices. We are updating Appendix I to include cargoes from the updated tables 1 and 2 that have such positive exceptions.

To further illustrate how the chemical categorization tables work together, Section (b) of Appendix I 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 I(b) so that stakeholders can be sure to ship such cargoes safely.

We are including one addition to section (b) of Appendix I to Part 150 that was not included in the proposed rule. On March 2, 2023, the Coast Guard received a report from industry stakeholders detailing testing procedures that demonstrated the incompatibility of Glycol ethers (Group 40) and Acrylonitrile (Group 15). According to the report, which is available in the docket, the chemical reaction that resulted from the reactivity test released gas and increased temperatures. We have decided to include this negative chemical compatibility exception in this final rule in the interest of public safety.

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

<sup>3</sup> <https://www.federalregister.gov/documents/2021/08/05/2021-15740/2013-liquid-chemical-categorization-updates>. (Last visited 05/31/2023.)

<sup>4</sup> <https://www.federalregister.gov/documents/2022/09/22/2022-18798/2022-liquid-chemical-categorization-updates>. (Last visited 05/04/2023.)

<sup>5</sup> This document is available in the docket and accessible online at <https://docs.imo.org/Shared/Download.aspx?did=119893>.

identifying chemicals. A CAS 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 the CAS RNs makes it easier to use the information and leads to safer shipping practices.

The Coast Guard considered proposing the removal of Chemical Hazards Response Information System (CHRIS) codes from the tables. While the Coast Guard decided not to propose such a removal in the proposed rule, we solicited comments from the public on the utility of CHRIS codes. Having received no comments, the Coast Guard will not remove the CHRIS codes in this final rule. However, the next iteration of updates to these tables will most likely propose the removal of the CHRIS codes, which are no longer used in practice.

The rule also revises the authority citation to 46 CFR part 150 so that it no longer cites 44 U.S.C. 3507 in citing DHS Delegation No. 00170.1. This was done because DHS Delegation No. 00170.1 does not address 44 U.S.C. 3507 and that statute dictates the manner in which the Coast Guard may seek approval to collect information, rather

than delegating authority to edit the CFR. The authority citation is further revised to reflect another revision to the citation of DHS Delegation No. 00170.1.

In this final rule, we also add clarifying language to the chemical entries, make conforming edits across the tables, and correct typographical and punctuation errors. We have also edited the Notes and formatting in the tables to make them easier to understand.

**VI. Regulatory Analyses**

We developed this rule after considering numerous statutes and Executive orders related to rulemaking. Below we summarize our analyses based on these statutes or Executive orders.

*A. Regulatory Planning and Review*

Executive Orders 12866 (Regulatory Planning and Review), as amended by Executive Order 14094 (Modernizing Regulatory Review), and 13563 (Improving Regulation and Regulatory Review) direct agencies to assess the costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits (including potential economic, environmental, public health and safety effects, distributive impacts, and equity). Executive Order 13563 emphasizes the importance of

quantifying both costs and benefits, of reducing costs, of harmonizing rules, and of promoting flexibility.

Executive Order 13610 (Identifying and Reducing Regulatory Burdens) promotes the goals of Executive Order 13563. Executive Order 13610 aims to modernize the regulatory systems and to reduce unjustified regulatory burdens and costs on the public.

The Office of Management and Budget (OMB) has not designated this rule a significant regulatory action under section 3(f) of Executive Order 12866, as amended by Executive Order 14094. Accordingly, OMB has not reviewed this regulatory action. A regulatory analysis (RA) follows.

The Coast Guard received no comments from the public on the proposed rule. Since there was no feedback from public commenters that would require changes to the regulatory analysis for this final rule, we adopt the regulatory analysis that we presented in the proposed rule.

**Summary of Impacts of This Rule**

In this rule, the Coast Guard incorporates information from MEPC.2/Circ.25 into the tables of subchapters D and O to conform the tables with the IBC Code (2020). In subchapter D, we revise table 30.25–1; in subchapter O, we revise tables 1 and 2 and Appendix I to part 150. A summary of the impacts from the rule 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 incorporate information from 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 information from MEPC.2/Circ.25. Clarifies regulatory requirements and makes the updated chemical information easier to use.

**Affected Population**

This 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 liquid hazardous material, liquefied gas, and compressed gas that has been categorized and approved for maritime transportation in bulk by the IMO and the Coast Guard. In this rule, the Coast Guard is making no additional changes about whether any specific liquid bulk dangerous cargo is approved for maritime transportation, about how any specific cargo is categorized, or about carriage requirements that apply to any specific

cargo. The rule provides updated information about cargoes that are currently approved for maritime transportation in bulk, and the cargo’s pollution categorization and minimum transportation safety requirements. The rule also adds a column to Table 1 of part 150 containing the applicable CAS RNs. This rule applies to the carriage of the cargoes by the 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 rule also applies to U.S.- and foreign-flagged self-propelled bulk cargo-carrying vessels when in U.S. waters, see 46 CFR 153.1. Foreign tank vessels are exempt from

this regulation when on innocent passage through U.S. waters, see 33 CFR 157.01.

**Costs**

This rule updates the tables to reflect changes already made under MEPC approved tripartite agreements regarding which liquid chemical substances are approved for bulk maritime transportation, and how those substances are categorized with respect to their pollution risk. The Coast Guard already applies these standards when assessing ad hoc domestic carriage requests for liquid chemicals. Vessel owners and chemical shippers will have to comply with these standards to receive Coast Guard approval for carriage. Industry is aware of this

procedure, and we believe that chemical shippers already comply with these standards. Therefore, the Coast Guard does not expect that this rule will 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 rule will impose any additional costs on the Coast Guard. This rule incorporates the Coast Guard's compatibility categorizations, as well as chemical cargoes and categorizations listed in IMO's IBC Code (2020) and MEPC.2/Circ.25.

#### Benefits

The rule provides qualitative benefits by updating the LCC tables, thereby aligning the domestic shipping requirements for liquid bulk dangerous cargoes with current international standards. The Coast Guard expects this 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 rule codifies existing industry practices which will add clarity about 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 rule has 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 vessel owners or chemical shippers engaged in the transport of the LCC chemicals. In addition, the rule does not impose economic costs on the regulated public. The Coast Guard does not expect that small entities will incur any incremental costs; therefore, the Coast Guard finds that there is no significant impact on small entities nor are a substantial number of small entities incurring impacts. Therefore, the Coast Guard certifies under 5 U.S.C. 605(b) that this rule will not have a significant economic impact on a substantial number of small entities.

#### C. Assistance for Small Entities

Under section 213(a) of the Small Business Regulatory Enforcement Fairness Act of 1996, Public Law 104–

121, we offer to assist small entities in understanding this rule so that they can better evaluate its effects on them and participate in the rulemaking. The Coast Guard will not retaliate against small entities that question or complain about this 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 rule calls for no new or revised collection of information under the Paperwork Reduction Act of 1995, 44 U.S.C. 3501–3520. This rule simply updates tables that list liquid bulk dangerous 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 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. This 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.

#### 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 \$100,000,000 (adjusted for inflation) or more in any one year. Although this rule will not result in such expenditure, we do discuss the effects of this rule elsewhere in this preamble.

#### G. Taking of Private Property

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

#### J. Indian Tribal Governments

This rule does not have tribal implications under Executive Order 13175 (Consultation and Coordination with Indian Tribal Governments), because it will 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 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 rule does not use technical standards. It is based on international standards that were developed using consensus standards development processes. Therefore, we did not consider the use of voluntary consensus standards.

#### M. Environment

We have analyzed this 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 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 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 rule meets the criteria for categorical exclusions L52 and L54 of Appendix A, Table 1 of DHS Instruction Manual 023–01–001–01, Rev. 1.<sup>6</sup> Paragraph L52 pertains to regulations concerning vessel operation safety

<sup>6</sup> [https://www.dhs.gov/sites/default/files/publications/DHS\\_Instruction%20Manual%20023-01-001-01%20Rev%2001\\_508%20Admin%20Rev.pdf](https://www.dhs.gov/sites/default/files/publications/DHS_Instruction%20Manual%20023-01-001-01%20Rev%2001_508%20Admin%20Rev.pdf). (Last visited 05/04/2023.)

standards, equipment approval, and or equipment carriage requirements; paragraph L54 pertains to promulgation of regulations that are editorial or procedural. This rule updates the LCC tables by incorporating information from MEPC.2/Circ.25 to more closely conform the tables with the IBC Code (2020). These tables provide a list of liquid hazardous material, liquefied gases, 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 these changes are consistent with the Coast Guard’s maritime safety and stewardship missions.

#### 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. 01.3.

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

■ a. Adding in alphabetical order entries for “Alcohol (C10–C18) poly (7) ethoxylates”, “Alkylbenzenes mixtures (containing naphthalene)”, “Alkyl/cyclo (C4–C5) alcohols”, “Alkylphenols (C10–C18, C12 rich)”, “Alkyl (C10–C15, C12 rich) phenol poly (4–12) ethoxylate”, “Cresol/Phenol/Xylenol mixture”, “Cyclohexane-1, 2-dicarboxylic acid, diisononyl ester”, “1-Dodecene”, “n-Dodecyl mercaptan”, “Ethylene glycol/ (<75%)/Sodium alkyl carboxylates/ borax mixture”, “Ethylene glycol (< 85%)/Sodium alkyl carboxylates mixture”, “Glucitol/Glycerol blend

propoxylated (containing less than 10% amines)”;

■ b. Removing the entry for “Glucitol/ glycerol blend propoxylated (containing 10% or more amines)”;

■ c. Adding in alphabetic order entries for “Glucitol/Glycerol blend propoxylated (containing 10% or more amines)”, “Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)”, “Long-chain alkylphenol (C14–C18)” and “Long-chain alkylphenol (C18–C30)”;

■ d. Removing the entry for “N-Methylglucamine solution (70% or less)”;

■ e. Adding in alphabetic order entries for “N-Methylglucamine solution”, “Naphthalene crude (molten)”, “Offshore contaminated bulk liquid P (Pollution-only products)”, “Offshore contaminated bulk liquid S (Safety hazard products)”;

■ f. Under the heading “Oil, fuel:” after the entry “No. 6”, adding a heading for “Oil, misc.:", and, in alphanumeric order, adding the entries, “Used cooking oil” and “Used cooking oil (triglycerides, C16–C18 and C18 unsaturated)”;

■ g. Adding in alphabetic order entries for “Polyolefinamine (C17+)”, and “Rapeseed acid oil”;

■ h. Removing the entry for “Rape seed oil fatty acid methyl esters\*”;

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

■ j. Revising the entry for “Vegetable oils, n.o.s.”;

■ k. Removing the entry for “Vinyltoluene” and adding in alphabetic order an entry for “Vinyl toluene”;

■ l. Under the heading for “Waxes:”, adding, in alphanumeric order, an entry for “Hydrocarbon”; and

■ m. In the Notes to Table 30.25–1, in the entry for “ST,” remove the text “2016” and, in its place, add the text “2020”.

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) <a href="https://fedimpact.com/request-to-meet/">https://fedimpact.com/request-to-meet/</a> .....	Y
N-Methylglucamine solution .....	Z
Naphthalene crude (molten) .....	Y
Offshore contaminated bulk liquid P (Pollution-only products) .....	X
Offshore contaminated bulk liquid S (Safety hazard products) .....	X
Oil, misc.:	
Used cooking oil .....	X
Used cooking oil (triglycerides, C16–C18 and C18 unsaturated) .....	Y
Polyolefinamine (C17+) .....	Y
Rapeseed acid oil .....	#
Vegetable acid oils, n.o.s.:	
Vegetable oil mixtures, containing less than 15% free fatty acid (m) .....	Y
Vegetable oils, n.o.s.	
<b>Vinyl toluene</b> .....	<b>Y</b>
Waxes:	

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
Hydrocarbon .....	Y
*	*
*	*

**Notes:**

- "#" = The noxious liquid substance status is undetermined—see 46 CFR 153.900(c) for shipping on an oceangoing vessel.
- "†" = Marine occupational safety and health regulations for benzene, 46 CFR part 197, subpart C, may apply to this cargo.
- "[]" = Provisional categorization to which the United States is party.
- "@" = The noxious liquid substance category has been assigned by the Coast Guard, in the absence of one assigned by the IMO. The category is based on a GESAMP Hazard Profile or, by analogy, to a closely related product having a noxious liquid substance assigned.
- Bolded** entries were 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).
- "Cat" = Pollution category.
- "F" = Flammable (flash point less than or equal to 60 °C (140 °F).
- "I" = An "oil" under MARPOL Annex I.
- Italicized* words are not part of the cargo name, but may be used in addition to the cargo name.
- "LFG" = Liquid flammable gas.
- "n.o.s." = Not otherwise specified.
- "OS" = An "other substance" considered at present to pose no harm to marine resources, human health, amenities, or other legitimate uses of the sea when discharged into the sea from tank cleaning or deballasting operations.
- "see" = A redirection to the preferred, alternative cargo name—for example, in "*Diethyl ether, see Ethyl ether,*" the pollution category for "diethyl ether" will be found under the preferred, alternative cargo name "ethyl ether."
- "ST" = Ship type, as defined in Chapter 2 of the IBC Code (2020).
- "X," "Y," and "Z" = Noxious liquid substance categories under MARPOL Annex II.

**PART 150—COMPATIBILITY OF CARGOES**

Authority: 46 U.S.C. 3306, 3703; DHS Delegation No. 00170.1, Revision No. 01.3.

