

DEPARTMENT OF HOMELAND SECURITY

Coast Guard

46 CFR Parts 30 and 150

[Docket No. USCG–2022–0327]

RIN 1625–AC73

2022 Liquid Chemical Categorization Updates

AGENCY: Coast Guard, DHS.

ACTION: Notice of proposed rulemaking.

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

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

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

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

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I. Public Participation and Request for Comments

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

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

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

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

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

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

II. Abbreviations

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

III. Basis and Purpose

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

The legal basis of this rulemaking is title 46 of the United States Code (U.S.C.), Section 3703, which requires the Secretary of the department in which the Coast Guard is operating to prescribe regulations relating to the operation of vessels that carry liquid bulk dangerous cargoes, and to the types and grades of cargo those vessels carry. Additional regulatory authority is provided by 33 U.S.C. 1903 (Administration and enforcement, regulations to implement the International Convention for the Prevention of Pollution from Ships, 1973, or “MARPOL”), 46 U.S.C. 2103 (Superintendence of the merchant marine, general merchant marine regulatory authority), and 46 U.S.C. 3306 (Regulations, regulations for the safety of individuals and property on inspected vessels). The Secretary’s authority under these statutes is delegated to the Coast Guard in the Department of Homeland Security (DHS) Delegation 00170.1, Revision No. 01.2, paragraphs (II)(92)(a) and 92(b).

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

IV. Background

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

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

V. Discussion of Proposed Rule

Coast Guard regulations in 46 CFR subchapters D (Tank vessels, parts 30 through 40) and O (Certain bulk dangerous cargoes, parts 150 through 155) contain requirements for ensuring

the safe maritime carriage (transportation) of certain bulk liquid cargoes. Tables in subchapters D and O list the cargoes that have been approved for maritime carriage. The tables also categorize each cargo's pollution-hazard risk and safe carriage requirements. The categories are developed in the course of the Coast Guard's and the IMO's assessment and review processes, which are described in the following paragraphs. This information is of value to vessel owners and operators, and to shippers of the cargoes involved.

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

Agencies responsible for administering international treaties must agree on the new cargo's assessment before the cargo can be approved for transportation. This is done by a "tripartite agreement" entered into by the administrations of the exporting country, the importing country, and the country in which the ship that will carry the cargo is registered. The tripartite agreement categorizes the cargo's pollution-hazard risk, flammability, and combustibility in accordance with the IBC Code. A copy of the tripartite agreement is forwarded to the MEPC and to the administration of every country that is signatory to the IBC Code.

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

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

Each December, the MEPC releases a circular listing each new cargo for which it has completed its review of the cargo's tripartite agreement. The circular lists the countries that have approved international maritime transportation of

each new cargo, and provides information about each cargo's pollution-hazard risk and flammability and combustibility. Thus, if a tripartite agreement has approved a cargo for international bulk maritime transportation and the MEPC validates or modifies that information, eventually it will be listed in the MEPC circular. Periodically, the IBC Code is revised to incorporate the cargoes listed in the MEPC's annual circulars since the last edition of the IBC Code.

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

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

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

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

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

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

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

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

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

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

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

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

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

VI. Regulatory Analyses

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

A. Regulatory Planning and Review

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

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

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

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

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

Affected Population

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

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

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

Costs

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

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

Benefits

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

B. Small Entities

Under the Regulatory Flexibility Act, 5 U.S.C. 601-612, we have considered whether this proposed rule would have a significant economic impact on a substantial number of small entities. The term "small entities" comprises small businesses, not-for-profit organizations that are independently owned and operated and are not dominant in their fields, and governmental jurisdictions with populations of less than 50,000.

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

The Coast Guard certifies under 5 U.S.C. 605(b) that this proposed rule would not have a significant economic impact on a substantial number of small

entities. If you think that your business, organization, or governmental jurisdiction qualifies as a small entity and that this proposed rule would have a significant economic impact on it, please submit a comment to the docket at the address listed in the **ADDRESSES** section of this preamble. In your comment, explain why you think it qualifies and how and to what degree this proposed rule would economically affect it.