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

■ 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.	
<i>Acid oil mixture from soyabean, corn (maize) and sunflower oil refining, see Oil, misc.: Acid mixture from soyabean, corn (maize), and sunflower oil refining.</i>	.....	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
<i>Alcohol (C12-C15) poly (. . .) ethoxylate, see Alcohol (C12-C16) poly (. . .) ethoxylate.</i>	.....	.....	*68131-39-2	.....	
Alcohol polyethoxylates .....	20	.....	*68439-50-9	.....	AEA/AEB/AED/AET/APV/APW

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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
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>					
Cetyl alcohol (Hexadecanol)	20		36653–82–4		
Oleyl alcohol (Octadecanol)	20		112–92–5		
Pentadecanol	20		629–76–5		
Tallow alcohol	20		99561–04–3		
Tetradecanol	20		112–72–1		
Tridecanol	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>					
Heptanes	31		142–82–5		
Hexanes	31		110–54–3		
Nonanes	31		111–84–2		
Octanes	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>					
Decanes	31		124–18–5		
Dodecanes	31		112–40–3		
Heptadecanes	31		629–78–7		
n-Paraffins (C10–C20)	31		* 124–18–5	PFN	ALJ
Tridecanes	31		629–50–5		
Undecanes	31		1120–21–4		
Alkane (C14–C17) sulfonic (alternately sulphonic) acid, sodium salt solutions, see Sodium alkyl (C14–C17) sulfonates (alternately sulphonates) (60–65% solution).			85711–69–9	AKA	SAA (AKE/SSU)
Alkaryl polyethers (C9–C20)	41			AKP.	
Alkenoic acid, polyhydroxy ester borated	0	1, 3		AAY.	
Alkenyl (C11+) amide	10			AKM.	
Alkenyl (C8+) amine, Alkenyl (C12+) acid ester mixture	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>					
Butylbenzenes	32	3	104–51–8		
Cumene	32		98–82–8		
Propylbenzenes	32		103–65–1		
Alkyl (C5–C8) benzenes	32		* 538–68–1	AKD.	
<i>Including:</i>					
Amylbenzenes	32		538–68–1		
Heptylbenzenes	32		2132–85–6		
Hexylbenzenes	32		1077–16–3		
Octylbenzenes	32		2189–60–8		
Alkyl (C9+) benzenes	32		* 1081–77–2	AKB.	
<i>Including:</i>					
Decylbenzenes	32		104–72–3		
Dodecylbenzenes	32		29986–57–0		
Nonylbenzenes	32		1081–77–2		
Tetradecylbenzenes	32		1459–10–5		
Tetrapropylbenzenes	32		635–11–0		
Tridecylbenzenes	32		123–02–4		
Undecylbenzenes	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	AES
Alkyl (C7–C9) nitrates	34	2	* 20633–12–9	AKN	ONE



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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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
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.	
<i>n</i> -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/AGN/AGO
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
<i>n</i> -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
tert-Amyl ethyl ether	41		919–94–8	AER.	
tert-Amyl methyl ether	41		994–05–8	AYE.	
Amyl methyl ketone, see Methyl amyl ketone			110–43–0	AMJ	MAK (AMK)
Amylene, see Pentene (all isomers)			109–67–1	AMW	PTX (AMX/AMZ/PTE)
tert-Amylenes, see Pentene (all isomers)			513–35–9	AMZ	PTX (AMW)

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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), see 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	BXM .....	IBT/BUT
Butane/Propane mixture .....	31	.....	.....	BUP .....	LPG
1,4-Butanediol, see Butylene glycol .....	.....	.....	110-63-4	BDO .....	BUG
2-Butanone, see Methyl ethyl ketone .....	.....	2	78-93-3	.....	MEK
Butene oligomer .....	30	.....	.....	BOL.	
Butene, see 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-), see Butyl alcohol (all isomers) .....	.....	2	71-36-3	.....	BAN/BAS/BAT/BAY/IAL
Butylamine (all isomers) .....	7	3	109-73-9	BTY .....	BAM/BTL/BUA/IAM
Butylbenzene (all isomers), see Alkyl (C3-C4) benzenes .....	.....	3	104-51-8	BBE .....	AKK
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.	
iso-Butyl formate, see Isobutyl formate .....	.....	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.	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Butyl methacrylate	14		97-88-1	BMH	BMI/BMN
<i>Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture, see Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture.</i>		3			DER (BMH/BMI/BMN/CEM)
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	14	3		DER	BMH/BMI/BMN/CEM
<i>Butyl methyl ketone, see Methyl butyl ketone</i>		2	591-78-6		MBJ (MBK/MIK)
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	BFA	IBR
gamma-Butyrolactone	0	1, 2	96-48-0	BLA.	
C9 Resinfeed (DSM)	32	2		CNR.	
Calcium alkaryl sulfonate (alternately sulphonate) (C11-C50), <i>see</i> Calcium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50).		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.	
Calcium bromide solution, <i>see</i> Drilling brines			7789-41-5	CBI	DRB
Calcium alkyl salicylate, <i>see</i> Calcium long-chain alkyl salicylate (C13+), Calcium long-chain alkyl (C18-C28) salicylate, or Calcium alkyl (C10-C28) salicylate.	34				CAJ/CAK/CAZ
Calcium bromide solution, <i>see</i> Drilling brines			7789-41-5	CBI	DRB
Calcium bromide/Zinc bromide solution, <i>see</i> Drilling brine (containing Zinc salts).					DZB
Calcium carbonate slurry	34		471-34-1	CSR.	
Calcium chloride solution, <i>see</i> Drilling brines			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
Calcium lignosulfonate (alternately lignosulphonate) solution, <i>see also</i> Lignin liquor.			8061-52-7	CLL	LNL
Calcium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50)	34		722503-69-7	CAY.	
Calcium long-chain alkyl (C8-C40) phenate, <i>see</i> Calcium long-chain alkyl (C5-C10) phenate or Calcium long-chain alkyl (C11-C40) phenate.				CAQ	CAU/CAV (CAN/CAW)
Calcium long-chain alkyl (C5-C10) phenate	34	3		CAU	CAN/CAQ/CAV/CAW
Calcium long-chain alkyl (C5-C20) phenate	34			CAV	CAN/CAQ/CAU/CAW
Calcium long-chain alkyl (C11-C40) phenate	34	3		CAW	CAN/CAQ/CAU/CAV
Calcium long-chain alkyl phenate sulfide (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	CFE.	
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)
Caprolactam solution, <i>see</i> epsilon-Caprolactam (molten or aqueous solutions).			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/CDO
Carbon dioxide, liquefied	0	1	124-38-9	CDO	CDH/CDQ
Carbon disulfide (alternately disulphide)	38		75-15-0	CBB.	
Carbon tetrachloride	36	2	56-23-5	CBT	CBU
<i>Cashew nut shell oil (untreated), see Oil, misc.: Cashew nut shell (untreated).</i>			8007-24-7		OCN
<i>Castor oil, see Oil, edible: Castor</i>	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.	
<i>Cetyl alcohol (Hexadecanol), see Alcohols (C13+)</i>			36653-82-4		ALY (ASY/AYL)
<i>Cetyl alcohol, see Alcohols (C13+)</i>			36653-82-4		ALY (ASY/AYL)
Cetyl/Eicosyl methacrylate mixture	14	1		CEM.	
<i>Cetyl/Stearyl alcohol, see Alcohols (C13+)</i>					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.	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Chloroacetic acid (80% or less)	4	3	79-11-8	CHM	CHL/MCA
Chlorobenzene	36	2	108-90-7	CRB	
<i>Chlorodifluoromethane</i> , 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	
<i>o</i> -Chloronitrobenzene	42		88-73-3	CNO	CNP
Chlorosulfonic (alternately Chlorosulphonic) acid	0	1	7790-94-5	CSA	
<i>m</i> -Chlorotoluene	36	3	108-41-8	CTM	CHI/CRN/CTO
<i>o</i> -Chlorotoluene	36	3	95-49-8	CTO	CHI/CRN/CTM
<i>p</i> -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	
<i>Coal tar distillate</i> , see Naphtha: Coal tar solvent			65996-91-0	CDL	NCT (CTU)
<i>Coal tar naphtha solvent</i> , 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	
<i>Cocoa butter</i> , see Oil, edible: Cocoa butter			8002-31-1		OCB (VEO)
<i>Coconut oil</i> , see Oil, edible: Coconut		2	8001-31-8		OCC (VEO)
<i>Coconut oil, fatty acid</i> , see Oil, misc.: Coconut fatty acid		2	61788-47-4		CFA
<i>Coconut oil, fatty acid methyl ester</i> , 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
<i>Corn oil</i> , see Oil, edible: Corn			8001-30-7		OCO (VEO)
Corn syrup	43		8029-43-4	CSY	
<i>Cottonseed oil</i> , see Oil, edible: Cottonseed			8001-29-4		OCS (VEO)
<i>Cottonseed oil, fatty acid</i> , 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/CSO/ CSO
<i>Cresols with 5% or more Phenol</i> , see Phenol				CFP	PHN (CFO/CRL/CRO/ CRS/CSO)
<i>Cresols with less than 5% Phenol</i> , see Cresols (all isomers)				CFO	CRS (CFP/CRL/CRO/ CSO)
<i>Cresylate spent caustic</i> , 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	
<i>Crude Isononylaldehyde</i> , see Isononylaldehyde (crude)			5435-64-3		INC
Crude Isopropanol	20		67-63-0		IPB (IPA/PAL)
<i>Crude Piperazine</i> , see Piperazine (crude)			110-85-0		PZC (PPZ/PIZ)
<i>Cumene</i> , see Alkyl (C3-C4) benzenes			98-82-8	CUM	AKD (PBY/PBZ)
1,5,9-Cyclododecatriene	30		4904-61-4	CYT	
Cycloheptane	31		291-64-5	CYE	
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	
<i>p</i> -Cymene	32		99-87-6	CMP	
Decahydronaphthalene	33		91-17-8	DHN	
Decaldehyde	19		112-31-2	DAY	IDA/DAL
<i>iso-Decaldehyde</i> , see Isodecaldehyde			3085-26-5		
<i>n</i> -Decaldehyde	19		3085-26-5		
<i>Decane</i> (all isomers), see n-Alkanes (C10+) (all isomers)			124-18-5	DCC	ALV (ALJ)
Decanoic acid	4		334-48-5	DCO	NEA
Decene	30		872-05-9	DCE	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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
Decylbenzene, see Alkyl (C9+) benzenes			104-72-3	DBZ	AKB
Decyloxytetrahydrothiophene dioxide	0	1	18760-44-6	DHT.	
Detergent alkylate	32		68442-97-7	DKY	AKB/DBZ/DDB/TDB/TRB/ UDB
<i>Dextrose solution, see Glucose solution</i>			50-99-7	DTS	GLU
Diacetone alcohol	20	2	123-42-2	DAA.	
Dialkyl (C10-C14) benzenes, see Alkyl (C9+) benzenes			* 55191-38-3	DAB	AKB
Dialkyl (C8-C9) diphenylamines	9		* 101-67-7	DAQ.	
Dialkyl (C7-C13) phthalates	34		* 3648-21-3	DAH.	
Including:					
Di-(2-ethylhexyl) phthalate	34		117-81-7		
Diheptyl phthalate	34		3648-21-3		
Dihexyl phthalate	34		84-75-3		
Diisooctyl phthalate	34		131-20-4		
Diisodecyl phthalate	34		89-16-7		
Diisononyl phthalate	34		28553-12-0		
Dinonyl phthalate	34		84-76-4		
Dioctyl phthalate	34		117-84-0		
Ditridecyl phthalate	34		119-06-2		
Diundecyl phthalate	34		3648-20-2		
Dialkyl (C9-C10) phthalates, see Dialkyl (C7-C13) phthalates			* 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.	
Dibutyl carbinol, see Nonyl alcohol (all isomers)			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	DCI.	
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/Trisopropanolamine 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
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
Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)			77-73-6	DPT	CPD (DPV)
Diethanolamine	8	2	111-42-2	DEA.	
Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 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.	
Diethylene glycol butyl ether, see Poly (2-8)alkylene glycol monoalkyl (C1-C6) ether.			112-34-5	DME	PAG
Diethylene glycol butyl ether acetate, see 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.	
Diethylene glycol ethyl ether, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether.			111-90-0	DGE	PAG
Diethylene glycol ethyl ether acetate, see Poly (2-8)alkylene glycol monoalkyl (C1-C6) ether acetate.			112-15-2	DGA	PAF

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Diethylene glycol n-hexyl ether, see Poly (2–8) alkylene glycol monoalkyl (C1–C6) ether.</i>			112–59–4	DHE	PAG
<i>Diethylene glycol methyl ether, see Poly (2–8) alkylene glycol monoalkyl (C1–C6) ether.</i>			111–77–3	DGM	PAG
<i>Diethylene glycol methyl ether acetate, see Poly (2–8) alkylene glycol monoalkyl (C1–C6) ether acetate.</i>			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 Poly (2–8)alkylene glycol monoalkyl (C1–C6) ether.</i>			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 Diethylaminoethanol</i>			100–37–8		DAE
Diethyl ether	8		60–29–7	EET.	
<i>Diethyl hexanol, see Decyl alcohol (all isomers)</i>			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 Dialkyl (C7–C13) phthalate</i>			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 Dialkyl (C7–C13) phthalate</i>			3648–21–3	DHP	DAH
Di-n-hexyl adipate	34		110–33–8	DHA.	
<i>Dihexyl phthalate, see Dialkyl (C7–C13) phthalate</i>			84–75–3	DHL.	
<i>Diisobutyl carbinol, see Nonyl alcohol (all isomers)</i>			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 Dialkyl (C7–C13) phthalates</i>			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 Dialkyl (C7–C13) phthalates</i>		2	28553–12–0	DIN	DAH
<i>Diisooctyl phthalate, see Dialkyl (C7–C13) phthalate</i>			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.	
Diisopropylnaphthalene	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 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution.</i>			2039–46–5		CDM
<i>Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less).</i>			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
<i>Dimethylbenzene, see Xylenes</i>		2	1330–20–7		XLX/XLM/XLO/XLP
Dimethylcyclohexane 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>			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.	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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/DBV
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, see Dodecene (all isomers)	30			DDC	DOZ
<i>Dodecanol (all isomers), see Dodecyl alcohol (all isomers)</i>		2	112-53-8	DDN	LAL
2-Dodeceny succinic 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 Dodecylbenzenesulphonic) 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	DOM	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) (if flammable or combustible)	33			DRO	DRM/DRN/DRP
Drilling mud (low toxicity) (if non-flammable or non-combustible)	43			DRP	DRM/DRN/DRO
Epichlorohydrin	17		106-89-8	EPC.	
Epoxy resin	16			EPN.	
<i>ETBE, see Ethyl tert-butyl ether</i>			637-92-3		EBE
Ethane	31		74-84-0	ETH.	
Ethanolamine	8		141-43-5	MEA.	
<i>2-Ethoxyethanol, see Ethylene glycol monoalkyl ethers</i>			110-80-5	EEO	EGC (EGE)
2-Ethoxyethyl acetate	34	2	111-15-9	EEA	EGA
Ethoxylated alkyloxy alkyl amine	8		68155-39-5	ELM.	
<i>Ethoxylated alcohols, C11-C15, see alcohol polyethoxylates</i>			9002-92-0		AEA/AEB/AED/AET/APV/APW/APX
Ethoxylated long-chain (C16+) alkyloxyalkylamine	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, see Poly (2-8)alkylene glycol monoalkyl (C1-C6) ether</i>			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.	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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.	
Ethylene glycol butyl ether, see Ethylene glycol monoalkyl ethers			111-76-2	EGM	EGC
Ethylene glycol tert-butyl ether, 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.	
Ethylene glycol ethyl ether, see Ethyl glycol monoalkyl ethers			110-80-5	EGE	EGC/EEO
Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate		2	111-15-9	EGA	EEA
Ethylene glycol hexyl ether, see Ethylene glycol monoalkyl ethers			112-25-4	EGH	EGC
Ethylene glycol isobutyl ether, see Ethylene glycol monoalkyl ethers			224-658-5		EGC (EGG/EGM)
Ethylene glycol isopropyl ether, see Ethylene glycol monoalkyl ethers			109-59-1	EGI	EGC
Ethylene glycol methyl butyl ether, see Ethylene glycol monoalkyl ethers			13343-98-1	EMB	EGC
Ethylene glycol methyl ether, 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:					
Ethylene glycol butyl ether	40		111-76-2		
Ethylene glycol tert-butyl ether	40		7580-85-0		
Ethylene glycol ethyl ether	40		111-15-9		
Ethylene glycol hexyl ether	40		112-25-4		
Ethylene glycol isobutyl ether	40		224-658-5		
Ethylene glycol isopropyl ether	40		109-59-1		
Ethylene glycol methyl ether	40		109-86-4		
Ethylene glycol methyl butyl ether	40		13343-98-1		
Ethylene glycol propyl ether	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.	
Ethylene glycol propyl ether, see Ethylene glycol monoalkyl ethers			2807-30-9	EGP	EGC/EGI/EGN
Ethylene glycol n-propyl ether, 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.	
Ethyl ether, see Diethyl ether			60-29-7		EET
Ethyl-3-ethoxypropionate	34		763-69-9	EET.	
2-Ethylhexaldehyde, see Octyl aldehydes			123-05-7	EHA	OAL (OLX)
2-Ethylhexanoic acid, see Octanoic acid (all isomers)			149-57-5	EHO	OAY (OAA)
2-Ethylhexanol, see 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+), see 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.	
Fish oil, see Oil, edible: Fish		2	8016-13-5		OFS (AFN)



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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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</i> (alternately <i>sulphuric</i> ) acid, <i>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</i> , <i>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)</i> , <i>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</i> , <i>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</i> , <i>see</i> Glycidyl ester of C10 trialkyl acetic acid.				GLT	GLU
<i>Glycidyl ester of tridecyl acetic acid</i> , <i>see</i> Glycidyl ester of C10 trialkyl acetic acid.				GLT	GLU
<i>Glycidyl ester of Versatic acid</i> , <i>see</i> Glycidyl ester of C10 trialkyl acetic acid				GLT	GLU
Glycine, sodium salt solution	7		56–40–6	GSS.	
<i>Glycol diacetate</i> , <i>see</i> Ethylene glycol diacetate			111–55–7		EGY
Glycol mixture, crude	20		107–21–1	GMC.	
<i>Glycol triacetate</i> , <i>see</i> 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> , <i>see</i> Oil, edible: Grape seed			8024–22–4		
<i>Groundnut oil</i> , <i>see</i> Oil, edible: Groundnut			8002–03–7		OGN (VEO)
<i>Hazelnut oil</i> , <i>see</i> Oil, edible: Hazelnut			84012–21–5		OHN (VEO)
<i>Heptadecane (all isomers)</i> , <i>see</i> n-Alkanes (C10+) (all isomers)			629–78–7		ALV (ALJ)
<i>Heptane (all isomers)</i> , <i>see</i> 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> , <i>see</i> Alkyl (C5–C8) benzenes			1078–71–3		AKD
<i>Herbicide (C15–H22–NO2–Cl)</i> , <i>see</i> Metolachlor			51218–45–2		MCO
<i>Hexadecanol (Cetyl alcohol)</i> , <i>see</i> 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> , <i>see</i> 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	HAM	HAN
Hexamethylenediamine adipate solution	43		15511–81–6	HAN	HAM

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Hexamethylenediamine solution	7		124-09-4	HMC	HMD/HME
Hexamethyleneimine	7		111-49-9	HMI	
Hexamethylenetetramine solutions	7		100-97-0	HTS	HMT
Hexane (all isomers), 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	
Hexylbenzenes, see Alkyl (C5–C8) benzenes			1077-16-3		AKD
Hexylene glycol, see Hexamethylene glycol			107-41-5	HXG	HMG
Hog grease, see Lard			61789-99-9		LRD
Hydrochloric acid	1		7647-01-0	HCL	
Hydrofluorosilicic acid (25% or less), 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	
Hydroxyl terminated polybutadiene, see Polybutadiene, hydroxyl terminated			69102-90-5		PHT
alpha-Hydro-omega-hydroxytetradeca(oxytetramethylene)	40			HTO	PYS/PYT
Illipe oil, 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
Isodecaldehyde	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/IPQ/PRA
Isopropylbenzene, see Alkyl (C3–C4) benzenes			98-82-8		AKC(CUM/PBY/PBZ)
Isopropylcyclohexane	31	3	696-29-7	IPX.	
Isopropyl ether	41	3	108-20-3	IPE	PRL/PRN
Jatropha oil, see Oil, misc.: Jatropha			88-6-7		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/suspension	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.	
Lauryl polyglucose, see Alkyl (C12–C14) polyglucoside solution (55% or less).			59122-55-3		AGM/LAP
Lauryl polyglucose (50% or less), see Alkyl (C12–C14) polyglucoside solution (55% or less).			59122-55-3	LAP	AMG
Lecithin	34		8002-43-5	LEC.	
Lignin liquor	43		9005-53-2	LNL	ALG/CLL/LGA/LGM/LSL/SHC/SHQ/SLP
Ligninsulfonic (alternately Ligninsulphonic) acid, magnesium salt solution	43	3	9009-75-0	LGM	LGA/LNL/LSL
Ligninsulfonic (alternately Ligninsulphonic) acid, sodium salt solution, see Lignin liquor or Sodium lignosulfonate (alternately lignosulphonate) solution.			8061-51-6	LGA	LNL or SLG
d-Limonene, see Dipentene			5989-27-5		DPN

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Linear alkyl (C12–C16) propoxyamine ethoxylate	8		68213–26–3	LPE.	
Linseed oil, see Oil, misc.: Linseed			8001–26–1		OLS
Liquefied Natural Gas, see Methane			74–82–8	LNQ	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 MPS
Magnesium nonyl phenol sulfide (alternately sulphide), see Magnesium long-chain alkyl phenate sulfide (alternately sulphide) (C8–C20).					
Magnesium sulfonate (alternately sulphonate), see Magnesium long-chain alkaryl sulfonate (alternately sulphonate) (C11–C50).			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.	
Mango kernel oil, see Oil, edible: Mango kernel			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—Alkoxy poly(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.	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide, see Metolachlor.	34		51218–45		MCO
1-Methoxy-2-propyl acetate	34		108–65–6	MXP.	
Methoxy triglycol, see 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.	
Methyl butanol, see the Amyl alcohols			71–41–0		AAI/AAL/AAN/APM/ASE/ IAA PTX (AMW/AMZ/PTE)
Methyl butenes, see Pentene (all isomers)			109–67–1		
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 MCT
Methylcyclopentadienyl manganese tricarbonyl (60–70%) in mineral oil	0	1	12108–13–3	MCW	MAB
Methyl diethanolamine	8		105–59–9	MDE	
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	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

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Methyl heptyl ketone	18		821-55-6	MHK.	
2-Methyl-2-hydroxy-3-butyne	20		115-19-5	MHB	MBY
Methyl isoamyl ketone, see Methyl amyl ketone			110-12-0	MAJ	MAK
Methyl isobutyl carbinol, see 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.	
Methylene chloride, see 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.	
2-Methyl pentane, see Hexane (all isomers)			107-83-5		HXS (ALK/HXA/IHA/NHX)
2-Methyl-1,5-pentanediamine	7		15520-10-2	MPM.	
2-Methyl-1-pentene, see Hexene (all isomers)			763-29-1	MPN	HEX (HXE/HXT/HXU/HXV/ MTN)
4-Methyl-1-pentene, see Hexene (all isomers)			691-37-2	MTN	HEX (HXE/HXT/HXU/HXV/ MPN)
Methyl tert-pentyl ether, see 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.	
Methylpyridine, see the 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
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.	
Monoethanolamine, see Ethanolamine			141-43-5	MEA.	
Monoethylamine, see Ethylamine			75-04-7		EAM (EAN/EAO)
Monoisopropanolamine, see Isopropanolamine			78-96-6		MPA (PLA/PLX)
Morpholine	7	2	110-91-8	MPL.	
Motor fuel anti-knock compound (containing lead alkyls)	0	1		MFA.	
MTBE, see Methyl tert-butyl ether			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
Nitric Acid, fuming, see Nitric acid (70% and over)		1, 2, 3	7697-37-2		NCE
Nitric Acid, red fuming, see Nitric acid (70% and over)		1, 2, 3	52583-42-3		NCE
Nitrioltriacetic acid, trisodium salt solution	34	3	139-13-9	NCA.	
Nitrobenzene	42		98-95-3	NTB.	
o-Nitrochlorobenzene, see o-Chloronitrobenzene			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.	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Nitrophenol (mixed isomers)	42		88-75-5	NPX	NIP/NPH
o-Nitrophenol (molten)	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
o- or p-Nitrotoluenes	42	3	99-99-0	NIT	NIE/NTR/NTT
Nonane (all isomers), see Alkanes (C6-C9)			111-84-2	NAX	ALK (NAN)
Nonanoic acid (all isomers)	4		112-05-0	NNA	NAI/NIN
Nonanoic/Tridecanoic acid mixture	4			NAT	NAI/NIN/NAA
Non-edible industrial grade palm oil, see Oil, misc.: Palm, non-edible industrial grade.			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
Nonylbenzene, see Alkyl (C9+) benzenes			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	
Nonyl phenol poly(4+)ethoxylate, see Alkyl (C7-C11) phenol poly(4-12) ethoxylate.			9016-45-9	NPE	APN
Nonyl phenol sulfide (alternately sulphide) (90% or less) solution, see Alkyl (C8-C40) phenol sulfide (alternately sulphide).			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			
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	
Nutmeg butter oil, see Oil, edible: Nutmeg butter					ONB (VEO)
1-Octadecene, see the olefin or alpha-olefin entries			112-88-9		OAM/OFZ
1-Octadecanol, see Stearyl alcohol			112-92-5		SYL (ALY/ASY)
Octadecenoamide solution	10		3322-62-1	ODD	
Octadecanol (oleyl alcohol), see Alcohols (C13+)			143-28-2		ALY (AYL/ASY/OYL)
Octamethylcyclotetrasiloxane	34	3	556-67-2	OSA	
Octane (all isomers), see Alkanes (C6-C9)			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/OFX/OFY/OFW/OTE
n-Octyl acetate	34		112-14-1	OAF	OAE
Octyl alcohol, see Octanol (all isomers)			111-87-5		OCX (EHX/OA/OTA)
Octyl aldehydes	19		124-13-0	OAL	EHA/IOC/OLX
Octylbenzenes, see Alkyl (C5-C8) benzenes			2189-60-8		AKD
Octyl decyl adipate	34		110-29-2	ODA	
n-Octyl mercaptan	0		111-88-6	OME	
Octyl nitrates (all isomers), see Alkyl (C7-C9) nitrates			629-39-0	ONE	AKN
Octyl phenol	21		27193-28-8	OPH	
Octyl phthalate, see Dioctyl phthalate			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

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Illipe .....	34		91770-65-9	ILO .....	VEO
Lard .....	34		61789-99-9	OLD .....	AFN
Maize, see Oil, edible: Corn .....			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
Sunflower, see Oil, edible: Sunflower seed .....			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:					
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	OCI .....	
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 .....	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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/OFX/OFW/OFX/OFZ
Olefin mixtures (C5-C15)	30	3	25264-93-1	OFY	OAM/OFX/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
<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>		3	68440-15-3		PLM
<i>Palm fatty acid distillate, see Oil, misc.: Palm fatty acid distillate</i>		3			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>		3	93334-39-5		PKO (VEO)
<i>Palm kernel stearin, see Oil, edible: Palm kernel stearin</i>		3			PKS (VEO)
<i>Palm mid fraction, see Oil, edible: Palm mid fraction</i>		3	91079-14-0		PFM (VEO)
<i>Palm oil, see Oil, edible: Palm</i>		2, 3	8002-75-3	OPM	VEO/OPE
<i>Palm oil fatty acid methyl ester, see Oil, misc.: Palm fatty acid methyl ester</i>		3			OPE
<i>Palm olein, see Oil, edible: Palm olein</i>		3	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>		3	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.	
Pentacosyl (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.	
n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture	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.	
n-Pentyl propionate	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