C. Assistance for Small Entities

Under section 213(a) of the Small Business Regulatory Enforcement Fairness Act of 1996, Public Law 104-121, we want to assist small entities in understanding this proposed rule so that they can better evaluate its effects on them and participate in the rulemaking. If the proposed rule would affect your small business, organization, or governmental jurisdiction and you have questions concerning its provisions or options for compliance, please call or email the person in the **FOR FURTHER INFORMATION CONTACT** section of this proposed rule. The Coast Guard will not retaliate against small entities that question or complain about this proposed rule or any policy or action of the Coast Guard.

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

D. Collection of Information

This proposed rule would call for no new or revised collection of information under the Paperwork Reduction Act of 1995, 44 U.S.C. 3501-3520. This proposed rule simply would update and revise tables that list cargoes that have been approved and categorized for bulk maritime transportation, which does not involve information collection.

E. Federalism

A rule has implications for federalism under Executive Order 13132 (Federalism) if it has a substantial direct effect on States, on the relationship between the National Government and the States, or on the distribution of power and responsibilities among the various levels of government. We have analyzed this proposed rule under

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

It is well settled that States may not regulate in categories reserved for regulation by the Coast Guard. It is also well settled that all of the categories covered in 46 U.S.C. 3306, 3703, 7101, and 8101 (design, construction, alteration, repair, maintenance, operation, equipping, personnel qualification, and manning of vessels), as well as the reporting of casualties and any other category in which Congress intended the Coast Guard to be the sole source of a vessel's obligations, are within the field foreclosed from regulation by the States. See *United States v. Locke*, 529 U.S. 89, 120 S.Ct. 1135 (2000). This proposed rule would amend existing regulations for inspected tank vessels carrying certain bulk dangerous cargoes. These cargoes fall within the categories in 46 U.S.C. 3703 and within fields in which the States are foreclosed from regulating. Therefore, because the States may not regulate within these categories, this rule is consistent with the fundamental federalism principles and preemption requirements described in Executive Order 13132.

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

F. Unfunded Mandates

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

effects of this proposed rule elsewhere in this preamble.

G. Taking of Private Property

This proposed rule would not cause a taking of private property or otherwise have taking implications under Executive Order 12630 (Governmental Actions and Interference with Constitutionally Protected Property Rights).

H. Civil Justice Reform

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

I. Protection of Children

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

J. Indian Tribal Governments

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

K. Energy Effects

We have analyzed this proposed rule under Executive Order 13211 (Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use). We have determined that it is not a “significant energy action” under that order because it is not a “significant regulatory action” under Executive Order 12866 and is not likely to have a significant adverse effect on the supply, distribution, or use of energy.

L. Technical Standards

The National Technology Transfer and Advancement Act, codified as a note to 15 U.S.C. 272, directs agencies to use voluntary consensus standards in their regulatory activities unless the agency provides Congress, through OMB, with an explanation of why using these standards would be inconsistent with applicable law or otherwise impractical. Voluntary consensus

standards are technical standards (*e.g.*, specifications of materials, performance, design, or operation; test methods; sampling procedures; and related management systems practices) that are developed or adopted by voluntary consensus standards bodies.

This proposed rule does not use technical standards. It is based on international standards that were developed using consensus standards development processes.

M. Environment

We have analyzed this proposed rule under Department of Homeland Security Management Directive 023–01, Rev. 1, associated implementing instructions, and Environmental Planning COMDTINST 5090.1 (series), which guide the Coast Guard in complying with the National Environmental Policy Act of 1969 (42 U.S.C. 4321–4370f), and have made a preliminary determination that this action is one of a category of actions that do not individually or cumulatively have a significant effect on the human environment. A preliminary Record of Environmental Consideration supporting this determination is available in the docket. For instructions on locating the docket, see the **ADDRESSES** section of this preamble.