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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[ethylenenitrilobis (methylene)]]	3			PES.	
tetrakisphosphonic acid, ammonium salt solution (60% or less)					
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</i> , see Poly (4+)isobutylene (molecular weight >224).			9003-27-4		
alpha-Pinene	30		7785-26-4	PIO	PIB/PIN
beta-Pinene	30		127-91	PIP	PIN/PIO
<i>Pine oil</i> , see Oil, misc.: Pine			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</i> , see Poly (2-8)alkylene glycol monoalkyl (C1-C6) ether.				PGB	PAG
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether	40	2		PAG.	
<i>Including:</i>					
<i>Diethylene glycol butyl ether</i>	40		112-34-5		
<i>Diethylene glycol ethyl ether</i>	40		111-90-0		
<i>Diethylene glycol n-hexyl ether</i>	40		112-59-4		
<i>Diethylene glycol methyl ether</i>	40		111-77-3		
<i>Diethylene glycol propyl ether</i>	40		6881-94-3		
<i>Dipropylene glycol butyl ether</i>	40		112-34-5		
<i>Dipropylene glycol methyl ether</i>	40		34590-94-8		
<i>Polyalkylene glycol butyl ether</i>	40		111-76-2		
<i>Polyethylene glycol monoalkyl ether</i>	40		111-80-5		
<i>Polypropylene glycol methyl ether</i>	40		34590-94-8		
<i>Tetraethylene glycol methyl ether</i>	40		23783-42-8		
<i>Triethylene glycol butyl ether</i>	40		143-22-6		
<i>Triethylene glycol ethyl ether</i>	40		112-50-5		
<i>Triethylene glycol methyl ether</i>	40		112-35-6		
<i>Tripropylene glycol methyl ether</i>	40		25498-49-1		
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	34			PAF.	
<i>Including:</i>					
<i>Diethylene glycol butyl ether acetate</i>	34		124-17-4		
<i>Diethylene glycol ethyl ether acetate</i>	34		112-15-2		
<i>Diethylene glycol methyl ether acetate</i>	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.	
<i>Polycarboxylic ester (C9+)</i> , see Ditridecyl adipate			16958-92-2		DTY
Poly (2+)cyclic aromatics	32		91-20-3	PCA.	
<i>Polydimethylsiloxane</i> , 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.	
<i>Polyethylene glycol monoalkyl ether</i> , 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



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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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.	
Polyolefinamine (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.	
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) OPY (VEO)
Poppy, see Oil, edible: Poppy					PCD/PSD
Potassium chloride solution	43		7447–40–7	PCU	PCD/PCU
Potassium chloride solution (10% or more)	43		7447–40–7	PCS	CLM/DRL/PCS/PCU
Potassium chloride solution (less than 26%)	43		7447–40–7	PSD	
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

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether</i> .....			1569-02-4	PGY .....	PGE
<i>Propylene glycol methyl ether, see Propylene glycol monoalkyl ether</i> .....		2	107-98-2	PME .....	PGE
Propylene glycol methyl ether acetate .....	34	2	108-65-6	PGN .....	
Propylene glycol monoalkyl ether .....	40			PGE.	
Including:					
<i>n</i> -Propoxypropanol .....	40		30136-13-1		
Propylene glycol <i>n</i> -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, <i>see Propylene glycol monoalkyl ether</i> .....			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.	
<i>Pseudocumene, see Trimethylbenzene (all isomers)</i> .....			95-63-6		TMB/TMD/TME/TRE
Pyridine .....	9		110-86-1	PRD.	
<i>Pyridine bases, see Paraldehyde-Ammonia reaction product</i> .....					PRB
Pyrolysis gasoline (containing Benzene) .....	32	3	68477-58-7	PYG .....	GPY
<i>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).</i>		3	8002-13-9		ORO (VEO)
<i>Rapeseed oil fatty acid methyl esters, see Oil, misc.: Rapeseed fatty acid methyl esters.</i>		3	73891-99-3		RSO
<i>Rapeseed oil, see Oil, edible: Rapeseed</i> .....			8002-13-9		ORO (VEO)
Refrigerant gases .....	0	1		RFG.	
<i>Resin oil, distilled, see Oil, misc.: Resin, distilled</i> .....		3			ORR (ORS)
<i>Rice bran oil, see Oil, edible: Rice bran</i> .....			68553-81-1		ORB
Rosin soap (disproportionated) solution .....	43		61790-50-9	RSP.	
<i>Rosin, see Oil, misc.: Rosin</i> .....			8050-09-7		ORN
<i>Rum, see Alcoholic beverages, n.o.s</i> .....			64-17-5		ABV
<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 hydroxide 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.	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
Sodium poly (4+)acrylate solution	43	2	9003-04-7	SOP	SOO
Sodium polyacrylate solution	43	2	9003-04-7	SOO	SOP
Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.			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)/Hydrosulfide (15% or less)	43		1313-82-2	SDR	SDS
Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H <sub>2</sub> S 15 ppm or less).	0	1, 2		SSH	SDS/SHR/SSI/SSJ
Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H <sub>2</sub> 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 <sub>2</sub> 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
Soyabean fatty acid methyl ester, see Oil, misc.: Soyabean fatty acid methyl ester.			67784-80-9		OST
Soyabean oil (epoxidized)	34		8013-07-8		OSC/EVO
Soyabean oil, see Oil, edible: Soyabean		2	8001-22-7		OSB (VEO)
Stearic acid, see Fatty acids (saturated, C13+)			57-11-4	SRA	FAD (FAB/FAE/FDI/FDT)
Stearyl alcohol	20		112-92-5	SYL	ALY/ASY
Stoddard solvent, 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.	
Sunflower seed oil, see Oil, edible: Sunflowerseed	34		8001-21-6		OSN (VEO)
Sym-trichlorobenzene, see 1,2,4-Trichlorobenzene.			108-70-3		
Tall oil, see Oil, misc.: Tall			8002-26-4		OTL (OTI/OTJ)
Tall oil, crude, see Oil, misc.: Tall, crude		2, 3	8002-26-4		OTI (OTJ/OTL)
Tall oil, distilled, see Oil, misc.: Tall, distilled		3	8002-26-4		OTJ (OTI/OTL)
Tall oil, fatty acid, see Oil, misc.: Tall fatty acid		2	61790-12-3		OTT
Tall oil fatty acid (resin acids less than 20%), see Oil, misc.: Tall oil fatty acid (resin less than 20%).		2			OTK (OTT)
Tall oil fatty acid, barium salt	0	1, 2		TOB.	
Tall oil pitch, 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.	
Tallow alcohol, see Alcohols (C13+)		2	67762-27-0	TFA	ALY (ASY)
Tallow alkyl nitrile	37			TAN.	
Tallow fatty acid	34	2	61790-37-2	TFD.	
Tallow fatty alcohol, see Alcohols (C13+)		2	67762-27-0	TFA	ALY
TAME, see tert-Amyl methyl ether			994-05-8		AYE
Tertiary butylphenols	21		128-39-2	BLT	BTP
Tetrachloroethane	36		79-34-5	TEC.	
1,1,2,2-Tetrachloroethane, see Tetrachloroethane	36		79-34-5	TEC	TEE
Tetradecanol, see Alcohols (C13+)			112-72-1	TTN	ALY
Tetradecene, see olefins or alpha-olefin entries			1120-36-1		OAM/OFY/OFW/OFZ/TDD
Tetradecylbenzene, 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.	
Tetraethylene glycol methyl ether, 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
1,2,3,5-Tetramethylbenzene, see Tetramethylbenzene (all isomers)			527-53-7	TTB	TTC
Tetrapropylbenzene, see Alkyl (C9+) benzenes					AKB
Tetrasodium salt of ethylenediaminetetraacetic acid solution, 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

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
<i>Triarylphosphate, see</i> 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, see</i> 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), see</i> n-Alkanes (C10+) (all isomers)			629–50–5	TRD	ALV (ALJ)
Tridecanoic acid	34		638–53–9	TDO.	
<i>Tridecanol, see</i> Alcohols (C13+)			112–70–9	TDN	ALY (ASK/ASY/AYK/LAL)
<i>Tridecene, see</i> Olefins (C13+ all isomers)			2437–56–1	TRD	OAM/OFY/OFW/OFZ/TDC
Tridecyl acetate	34		1072–33–9	TAE.	
<i>Tridecylbenzene, see</i> Alkyl (C9+) benzenes			123–02–4	TRB	AKB
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</i> Poly (2–8)alkylene glycol monoalkyl (C1–C6) ether.			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</i> Poly (2–8)alkylene glycol monoalkyl (C1–C6) ether.			112–50–5	TGE	PAG
<i>Triethylene glycol methyl ether, see</i> Poly (2–8)alkylene glycol monoalkyl (C1–C6) ether.			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</i> 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution.					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</i> Dodecyl alcohol			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</i> Propylene trimer			13987–01–4		PTR
Tripropylene glycol	40		24800–44–0	TGC.	
<i>Tripropylene glycol methyl ether, see</i> Poly (2–8) alkylene glycol monoalkyl (C1–C6) ether.			25498–49–1	TGM	PAG
<i>Trisodium nitrilotriacetate solution, see</i> Nitrilotriacetic acid, trisodium salt solution.			5064–31–3	TSO	NCA (TSN)
Trisodium phosphate solution	5		10101–89–0	TSP.	
<i>Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see</i> N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution.			207386–87–6		HET
Trixylyl phosphate	34		25155–23–1		TRP
<i>Trixylyl phosphate, see</i> Trixylyl phosphate			25155–23–1		TRP
<i>Tung oil, see</i> Oil, misc.: Tung			8001–20–5		OTG
Turpentine	30		9005–90–7	TPT.	
<i>Turpentine substitute, see</i> White spirit (low (15–20%) aromatic)			8052–41–13		WSL (WSP)
<i>Undecane (all isomers), see</i> Alkanes (C10+) (all isomers)			1120–21–4	UDN	ALV (ALJ)
Undecanoic acid	4		112–37–8	UDA.	
<i>Undecanol, see</i> Undecyl alcohol			112–42–5		UND (ALR)
Undecene	30		1120–21–4	UDD	UDC
1-Undecene	30		821–95–4	UDC	UDD
Undecyl alcohol	20		112–42–5	UND	ALR
<i>Undecylbenzene, see</i> Alkyl (C9+) benzenes			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

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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:					
Corn acid oil	34		68308-50-9		
Cottonseed acid oil	34		68308-51-0		
Dark mixed acid oil	34				
Groundnut acid oil	34				
Mixed acid oil	34				
Mixed general acid oil	34				
Mixed hard acid oil	34				
Mixed soft acid oil	34				
Rapeseed acid oil	34		112-86-7		
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.	

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

Chemical name	Group No.	Footnote	CAS No.	CHRIS code	Related CHRIS codes
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.	
<i>Including:</i>					
<i>Candelilla</i> .....	34		8006-44-8	WCD.	
<i>Carnauba</i> .....	34		8015-86-9	WCA.	
<i>Hydrocarbon</i> .....	31			WHC .....	WPF
<i>Paraffin</i> .....	31		8002-74-2	WPF.	
<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 .....	XML/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:**

*Italicized* words are not part of the cargo name but may be used in addition to the cargo name.  
 CAS numbers marked with an asterisk (\*) represent the CAS number of the lowest member in the homologous series.  
 Not all chemicals have been assigned CAS numbers. These cells are left blank in the CAS Number column.

**Footnotes:**

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).

■ 5. Revise Table 2 to Part 150 to read as follows:

TABLE 2 TO PART 150—GROUPING OF CARGOES

Group	Cargo
0. Unassigned Cargoes ..	Acetone cyanohydrin. Alkenoic acid, polyhydroxy ester borated. Alkylbenzene distillation bottoms. Alkyl (C8–C10)/(C12–C14):(60% or more/40% or less). Alkyl (C11–C17) benzene sulfonic (alternately sulphonic) acid. Alkylbenzene sulfonic (alternately sulphonic) acid (less than 4%). <sup>1</sup> Alkyl (C18–C28) toluenesulfonic (alternately toluenesulphonic) acid. Aluminum (alternately Aluminium) chloride/Hydrogen chloride solution. Ammonium hydrogen phosphate solution. Ammonium nitrate solution (45% or less). Ammonium nitrate solution (93% or less). Ammonium thiocyanate/Ammonium thiosulfate (alternately thiosulphate) solution. Argon, liquefied. Benzenesulfonyl (alternately Benzenesulphonyl) chloride. <sup>1</sup> gamma-Butyrolactone. <sup>1</sup> Carbon dioxide (high purity). Carbon dioxide (reclaimed quality). Carbon dioxide, liquefied. Chlorine. 2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution. Chlorosulfonic (alternately Chlorosulphonic) acid. Decyloxytetrahydro-thiophene dioxide. 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (70% or less). <sup>1</sup> Dimethyl disulfide (alternately disulphide). Diphenylol propane-Epichlorohydrin resins. Disulfide (alternately Disulphide). Dodecyl hydroxypropyl sulfide (alternately sulphide). <sup>1</sup> Dodecyl benzenesulfonic (alternately Dodecyl benzenesulphonic) acid. <sup>1</sup> Ethylene oxide. Hydrogen peroxide solutions (over 60% but not more than 70% by mass). Hydrogen peroxide solutions (over 8% but not more than 60% by mass).

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	<p>Hydrogenated starch hydrolysate. Lactic acid.<sup>1</sup> Liquid chemical wastes. Long-chain alkaryl sulfonic (alternately sulphonic) acid (C16–C60).<sup>1</sup> Magnesium chloride solution.<sup>1</sup> Maltitol solution. Methylcyclopentadienyl manganese tricarbonyl. Methylcyclopentadienyl manganese tricarbonyl (60–70%) in mineral oil. Molasses residue (from fermentation). Molybdenum polysulfide (alternately polysulphide) long-chain alkyl dithiocarbamide complex. Motor fuel anti-knock compound (containing lead alkyls). Naphthalene sulfonic (alternately sulphonic) acid-formaldehyde copolymer, sodium salt solution. Nitrating acid (mixture of Sulfuric (alternately Sulphuric) and Nitric acids). Nitric acid (70% and over).<sup>1</sup> Nitric acid fuming. Nitric acid red fuming. Nitrogen. o-Nitrophenol (molten).<sup>1</sup> Noxious Liquid Substance, NF, (1) n.o.s. (“trade name” contains “principal components”) Cat X. Noxious Liquid Substance, F, (2) n.o.s. (“trade name” contains “principal components”) Cat X. Noxious Liquid Substance, NF, (3) n.o.s. (“trade name” contains “principal components”) Cat X. Noxious Liquid Substance, F, (4) n.o.s. (“trade name” contains “principal components”) Cat X. Noxious Liquid Substance, NF, (5) n.o.s. (“trade name” contains “principal components”) Cat Y. Noxious Liquid Substance, F, (6) n.o.s. (“trade name” contains “principal components”) Cat Y. Noxious Liquid Substance, NF, (7) n.o.s. (“trade name” contains “principal components”) Cat Y. Noxious Liquid Substance, F, (8) n.o.s. (“trade name” contains “principal components”) Cat Y. Noxious Liquid Substance, NF, (9) n.o.s. (“trade name” contains “principal components”) Cat Z. Noxious Liquid Substance, F, (10) n.o.s. (“trade name” contains “principal components”) Cat Z. Noxious Liquid Substance, (11) n.o.s. (“trade name” contains “principal components”) Cat Z. Non-noxious Liquid Substance, (12) n.o.s. (“trade name” contains “principal components”) Cat OS. n-Octyl Mercaptan. Offshore contaminated bulk liquid P (Pollution-only products). Offshore contaminated bulk liquid S (Safety hazard products). Oleum.<sup>1</sup> Orange juice (concentrated). Orange juice (not concentrated). Oxygenated aliphatic hydrocarbon mixture. Phosphorus, yellow or white. Phosphosulfurized (alternately Phosphosulphurized) bicycle terpene. Phthalate-based polyester polyol.<sup>1</sup> Polyalkylalkenaminesuccinimide, molybdenum oxysulfide. Potassium polysulfide (alternately polysulphide), Potassium thiosulfide (alternately thiosulphide) solution (41% or less). 2-Propene-1-amium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer solution. Refrigerant gases. Sodium chlorate solution (50% or less).<sup>1</sup> Sodium dichromate solution (70% or less).<sup>1</sup> Sodium hydrogen sulfide (alternately sulphide) (6% or less)/Sodium carbonate (3% or less) solution.<sup>1</sup> Sodium methoxide (25% in methanol). Sodium methylate (21–30% in methanol). Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H<sub>2</sub>S 15 ppm or less). Sodium sulfide (alternately sulphide), Hydrosulfide (alternately Hydrosulphide) solution (H<sub>2</sub>S greater than 15 ppm but less than 200 ppm).<sup>1</sup> Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H<sub>2</sub>S greater than 200 ppm). Sodium thiocyanate solution (56% or less).<sup>1</sup> Sulfur (alternately Sulphur) (molten). Sulfur (alternately Sulphur) dioxide. Tall oil fatty acid, barium salt.<sup>1</sup> Tetraethyl silicate monomer/oligomer (20% in ethanol). Urea, Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution. Wood lignin with Sodium acetate/oxalate.</p>
1. Non-Oxidizing Mineral Acids.	<p>Di-(2-ethylhexyl) phosphoric acid. Ferric chloride solution. Fluorosilicic acid (20–30%) in water solution. Fluorosilicic acid (30% or less). Hydrochloric acid. Hydrofluorosilicic acid (25% or less). Phosphoric acid.</p>
2. Sulfuric (Alternately Sulphuric) Acids.	<p>Polyaluminum (alternately Polyaluminium) chloride solution. Sulfuric (alternately Sulphuric) acid.<sup>1</sup> Sulfuric (alternately sulphuric) acid, spent. Titanium tetrachloride.</p>

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
3. Nitric Acids .....	Ferric nitrate/Nitric acid solution. Nitric acid (70% or less).
4. Organic Acids .....	Acetic acid. <sup>1</sup> Acetic acid. <sup>1</sup> Butyric acid. Chloroacetic acid (80% or less). 2- or 3-Chloropropionic acid. Citric acid (70% or less). Decanoic acid. 2,2-Dichloropropionic acid. Dimethyl octanoic acid. Fish protein concentrate (containing 4% or less formic acid). Fish silage protein concentrate (containing 4% or less formic acid). Formic acid. <sup>1</sup> Formic acid (85% or less). Formic acid (over 85%). Formic acid mixture (containing up to 18% Propionic acid and up to 25% Sodium formate). Glycolic acid (70% or less). Glyoxylic acid solution (50% or less). n-Heptanoic acid. 1,6-Hexanediol, distillation overheads. Hexanoic acid. 2-Hydroxy-4-(methylthio)butanoic acid. Jatropha oil. Long-chain alkyl (C13+) salicylic acid. Methacrylic acid. Naphthenic acid. Neodecanoic acid. Nonanoic acid (all isomers). Nonanoic/Tridecanoic acid mixture. Octanoic acid (all isomers). Oleic acid. Pentanoic acid. n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture. Propionic acid. Trimethylacetic acid. Undecanoic acid.
5. Caustics .....	Aluminum (alternately Aluminium) hydroxide/sodium hydroxide/sodium carbonate solution (40% or less). Ammonium sulfide (alternately sulphide) solution (45% or less). Calcium hydroxide slurry. Calcium hypochlorite solution (15% or less). Calcium hypochlorite solution (more than 15%). Caustic potash solution. <sup>1</sup> Caustic soda solution. <sup>1</sup> Cresylic acid, sodium salt solution. 1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution. Kraft black liquor. Kraft pulping liquors (free alkali content 3% or more) (Black, Green, or White). Magnesium hydroxide slurry. Mercaptobenzothiazol, sodium salt solution. 2-Mercaptobenzothiazol (in liquid mixture). Potassium hydroxide solution. <sup>1</sup> Sodium acetate, Glycol, Water mixture (containing 1% or less Sodium hydroxide) (if non-flammable or non-combustible). Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide). Sodium aluminate solution. Sodium aluminate solution (45% or less). Sodium borohydride (15% or less)/Sodium hydroxide solution. Sodium carbonate solutions. Sodium cyanide solution. Sodium hydrosulfide (alternately hydrosulphide) solution (45% or less). <sup>1</sup> Sodium hydrosulfide (alternately hydrosulphide)/Ammonium sulfide (alternately sulphide) solution. <sup>1</sup> Sodium hypochlorite solution (15% or less). Sodium hypochlorite solution (20% or less). Sodium 2-mercaptobenzothiazol solution. Sodium nitrite solution. Triphenylborane (10% or less)/Caustic soda solution. Trisodium phosphate solution. Vanillin black liquor (free alkali content 3% or more).
6. Ammonia .....	Ammonia, anhydrous. Ammonium hydroxide (28% or less Ammonia). Urea/Ammonium nitrate solution (containing 1% or more Ammonia).



TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
7. Aliphatic Amines .....	Alkyl amine (C17+). Alkyl (C12+) dimethylamine. N-Aminoethylpiperazine. Butylamine (all isomers). Crude piperazine. Cyclohexylamine. Dibutylamine. Diethylamine. <sup>1</sup> Diethylenetriamine. <sup>1</sup> Diisobutylamine. Diisopropylamine. Dimethylamine. Dimethylamine solution (45% or less). Dimethylamine solution (greater than 45% but not greater than 55%). Dimethylamine solution (greater than 55% but not greater than 65%). N,N-Dimethylcyclohexylamine. N,N-Dimethyldodecylamine. Di-n-propylamine. Dodecylamine/Tetradecylamine mixture. Dodecyldimethylamine/Tetradecyldimethylamine mixture. Ethoxylated tallow alkyl amine. Ethoxylated tallow alkyl amine, glycol mixture. Ethoxylated tallow amine (>95%). Ethylamine. <sup>1</sup> Ethylamine solution (72% or less). N-Ethylbutylamine. N-Ethylcyclohexylamine. Ethyleneamine EA 1302. <sup>1</sup> Ethylenediamine. <sup>1</sup> 2-Ethylhexylamine. N-Ethylmethylallylamine. Glycine, sodium salt solution. Glyphosate solution (not containing surfactant). Hexamethylenediamine (molten). Hexamethylenediamine solution. Hexamethylenimine. Hexamethylenetetramine solutions. bis-(Hydrogenated tallow alkyl) methyl amines. Isophoronediamine. Isopropylamine. Isopropylamine (70% or less) solution. Long-chain alkyl amine. Long-chain polyetheramine in alkyl (C2–C4) benzenes. Metam sodium solution. Methylamine solutions (42% or less). 2-Methyl-1,5-pentanediamine. Monoethylamine. Morpholine. <sup>1</sup> Oleylamine. Pentaethylenhexamine. Pentaethylenhexamine/Tetraethylenepentamine mixture. Phosphate esters, alkyl (C12–C14) amine. Piperazine (70% or less). Piperazine (crude). Piperazine, 68% solution. Polyalkenyl succinic anhydride amine. Polyethylene polyamines. <sup>1</sup> Polyethylene polyamines (more than 50% C5–C20 Paraffin oil). Poly(iminoethylene)-graft-N-poly (ethyleneoxy) solution (90% or less). (Polyisobutene) amino products in aliphatic hydrocarbons. Polyisobutenamine in aliphatic (C10–C14) solvent. Polyolefin amide alkeneamine/Molybdenum oxysulfide (alternately oxysulphide) mixture. Polyolefinamine (C17+). Polyoxypropylenediamine. n-Propylamine. iso-Propylamine solution. Sodium N-methyl dithio carbamate solution. Sulfohydrocarbon (alternately Sulphohydrocarbon), long-chain (C18+) alkylamine mixture. Tetraethylenepentamine. <sup>1</sup> Triethylamine. Triethylenetetramine. <sup>1</sup> Trimethylamine solution (30% or less).

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
8. Alkanolamines .....	Trimethylhexamethylenediamine (2,2,4- and 2,4,4-). Alkyl (C12–C16) propoxyamine ethoxylates. 2-(2-Aminoethoxy)ethanol. Aminoethyldiethanolamine/Aminoethylethanolamine solution. Aminoethylethanolamine. 2-Amino-2-methyl-1-propanol. Diethanolamine. Diethylaminoethanol. Diisopropanolamine. Dimethylethanolamine. <sup>1</sup> Ethanolamine. Ethoxylated alkyloxy alkyl amine. Ethoxylated long-chain (C16+) alkyloxyalkanamine. Isopropanolamine. Isopropanolamine solution. Linear alkyl (C12–C16) propoxyamine ethoxylates. Methyl diethanolamine. Monoethanolamine. Monoisopropanolamine. n-Propanolamine. Triethanolamine. Triisopropanolamine.
9. Aromatic Amines .....	Alkyl (C8–C9) phenylamine in aromatic solvents. Amine C–6, morpholine process residue. Aniline. Calcium long chain alkyl phenolic amine (C8–C40). 4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution. Dialkyl (C8–C9) diphenylamines. 2,6-Diethylaniline. 2,6-Dimethylaniline. Diphenylamine (molten). Diphenylamine, reaction product with 2,2,4-trimethylpentene. Diphenylamines, alkylated. 2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline. 1,3,5-Hexahydrotriethanol-1,3,5-triazine solution. Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less). N-Methylaniline. 2-Methyl-6-ethyl aniline. 2-Methyl-5-ethylpyridine. Methylpyridine. 2-Methylpyridine. 3-Methylpyridine. 4-Methylpyridine. N-Methyl-2-pyrrolidone. <sup>1</sup> Paraldehyde-Ammonia reaction product. Polyolefin phenolic amine (C28–C250). Pyridine. Pyridine bases. Toluenediamine. o-Toluidine.
10. Amides .....	Acetochlor. Acrylamide solution (50% or less). Alkenyl (C11+) amide. N,N-Dimethylacetamide. N,N-Dimethylacetamide solution. N,N-Dimethylacetamide solution (40% or less). Dimethylformamide. Formamide. N,N-bis(2-Hydroxyethyl) oleamide. Octadecenoamide solution. Oleamide solution. Organomolybdenum amide. Polybutenyl succinimide. Polyisobutenyl succinimide. Sulfurized (alternately Sulphurized) polyolefinamide. Zinc alkenyl carboxamide.
11. Organic Anhydrides ..	Acetic anhydride. Alkenyl (C16–C20) succinic anhydride. Alkyl succinic anhydride. Maleic anhydride. Maleic anhydride/sodium allylsulphonate copolymer solution. Phthalic anhydride (molten).

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
12. Isocyanates .....	Polyisobutenyl anhydride adduct. Polyisobutylene succinic anhydride. Polyolefin anhydride. Propionic anhydride. Diphenylmethane diisocyanate. Hexamethylene diisocyanate. Isophorone diisocyanate. Polymethylene polyphenyl isocyanate. Toluene diisocyanate. Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-).
13. Vinyl Acetates .....	Vinyl acetate. Vinyl ethyl ether. Vinyl neodecanate. Vinyl toluene.
14. Acrylates .....	Butyl acrylate (all isomers). Butyl methacrylate. Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture. Cetyl/Eicosyl methacrylate mixture. Decyl acrylate. Dodecyl methacrylate. Dodecyl/Octadecyl methacrylate mixture. Dodecyl/Pentadecyl methacrylate mixture. Ethyl acrylate. 2-Ethylhexyl acrylate. Ethyl methacrylate. 2-Hydroxyethyl acrylate. <sup>1</sup> Isobutyl methacrylate. Methacrylic resin in ethylene dichloride. Methyl acrylate. Methyl methacrylate. Nonyl methacrylate monomer. Polyalkyl acrylate. Polyalkyl (C18–C22) acrylate in Xylene. Polyalkyl (C10–C20) methacrylate. Polyalkyl methacrylate in mineral oil. Polyalkyl (C10–C18) methacrylate/Ethylene-propylene copolymer mixture.
15. Substituted Allys .....	Acrylonitrile. <sup>1</sup> Allyl alcohol. <sup>1</sup> Allyl chloride. Dichloropropene (all isomers). 1,3-Dichloropropene. Dichloropropene/Dichloropropane mixtures. Methacrylonitrile.
16. Alkylene Oxides .....	Brominated Epoxy Resin in Acetone. 1,2-Butylene oxide. Diglycidyl ether of Bisphenol A. Diglycidyl ether of Bisphenol F. Epoxy resin. Ethylene oxide/Propylene oxide mixture. Ethylene oxide/Propylene oxide mixture with an Ethylene oxide content not more than 30% by mass. Propylene oxide.
17. Epichlorohydrins .....	Chlorohydrins. Chlorohydrins (crude). Epichlorohydrin.
18. Ketones .....	Acetone. <sup>1</sup> Acetophenone. Butyl heptyl ketone. Camphor oil (light). 1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one. <sup>1</sup> Cyclohexanone. Cyclohexanone/Cyclohexanol mixtures. Diisobutyl ketone. Ethyl amyl ketone. Isophorone. Ketone residue. Mesityl oxide. <sup>1</sup> Methyl amyl ketone. Methyl butyl ketone. Methyl ethyl ketone. <sup>1</sup> Methyl heptyl ketone. Methyl isoamyl ketone. Methyl isobutyl ketone. <sup>1</sup>

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
19. Aldehydes .....	Methyl propyl ketone. beta-Propiolactone. Acetaldehyde. Acrolein. <sup>1</sup> Butyraldehyde (all isomers). Crotonaldehyde. <sup>1</sup> Crude isononylaldehyde. Decaldehyde. n-Decaldehyde. 2-Ethyl-3-propylacrolein. <sup>1</sup> Formaldehyde (50% or more)/Methanol mixtures. <sup>1</sup> Formaldehyde solutions (37%-50%). <sup>1</sup> Formaldehyde solutions (45% or less). <sup>1</sup> Furfural. Glutaraldehyde solutions (50% or less). Glyoxal solution (40% or less). Isodecaldehyde. Isononylaldehyde (crude). 3-Methyl butyraldehyde. Methylolureas. 3-(Methylthio)propionaldehyde. Octyl aldehyde. Paraldehyde. Pentyl aldehyde. Propionaldehyde. Valeraldehyde (all isomers).
20. Alcohols, Glycols .....	Acrylonitrile-Styrene copolymer dispersion in Polyether polyol. Alcoholic beverages. Alcohol (C9–C11) poly (2.5–9) ethoxylates. Alcohol (C6–C17) (secondary) poly (3–6) ethoxylates. Alcohol (C10–C18) poly (7) ethoxylates. Alcohol (C6–C17) (secondary) poly (7–12) ethoxylates. Alcohol (C12–C16) poly (1–6) ethoxylates. Alcohol (C12–C16) poly (7–19) ethoxylates. Alcohol (C12–C16) poly (20+) ethoxylates. Alcohol polyethoxylates. Alcohol polyethoxylates, secondary. Alcoholic beverages, n.o.s. Alcohols (C12+), primary, linear. Alcohols (C8–C11), primary, linear and essentially linear. Alcohols (C12–C13), primary, linear and essentially linear. Alcohols (C14–C18), primary, linear and essentially linear. Alcohols (C13+). Alkyl/cyclo (C4–C5) alcohols:. Amyl alcohol, primary. n-Amyl alcohol. sec-Amyl alcohol. tert-Amyl alcohol. Cetyl Alcohol (Hexadecanol). Oleyl Alcohol (Octadecanol). Pentadecanol. Tallow alcohol. Tetradecanol. Tridecanol. Behenyl alcohol. Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume). Brake fluid base mix: Poly(2–8)alkylene (C2–C3) glycols/Polyalkylene (C2–C10) glycols monoalkyl (C1–C4) ethers and their borate esters. 2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture). Butyl alcohol (all isomers). <sup>1</sup> n-Butyl alcohol. Butylene glycol. Choline chloride solutions. Crude Isopropanol. Cyclohexanol. Decyl alcohol (all isomers). <sup>1</sup> Decyl/Dodecyl/Tetradecyl alcohol mixture. Diacetone alcohol. <sup>1</sup> 2,2-Dimethylpropane-1,3-diol (molten or solution). tert-Dodecanethiol. <sup>1</sup> Dodecyl alcohol (all isomers). n-Dodecyl mercaptan.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Ethoxylated alcohols, C11–C15. Ethyl alcohol. <sup>1</sup> Ethyl butanol. Ethylene chlorohydrin. Ethylene cyanohydrin. Ethylene glycol. <sup>1</sup> Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture. Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture. Furfuryl alcohol. <sup>1</sup> Glycerine. <sup>1</sup> Glycerine (83%)/Dioxanedimethanol (17%) mixture. Glycerol. Glycerol monooleate. Glycol mixture, crude. Heptanol (all isomers). Hexadecanol (Cetyl alcohol). Hexamethylene glycol. Hexanol. Hexylene glycol. Isoamyl alcohol. Isobutyl alcohol. Isopropyl alcohol. Methacrylic acid—Alkyloxypoly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less). 3-Methoxy-1-butanol. Methyl alcohol. <sup>1</sup> Methyl amyl alcohol. alpha-Methylbenzyl alcohol with Acetophenone (15% or less). Methyl butanol. Methyl butenol. Methyl 3- (3,5 di-tert-butyl-4-hydroxyphenyl) propionate crude melt. Methyl butynol. Methylcyclohexanemethanol (crude). 2-Methyl-2-hydroxy-3-butyne. Methyl isobutyl carbinol. 3-Methyl-3-methoxybutanol. 2-Methyl-1,3-propanediol. Molasses. Nonyl alcohol (all isomers). <sup>1</sup> 1-Octadecanol. Octadecenol (oleyl alcohol). Octanol (all isomers). <sup>1</sup> Octyl alcohol. <sup>1</sup> Pentacos(oxypropane-2,3-diyl)s. Polyalkylene oxide polyol. Polybutadiene, hydroxyl terminated. Polyglycerine/Sodium salts solution (containing less than 3% Sodium hydroxide). <sup>1</sup> Polyglycerol. Polyolefin amide alkeneamine polyol. n-Propyl alcohol. <sup>1</sup> Propylene glycol. <sup>1</sup> Sorbitol solution. Stearyl alcohol. Tallow alcohol. Tallow fatty alcohol (C13+). Trimethyl nonanol. Trimethylol propane polyethoxylated. Undecanol. Undecyl alcohol. Wine.
21. Phenols, Cresols .....	Alkyl (C4–C9) phenols. Alkylated (C4–C9) hindered phenols. Alkylphenols (C10–C18, C12 rich). Benzyl alcohol. Carbolic oil. Creosote. <sup>1</sup> Creosote (coal tar). Creosote (wood tar). Cresols (all isomers). Cresol/Phenol/Xylenol mixture. Cresols with 5% or more phenol. Cresols with less than 5% phenol. Cresylic acid.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Cresylic acid dephenolized. Cresylic acid tar. Cresylic acid with 5% or more phenol. Dibutylphenols. 2,4-Dichlorophenols. Di-tert-butylphenol. 2,4-Di-tert-butylphenol. 2,6-Di-tert-butylphenol. 2,4-Dichlorophenol. Dodecyl phenol. o-Ethyl phenol. Long-chain alkylphenate/Phenol sulfide (alternately sulphide) mixture. Long-chain alkylphenol (C14–C18). Long-chain alkylphenol (C18–C30). Methylene bridged isobutylenated phenols. Nonylphenol. Nonylphenol (48–62%)/Phenol (42–48%)/Dinonylphenol (1–10%) mixture. Octyl phenol. Phenol. Tertiary butylphenols. Xylenols. epsilon-Caprolactam (molten or aqueous solutions).
22. Caprolactam Solutions.	
23–29. Unassigned.	
30. Olefins .....	Acrylic acid/ethenesulfonic (alternately ethenesulphonic) acid copolymer with phosphonate groups, sodium salt solution. Aryl polyolefin (C11–C50). Butadiene (all isomers). Butadiene/Butylene mixtures (containing Acetylenes). Butene oligomer. Butylenes (all isomers). 1,5,9-Cyclododecatriene. Cyclopentadiene/Styrene/Benzene mixture. 1,3-Cyclopentadiene dimer (molten). Cyclopentene. Decene. Dicyclopentadiene, Resin Grade, 81–89%. Diisobutylene. Dipentene. Dodecene (all isomers). 1-Dodecene. Ethylene. Ethylidene norbornene. <sup>1</sup> Heptene (all isomers). Hexene (all isomers). Isoprene (all isomers). Isoprene (part refined). Isoprene concentrate (Shell). Latex ammonia (1% or less)-inhibited. d-Limonene. Methyl acetylene/Propadiene mixture. Methyl butenes. Methylcyclopentadiene dimer. 2-Methyl-1-pentene. 4-Methyl-1-pentene. alpha-Methylstyrene. Mixed C4 Cargoes. Myrcene. Nonene (all isomers). 1-Octadecene. Octene (all isomers). Olefin-Alkyl ester copolymer (molecular weight 2000+). Olefin mixture (C7–C9) C8 rich, stabilized. Olefin mixtures (C5–C7). Olefin mixtures (C5–C15). Olefins (C13+, all isomers). alpha-Olefins (C6–C18) mixtures. 1,3-Pentadiene. 1,3-Pentadiene (greater than 50%), Cyclopentene and isomers, mixtures. Pentene (all isomers). Pentene. alpha-Pinene.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
31. Paraffins .....	beta-Pinene. Piperylene concentrate. Poly(4+)isobutylene (molecular weight >224). Polyisobutylene (molecular weight ≤224). Polyolefin in mineral oil. Poly(5+)propylene. Propylene. Propylene-butylene copolymer. Propylene dimer. Propylene tetramer. Propylene trimer. Propylene/Propane/MAPP gas mixture. Styrene monomer. Tetradecene. Tridecene. Triisobutylene. Tripropylene. Turpentine. Undecene. 1-Undecene. Alkanes (C10–C26) linear and branched (flash point >60 °C). Alkanes (C10–C26) linear and branched (flash point ≤60 °C). Alkanes (C6–C9). n-Alkanes (C9–C11). n-Alkanes (C10+) (all isomers). iso- & cyclo-Alkanes (C10–C11). iso- & cyclo-Alkanes (C12+). Butane (all isomers). Butane/Propane mixture. Cycloheptane. Cyclohexane. Cyclopentane. Ethane. Ethyl cyclohexane. Ethylene-Propylene copolymer (in liquid mixtures). Heptadecane (all isomers). Hydrocarbon wax. Isopropylcyclohexane. Methane. Methylcyclohexane. 2-Methyl pentane. Nonane (all isomers). Octane (all isomers). Paraffin wax. Pentane (all isomers). Polyalpha olefins. Propane.
32. Aromatic Hydrocarbons Mixtures.	Alkyl acrylate-Vinyl pyridine copolymer in Toluene. Alkyl (C3–C4) benzenes: Butylbenzenes. Cumene. Propylbenzenes. Alkyl (C5–C8) benzenes: Amylbenzenes. Heptylbenzenes. Hexylbenzenes. Octylbenzenes. Alkyl (C9+) benzenes: Decylbenzenes. Dodecylbenzenes. Nonylbenzenes. Tetradecylbenzenes. Tetrapropylbenzenes. Tridecylbenzenes. Undecylbenzenes. Alkylbenzenes mixtures (containing naphthalene). Alkylbenzene mixtures (containing at least 50% of Toluene). Alkylbenzene, Alkylindane, Alkylindene mixture (each C12–C17). Alkyl toluene. Alkyl (C18+) toluenes. Benzene. Benzene and mixtures having 10% Benzene or more.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
33. Miscellaneous Hydrocarbon Mixtures.	<p> Benzene hydrocarbon mixtures (containing Acetylenes) (having 10% Benzene or more).  Benzene/Toluene/Xylene mixtures (having 10% Benzene or more).  Butyl phenol, Formaldehyde resin in Xylene.  Butyl toluene.  C9 Resinfeed (DSM).<sup>1</sup>  <i>p</i>-Cymene.  Detergent alkylate.  Diethylbenzene.  Diisopropylbenzene (all isomers).  Diisopropylnaphthalene.  Diphenyl.  Dodecyl xylene.  Ethylbenzene.  Ethyl toluene.  1-Hexadecylnaphthalene/1,4-bis (Hexadecyl) naphthalene mixture.  1,n-Hexadecylnaphthalene (90%)/1,4-Di-n-(Hexadecyl) naphthalene (10%).  Hexylbenzenes.  Methyl naphthalene (molten).  Naphthalene crude (molten).  Naphthalene (molten).  Naphthalene still residue.  Parachlorobenzotrifluoride.  1-Phenyl-1-xylyl ethane.  Poly(2+) cyclic aromatics.  Polyolefinamine in alkyl (C2–C4) benzenes.  Polyolefinamine in aromatic solvent.  Pyrolysis gasoline (containing Benzene).  Tetrahydronaphthalene.  Tetramethylbenzene (all isomers).  C9 Resinfeed (DSM).<sup>2</sup>  1,2,3,5-Tetramethylbenzene.  Toluene.  Tridecylbenzene.  Triethylbenzene.  Trimethylbenzene (all isomers).  Xylenes.  Xylenes/Ethylbenzene (10% or more) mixture.  Alachlor technical (90% or more).  Alkylbenzene sulfonic (alternately sulphonic) acid, sodium salt solution.  Alkyl dithiothiadiazole (C6–C24).  Alkyl (C18–C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, high overbase.  Alkyl (C18–C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, low overbase.  Asphalt.  Asphalt blending stocks, roofers flux.  Asphalt blending stocks, straight run residue.  Asphalt emulsion.  Asphalt, kerosene, and other components.  Aviation alkylates (C8 paraffins and isoparaffins BPT 95 to 120 °C).  Bio-fuel blends of Diesel/gas oil and Alkanes (C10–C26), linear and branched with a flash point &gt;60 °C (&gt;25% but &lt;99% by volume).  Bio-fuel blends of Diesel/gas oil and Alkanes (C10–C26), linear and branched with a flash point ≤60 °C (&gt;25% but &lt;99% by volume).  Calcium sulfonate (alternately sulphonate)/Calcium carbonate/Hydrocarbon solvent mixture.  Coal tar.  Coal tar crude bases.  Coal tar distillate.  Coal tar pitch (molten).  Coal tar, high temperature.  Decahydronaphthalene.  Diphenyl/Diphenyl ether mixture.  Distillates, flashed feed stocks.  Distillates, straight run.  Drilling mud (low toxicity) (if flammable or combustible).  Gas oil, cracked.  Gasoline blending stock, alkylates.  Gasoline blending stock, reformates.  Gasolines:  Automotive (containing not over 4.23 grams lead per gal.).  Aviation (containing not over 4.86 grams lead per gal.).  Casinghead (natural).  Polymer.  Straight run. </p>



TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Jet Fuels: JP-4. JP-5. JP-8. Kerosene. Mineral spirits. Naphtha: Aromatic. Coal tar solvent. Heavy. Paraffinic. Petroleum. Solvent. Stoddard solvent. Varnish Makers' and Painters'. Oil, fuel: No. 1. No. 1-D. No. 2. No. 2-D. No. 4. No. 5. No. 6. Oil, misc.: Aliphatic. Aromatic. Clarified. Coal. Crude. Diesel. Gas, cracked. Gas, high pour. Gas, low pour. Gas, low sulfur (alternately sulphur). Heartcut distillate. Lubricating. Mineral. Mineral seal. Motor. Neatsfoot. Penetrating. Pine. Residual. Road. Rosin. Spindle. Transformer. Turbine. Vacuum gas oil. Oxyalkylated alkyl phenol formaldehyde. Petrolatum. Petroleum wax. Polybutene. Polyolefin (molecular weight 300+). Polyolefin amide alkeneamine (C17+). Polyolefin amide alkeneamine (C28+). Polyolefin amide alkeneamine borate (C28-C250). Polyolefin amide alkeneamine in mineral oil. Polyolefinamine (C28-C250). Sulfohydrocarbon (alternately Sulphohydrocarbon) (C3-C88). Sulfurized (alternately Sulphurized) fat (C14-C20). Sulfurized (alternately Sulphurized) polyolefinamide alkene (C28-C250) amine. Waxes: Petroleum. White spirit. White spirit (low (15-20%) aromatic).
34. Esters .....	Alkenyl (C8+) amine, Alkenyl (C12+) acid ester mixture. Alkyl dithiocarbamate (C19-C35). Alkyl ester copolymer (C4-C20). Alkyl ester copolymer in mineral oil. Alkyl (C7-C9) nitrates. <sup>1</sup> Alkyl (C8-C40) phenol sulfide (alternately sulphide). Alkyl (C10-C20), (saturated and unsaturated) phosphite.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Alkyl sulfonic (alternately sulphonic) acid ester of phenol. Alkyl (C18–C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, borated. Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomer). Amyl acetate (all isomers). Amyl acid phosphate. Animal and Fish oils, n.o.s.: Cod liver oil. Lanolin. Neatsfoot oil. Pilchard oil. Sperm oil. Animal and Fish acid oils and distillates, n.o.s.: Animal acid oil. Fish acid oil. Lard acid oil. Mixed acid oil. Mixed general acid oil. Mixed hard acid oil. Mixed soft acid oil. Barium long-chain (C11–C50) alkaryl sulfonate (alternately sulphonate). Barium long-chain alkyl (C8–C14) phenate sulfide (alternately sulphide). Benzenetricarboxylic acid trioctyl ester. Benzyl acetate. Bio-fuel blends of Diesel/gas oil and FAME (<25% but <99% by volume). Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume). Boronated calcium sulfonate. Bis (2-ethylhexyl) terephthalate. Boronated calcium sulfonate (alternately sulphonate). Butyl acetate (all isomers). Butyl benzyl phthalate. Butyl butyrate (all isomers). n-Butyl formate. n-Butyl propionate. Butyl stearate. Calcium alkyl (C10–C28) salicylate. Calcium alkyl (C9) phenol sulfide (alternately sulphide), polyolefin phosphorosulfide (alternately phosphorosulphide) mixture. Calcium carbonate slurry. Calcium long-chain alkaryl sulfonate (alternately sulphonate) (C11–C50). Calcium long-chain alkyl (C5–C10) phenate. Calcium long-chain alkyl (C5–C20) phenate. Calcium long-chain alkyl (C11–C40) phenate. Calcium long-chain alkyl (C18–C28) salicylate. Calcium long-chain alkyl phenate sulfide (alternately sulphide) (C8–C40). Calcium long-chain alkyl salicylate (C13+). Calcium nitrate solutions (50% or less). Calcium nitrate/Magnesium nitrate/Potassium chloride solution. Calcium salts of fatty acids. Calcium stearate. Cobalt naphthenate in solvent naphtha. Copper salt of long-chain (C17+) alkanolic acid. Copper salt of long-chain (C3–C16) fatty acid. Cyclohexane-1,2-dicarboxylic acid, diisononyl ester. Cyclohexyl acetate. Decyl acetate. Dialkyl (C7–C13) phthalates: 2,6-Diaminohexanoic acid phosphonate mixed salts solution. Di-(2-ethylhexyl) phthalate. Diheptyl phthalate. Dihexyl phthalate. Diisooctyl phthalate. Dioctyl phthalate. Diisodecyl phthalate. Diisononyl phthalate. Dinonyl phthalate. Ditridecyl phthalate. Diundecyl phthalate. Dialkyl thiophosphates sodium salts solution. Dibutyl hydrogen phosphonate. Dibutyl phthalate. Dibutyl terephthalate. Di-(2-ethylhexyl) adipate.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Di-(2-ethylhexyl) terephthalate. Diethylene glycol dibenzoate. Diethylene glycol phthalate. Diethyl phthalate. Diethyl sulfate (alternately sulphate). Di-n-hexyl adipate. Diisobutyl phthalate. Dimethyl adipate. Dimethylcyclicsiloxane hydrolyzate. Dimethyl glutarate. Dimethyl hydrogen phosphite. <sup>1</sup> Dimethyl naphthalene sulfonic (alternately sulphonic) acid, sodium salt solution. <sup>1</sup> Dimethyl phthalate. Dimethylpolysiloxane. Dimethyl succinate. Dipropylene glycol dibenzoate. Dithiocarbamate ester (C7–C35). Ditridecyl adipate. 2-Dodecenylsuccinic acid, dipotassium salt solution. 2-Ethoxyethyl acetate. Ethyl acetate. Ethyl acetoacetate. Ethyl butyrate. 2-Ethyl-2-(2,4-dichlorophenoxy) acetate. 2-Ethyl-2-(2,4-dichlorophenoxy) propionate. S-Ethyl dipropylthiocarbamate. Ethylene carbonate. Ethylene glycol acetate. Ethylene glycol butyl ether acetate. Ethylene glycol diacetate. Ethylene glycol methyl ether acetate. Ethyl-3-ethoxypropionate. Ethyl hexyl phthalate. Ethyl hexyl tallate. 2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8–C10) ester. Ethyl lactate. Ethyl propionate. Fatty acid methyl esters. Fatty acids (C8–C10). Fatty acids (C12+). Fatty acids (saturated, C13+). Fatty acids (C16+). Fatty acids, essentially linear (C6–C18) 2-ethylhexyl ester. Glyceryl triacetate. Glycidyl ester of C10 trialkyl acetic acid. Glycidyl ester of tertiary carboxylic acid. Glycidyl ester of tridecyl acetic acid. Glycidyl ester of Versatic acid. Glycol diacetate. Glycol triacetate. Heptyl acetate. Herbicide (C15-H22-NO2-Cl). Hexyl acetate. Hog grease. Isobutyl formate. Isopropyl acetate. Lauric acid. Lauric acid methyl ester/Myristic acid methyl ester mixture. Lecithin. Magnesium long-chain alkaryl sulfonate (alternately sulphonate) (C11–C50). Magnesium long-chain alkyl phenate sulfide (alternately sulphide) (C8–C20). Magnesium long-chain alkyl salicylate (C11+). Magnesium nonyl phenol sulfide (alternately sulphide). Magnesium sulfonate (alternately sulphonate). 3-Methoxybutyl acetate. 1-Methoxy-2-propyl acetate. Methyl acetate. Methyl acetoacetate. Methyl amyl acetate. Methyl butyrate. Methyl formate. 3-Methyl-3-methoxybutyl acetate.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Methyl salicylate. N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide. Metolachlor. Naphthalene sulfonic (alternately sulphonic) acid, sodium salt solution. Nitrilotriacetic acid, trisodium salt solution. Nonyl acetate. Nonyl phenol sulfide (90% or less) solution. Octamethylcyclotetrasiloxane. n-Octyl acetate. Octyl decyl adipate. Octyl nitrate. Octyl phthalate. Oil, edible: Beechnut. Castor. Cocoa butter. Coconut. Cod liver. Corn. Cotton seed. Fish. Grape seed. Groundnut. Hazelnut. Illipe. Lard. Maize. Mango kernel. Nutmeg butter. Olive. Palm. Palm kernel. Palm kernel olein. Palm kernel stearin. Palm mid fraction. Palm olein. Palm stearin. Peanut. Poppy. Poppy seed. Raisin seed. Rapeseed. Rapeseed, (low erucic acid containing less than 4% free fatty acids). Rice bran. Safflower. Salad. Sesame. Shea butter. Soyabean. Sunflower. Sunflower seed. Tucum. Vegetable. Walnut. Oil, misc.: Acid mixture from soyabean, corn (maize) and sunflower oil refining. Animal. Camelina. Cashew nut shell oil (untreated). Coconut fatty acid. Coconut, fatty acid methyl ester. Cottonseed oil, fatty acid. Lanolin. Linseed. Oiticica. Palm acid. Palm fatty acid distillate. Palm oil, fatty acid methyl ester. Palm kernel acid. Palm kernel fatty acid distillate. Palm, non-edible industrial grade. Perilla.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Pilchard. Rapeseed fatty acid methyl esters. Seal. Soapstock. Soyabean (epoxidized). Soyabean fatty acid methyl ester. Tall. Tall, crude. Tall, distilled. Tall, fatty acid. Tall, fatty acid (resin acids less than 20%). Tall pitch. Tung. Used cooking oil. Used cooking oil (triglycerides, C16–C18 and C18 unsaturated). n-Pentyl propionate. Phosphate esters. [[(Phosphonomethyl)imino]bis[ethylenenitri]bis(methylene)]tetrakisphosphonic acid, ammonium salt solution (60% or less). Poly(2–8)alkylene glycol monoalkyl (C1–C6) ether acetate: Diethylene glycol butyl ether acetate. Diethylene glycol ethyl ether acetate. Diethylene glycol methyl ether acetate. Polycarboxylic ester (C9+). Polyferric sulfate (alternately sulphate) solution. Polymerized esters. Polymethylsiloxane. Polyolefin aminoester salts (molecular weight 2000+). Polyolefin ester (C28–C250). Polyolefin phosphorosulfide (alternately phosphorosulphide), barium derivative (C28–C250). Poly(20)oxyethylene sorbitan monooleate. Polysiloxane. Polysiloxane/White spirit, low (15–20%) aromatic. Potassium formate solutions. Potassium formate solution (75% or more). Potassium oleate. Potassium salt of polyolefin acid. n-Propyl acetate. Propylene carbonate. Propylene glycol methyl ether acetate. Shea butter. Siloxanes. Sodium acetate solution. Sodium acetate/Glycol/Water mixture (not containing Sodium hydroxide). Sodium alkyl (C14–C17) sulfonates (alternately sulphonates) 60–65% solution. Sodium aluminosilicate slurry. Sodium benzoate. Sodium bicarbonate solution (less than 10%). Sodium dimethyl naphthalene sulfonate (alternately sulphonate) solution. <sup>2</sup> Sodium long-chain alkyl salicylate (C13+). Sodium naphthalene sulfonate (alternately sulphonate) solution. Sodium petroleum sulfonate (alternately sulphonate). Sodium sulfate (alternately sulphate) solution. Tall oil soap, crude. Tallow. Tallow fatty acid. Tributyl phosphate. Tricresyl phosphate (containing 1% or more ortho-isomer). Tricresyl phosphate (containing less than 1% ortho-isomer). Tridecanoic acid. Tridecyl acetate. Triethylene glycol di-(2-ethylbutyrate). Triethylene glycol dibenzoate. Triethyl phosphate. Triethyl phosphite. <sup>1</sup> Triisooctyl trimellitate. <sup>1</sup> Triisopropylated phenyl phosphates. Trimethyl phosphite. <sup>1</sup> 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate. 2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate. 2,2,4-Trimethyl-3-pentanol-1-isobutyrate. Trisodium nitrilotriacetate solution.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Trixylyl phosphate. Trixylenyl phosphate. Vegetable acid oils, n.o.s.: Corn acid oil. Cottonseed acid oil. Dark mixed acid oil. Groundnut acid oil. Mixed acid oil. Mixed general acid oil. Mixed hard acid oil. Mixed soft acid oil. Rapeseed acid oil. Safflower acid oil. Soya acid oil. Sunflower seed acid oil. Vegetable oil mixtures, containing less than 15% free fatty acid (m). Vegetable fatty acid distillates, n.o.s.: Palm kernel fatty acid distillate. Palm oil fatty acid distillate. Tall fatty acid distillate. Tall oil fatty acid distillate. Vegetable oils, n.o.s.: Beechnut oil. Camelina oil. Cashew nut shell. Castor oil. Cocoa butter. Coconut oil. Corn oil. Cotton seed oil. Croton oil. Grape seed oil. Groundnut oil. Hazelnut oil. Illipe oil. Linseed oil. Mango kernel oil. Nutmeg butter. Oiticica oil. Olive oil. Palm kernel oil. Palm kernel olein. Palm kernel stearin. Palm mid fraction. Palm, non-edible industrial grade. Palm oil. Palm olein. Palm stearin. Peanut oil. Peel oil (oranges and lemons). Perilla oil. Pine oil. Poppy seed oil. Poppy oil. Raisin seed oil. Rapeseed oil. Rapeseed (low erucic acid containing less than 4% free fatty acids). Rice bran oil. Rosin oil. Safflower oil. Salad oil.. Sesame oil. Shea butter. Soyabean oil. Sunflower seed oil. Tall. Tall, crude. Tall, distilled. Tall, pitch. Tucum oil. Tung oil. Walnut oil.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
35. Vinyl Halides .....	Waxes: Candelilla. Carnauba. Zinc alkaryl dithiophosphate (C7–C16). Zinc alkyl dithiophosphate (C3–C14). Vinyl chloride. Vinylidene chloride.
36. Halogenated Hydrocarbons.	Benzyl chloride. Bromochloromethane. Carbon tetrachloride. <sup>1</sup> Catoxid feedstock. <sup>1</sup> Chlorinated paraffins (C10–C13). Chlorinated paraffins (C14–C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains). Chlorinated paraffins (C14–C17) (with 52% Chlorine). Chlorinated paraffins (C18+) with any level of Chlorine. Chlorobenzene. Chloroform. <i>m</i> -Chlorotoluene. <i>o</i> -Chlorotoluene. <i>p</i> -Chlorotoluene. Chlorotoluenes (mixed isomers). Dibromomethane. Dichlorobenzene (all isomers). 3,4-Dichloro-1-butene. Dichlorodifluoromethane. 1,1-Dichloroethane. 1,6-Dichlorohexane. Dichloromethane. Dichloropropane. 1,1-Dichloropropane. 1,2-Dichloropropane. 1,3-Dichloropropane. Ethyl chloride. Ethylene dibromide. Ethylene dichloride. <sup>1</sup> Methyl bromide. Methyl chloride. Methylene chloride. Monochlorodifluoromethane. Pentachloroethane. Perchloroethylene. <i>n</i> -Propyl chloride. Sym-trichlorobenzene. Tetrachloroethane. 1,1,2,2-Tetrachloroethane. 1,2,3-Trichlorobenzene (molten). 1,2,4-Trichlorobenzene. 1,2,3-Trichlorobenzol. 1,1,1-Trichloroethane. <sup>1</sup> 1,1,2-Trichloroethane. Trichloroethylene. <sup>1</sup> 1,1,2-Trichloro-1,2,2-trifluoroethane. 1,2,3-Trichloropropane.
37. Nitriles .....	Acetonitrile. Acetonitrile (low purity grade). Adiponitrile. Lactonitrile solution (80% or less). 2-Methylglutaronitrile. 2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less). Propionitrile. Tallow alkyl nitrile.
38. Carbon Disulfide (Alternately Disulfide).	Carbon disulfide (alternately disulphide).
39. Sulfolane (Alternately Sulfolane).	Sulfolane (alternately Sulpholane).
40. Glycol Ethers .....	Alkyl (C7–C11) phenol poly(4–12) ethoxylates. Alkyl (C9–C15) phenyl propoxylate. Alkyl (C10–C15, C12 rich) phenol poly(4–12)ethoxylate. Diethylene glycol. <sup>1</sup> Diethylene glycol butyl ether. Diethylene glycol dibutyl ether. Diethylene glycol diethyl ether.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Diethylene glycol ethyl ether. Diethylene glycol methyl ether. Diethylene glycol n-hexyl ether. Diethethylene glycol phenyl ether. Diethylene glycol propyl ether. Dipropylene glycol. Dipropylene glycol butyl ether. Dipropylene glycol methyl ether. 2-Ethoxyethanol. Ethoxy triglycol (crude). Ethylene glycol dibutyl ether. Ethylene glycol monoalkyl ethers: Ethylene glycol butyl ether. Ethylene glycol tert-butyl ether. Ethylene glycol ethyl ether. Ethylene glycol hexyl ether. Ethylene glycol isopropyl ether. Ethylene glycol methyl butyl ether. Ethylene glycol methyl ether. Ethylene glycol propyl ether. Ethylene glycol n-propyl ether. Ethylene glycol phenyl ether. Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture. Glucitol/Glycerol blend propoxylated (containing less than 10% amines). Glucitol/Glycerol blend propoxylated (containing 10% or more amines). Glycerol, ethoxylated. Glycerol polyalkoxylate. Glycerol, propoxylated. Glycerol, propoxylated and ethoxylated. Glycerol/Sucrose blend propoxylated and ethoxylated. alpha-Hydro-omega-hydroxytetradeca (oxytetramethylene). Methoxy triglycol. Nonyl phenol poly(4+)ethoxylates. Pentaethylene glycol methyl ether. Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures. Poly(2–8)alkylene glycol monoalkyl (C1–C6) ethers: Diethylene glycol butyl ether. Diethylene glycol ethyl ether. Diethylene glycol n-hexyl ether. Diethylene glycol methyl ether. Diethylene glycol propyl ether. Dipropylene glycol butyl ether. Dipropylene glycol methyl ether. Polyalkylene glycol butyl ether. Polyethylene glycol monoalkyl ether. Polypropylene glycol methyl ether. Tetraethylene glycol methyl ether. Triethylene glycol butyl ether. Triethylene glycol ethyl ether. Triethylene glycol methyl ether. Tripropylene glycol methyl ether. Polyethylene glycol. Polyalkylene glycol butyl ether. Polyethylene glycol dimethyl ether. Poly (ethylene glycol) methylbutenyl ether (molecular weight >1000). Polypropylene glycol. Poly (tetramethylene ether) glycols (molecular weight 950–1050). Polytetramethylene ether glycol. Propylene glycol monoalkyl ethers: n-Propoxypropanol. Propylene glycol n-butyl ether. Propylene glycol ethyl ether. Propylene glycol methyl ether. Propylene glycol propyl ether. Propylene glycol phenyl ether. Tetraethylene glycol. Triethylene glycol. Triethylene glycol butyl ether mixture. Triethylene glycol ether mixture. Tripropylene glycol.
41. Ethers .....	Alcohol (C12–C13, branched and linear) poly(4–8)propoxy sulfates (alternately sulphates), sodium salt 25–30% solution.



TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	Alkaryl polyethers (C9–C20). tert-Amyl ethyl ether. tert-Amyl methyl ether. n-Butyl ether. Dichloroethyl ether. 2,2'-Dichloroisopropyl ether. Diethyl ether. Dimethyl ether. Dimethyl furan. 1,4-Dioxane. Diphenyl ether. Diphenyl ether/Diphenyl phenyl ether mixture. Ethyl tert-butyl ether. <sup>1</sup> Isopropyl ether. Long chain alkaryl polyether (C11–C20). Methyl-tert-butyl ether. <sup>1</sup> Methyl tert-pentyl ether. Polyether, borated. Polyether (molecular weight 1350+). Polyether polyols. Poly(oxyalkylene) alkenyl ether (molecular weight >1000). Polyoxybutylene alcohol. Propyl ether. Tetrahydrofuran. 1,3,5-Trioxane.
42. Nitrocompounds .....	o-Chloronitrobenzene. Dinitrotoluene (molten). Nitrobenzene. o-Nitrochlorobenzene. Nitroethane. Nitroethane (80%)/Nitropropane (20%). Nitroethane/1-Nitropropane (each 15% or more) mixture. Nitrophenol (mixed isomers). Nitropropane (60%)/Nitroethane (40%) mixtures. 1- or 2-Nitropropane. o- or p-Nitrotoluenes.
43. Miscellaneous Water Solutions.	Alkyl (C8–C10) polyglucoside solution (65% or less). Alkyl (C8–C10)/(C12–C14):(40% or less/60% or more) polyglucoside solution (55% or less). Alkyl (C8–C10)/(C12–C14):(50%/50%) polyglucoside solution (55% or less). Alkyl (C8–C10)/(C12–C14):(60% or more/40% or less) polyglucoside solution (55% or less). Alkyl (C12–C14) polyglucoside solution (55% or less). Aluminum sulfate (alternately Aluminium sulphate) solution. <sup>1</sup> 2-Amino-2-hydroxymethyl-1,3-propanediol solution. Ammonium bisulfite (alternately bisulphite) solution (70% or less). <sup>1</sup> Ammonium chloride solution (less than 25%). Ammonium polyphosphate solution. Ammonium sulfate (alternately sulphate) solution. Ammonium sulfate (alternately sulphate) solution (20% or less). Ammonium thiosulfate (alternately thiosulphate) solution (60% or less). Apple juice. Caramel solutions. Cesium formate solution. Clay slurry. Coal slurry. Corn syrup. Cyclohexane oxidation products, sodium salts solution. Dextrose solution. 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution. 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution. <sup>1</sup> Diethylenetriaminopentaacetic acid, pentasodium salt solution. Dodecyl diphenyl ether disulfonate (alternately disulphonate) solution. Drilling brines (containing Calcium, Potassium, or Sodium salts). Drilling brines (containing Zinc salts). Drilling brines, including: Calcium bromide solution, Calcium chloride solution, and Sodium chloride solution. Drilling mud (low toxicity) (if non-flammable or non-combustible). Ethylenediaminetetracetic acid/tetrasodium salt solution. Ethylene-Vinyl acetate copolymer (emulsion). Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution. <sup>1</sup> Fish solubles (water-based fish meal extracts). Fructose solution. Fumaric adduct of Rosin, water dispersion. Glucose solution.

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

Group	Cargo
	<p>Hexamethylenediamine adipate (50% in water).  Hexamethylenediamine adipate solution.  N-(Hydroxyethyl)ethylenediamine triacetic acid, trisodium salt solution.  Kaolin clay solution/suspension.  Kaolin slurry.  Latex, liquid synthetic.  Latex: Carboxylated Styrene-Butadiene copolymer; Styrene-butadiene rubber.  Lauryl polyglucose.  Lauryl polyglucose (50% or less).  Lignin liquor.  Ligninsulfonic (alternately Ligninsulphonic) acid, magnesium salt solution.  Ligninsulfonic (alternately Ligninsulphonic) acid, sodium salt solution.  Liquid Streptomyces solubles.  L-Lysine solution (60% or less).  Magnesium nitrate solution (66.7%).  Microsilica slurry.  Milk.  N-Methylglucamine solution.  Naphthenic acid, sodium salt solution.  Pentasodium salt of Diethylenetriaminepentaacetic acid solution.  Phenol solutions (2% or less).  Polyacrylic acid solution (40% or less).  Potassium chloride solution.  Potassium chloride solution (10% or more).  Potassium chloride solution (less than 26%).  Potassium thiosulfate (alternately thiosulphate) (50% or less).  Rosin soap (disproportionated) solution.  Sewage sludge.  Silica slurry.  Sludge, treated.  Sodium bromide solution (less than 50%).  Sodium hydrogen sulfite (alternately sulphite) solution (45% or less).  Sodium lignosulfonate (alternately lignosulphonate) solution.  <i>Sodium naphthalene sulfonate solution (40% or less), see Naphthalene sulphonic acid, sodium salt solution (40% or less).</i>  <i>Sodium naphthenate solution, see Naphthenic acid, sodium salt solution.</i>  Sodium poly(4+)acrylate solution.  Sodium polyacrylate solution.<sup>1</sup>  Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution.  Sodium silicate solution.<sup>1</sup>  Sodium sulfide (alternately sulphide) solution (15% or less).  Sodium sulfite (alternately sulphite) solution (25% or less).  Sodium tartrates/Sodium succinates solution.  Sulfonated (alternately Sulphonated) polyacrylate solution.<sup>1</sup>  Tall oil soap (disproportionated) solution.  Tetrasodium salt of ethylenediaminetetraacetic acid solution.  Titanium dioxide slurry.  Trisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution.  Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution.  Urea solution.  Urea/Ammonium nitrate solution (containing less than 1% free Ammonia).  Urea/Ammonium phosphate solution.  Vegetable protein solution (hydrolyzed).  Water.</p>

**Notes:**

<sup>1</sup> Due to potential compatibility issues, see Appendix I to 46 CFR part 150 (Exceptions to the Chart).

- 6. Amend Appendix I to Part 150 by:
- a. In the table in paragraph (a):
- i. After the entry for “Caustic soda 50% or less (5)”, add an entry for “2,4, D Dimethyl amine salt (DMA 806) (0)”;
- ii. Remove the entry for “Dimethyl disulfide (alternately disulfide) (0)”;
- iii. Adding in alphabetic order entries for “Dimethyl disulfide (alternately disulphide) (0)”; “tert-Dodecanethiol (Sulfole 120) (0)”, “tert-Dodecanethiol

(0)”, “n-Dodecyl mercaptan (0)”, “Hexamethylenediamine (7)”, “Hexamethylenediamine (molten) (HMD 98%, molten) (7)”, “Hexamethylenediamine solution (7)”, “Hexamethylenediamine solution (HMD 90%) (7)”, “Phenol (90% hydrated) (21)”, “Sodium hydrosulfide (alternately hydrosulphide) solution (5)”, “Sodium Methylate, 30% solution in Methanol (0)”, “Sulfuric

(alternately Sulphuric) acid (95–98%) (2)”; and

- b. Amend paragraph (b) by adding entries, in alphabetical order, for “Glycol Ethers (Group 40)” and “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.
n-Dodecyl-mercaptan (0)	Acetone (18). All chemicals in Group 33.
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)	CepSino™ 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).
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) \* \* \*  
\* \* \* \* \*  
Glycol Ethers (Group 40) are not compatible with Acrylonitrile (Group 15);  
\* \* \* \* \*  
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), Nitrotri-acetic acid, trisodium salt solution (Group 34), Sodium acetate solutions (Group 34), Sodium sulphate

solutions (Group 34), Polyferric sulphate solution (Group 34).  
\* \* \* \* \*  
Dated: November 7, 2023.  
**W.R. Arguin,**  
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