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

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

List of Subjects

46 CFR Part 30

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

46 CFR Part 150

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

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

PART 30—GENERAL PROVISIONS

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

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

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

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

propoxylated (containing less than 10% amines)”;

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

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

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

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

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

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

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

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

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

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

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

The additions read as follows:

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

* * * * *

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

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

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

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

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

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

PART 150—COMPATIBILITY OF CARGOES

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

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

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

TABLE 1 TO PART 150—ALPHABETICAL LIST OF CARGOES

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

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|--|-----------|----------|-------------|------------|----------------------|
| Alcohols (C12-C13), primary, linear, and essentially linear | 20 | 3 | *112-53-8 | AYK | ALR/ASY/AYL. |
| Alcohols (C14-C18), primary, linear, and essentially linear | 20 | 3 | *112-72-1 | AYL | ALR/ASY/AYK. |
| Alcohols (C13+) | 20 | | *112-70-9 | ALY | ASY/AYK. |
| <i>Including:</i> | | | | | |
| <i>Cetyl alcohol (Hexadecanol)</i> | 20 | | 36653-82-4 | | |
| <i>Oleyl alcohol (Octadecanol)</i> | 20 | | 112-92-5 | | |
| <i>Pentadecanol</i> | 20 | | 629-76-5 | | |
| <i>Tallow alcohol</i> | 20 | | 99561-04-3 | | |
| <i>Tetradecanol</i> | 20 | | 112-72-1 | | |
| <i>Tridecanol</i> | 20 | | 112-70-9 | | |
| Alkanes (C10-C26), linear and branched (flash point >60 °C) | 31 | 3 | *124-18-5 | ABD. | |
| Alkanes (C10-C26), linear and branched (flash point ≤60 °C) | 31 | 3 | *124-18-5 | ABE. | |
| Alkanes (C6-C9) | 31 | | *110-54-3 | ALK. | |
| <i>Including:</i> | | | | | |
| <i>Heptanes</i> | 31 | | 142-82-5 | | |
| <i>Hexanes</i> | 31 | | 110-54-3 | | |
| <i>Nonanes</i> | 31 | | 111-84-2 | | |
| <i>Octanes</i> | 31 | | 111-65-9 | | |
| iso- & cyclo-Alkanes (C10-C11) | 31 | | *34464-38-5 | AKI. | |
| iso- & cyclo-Alkanes (C12+) | 31 | | *31807-55-3 | AKJ. | |
| n-Alkanes (C9-C11) | 31 | 3 | *111-84-2 | | |
| n-Alkanes (C10+) (all isomers) | 31 | | *124-18-5 | ALV | ALJ. |
| <i>Including:</i> | | | | | |
| <i>Decanes</i> | 31 | | 124-18-5 | | |
| <i>Dodecanes</i> | 31 | | 112-40-3 | | |
| <i>Heptadecanes</i> | 31 | | 629-78-7 | | |
| <i>n-Paraffins (C10-C20)</i> | 31 | | *124-18-5 | PFN | ALJ. |
| <i>Tridecanes</i> | 31 | | 629-50-5 | | |
| <i>Undecanes</i> | 31 | | 1120-21-4 | | |
| <i>Alkane (C14-C17) sulfonic (alternately sulphonic) acid, sodium salt solutions, see Sodium alkyl (C14-C17) sulfonates (alternately sulphonates) (60-65% solution).</i> | | | 85711-69-9 | AKA | SAA (AKE/SSU). |
| Alkaryl polyethers (C9-C20) | 41 | | | AKP. | |
| Alkenoic acid, polyhydroxy ester borated | 0 | 1, 3 | | AAV. | |
| Alkenyl (C11+) amide | 10 | | | AKM. | |
| Alkenyl (C8+) amine, Alkenyl (C12+) acid ester mixture | 34 | | | AAA. | |
| Alkenyl (C16-C20) succinic anhydride | 11 | | *32072-96-1 | AAH. | |
| Alkyl acrylate-Vinyl pyridine copolymer in Toluene | 32 | | | AAP. | |
| Alkyl amine (C17+) | 7 | | *4200-95-7 | AKY. | |
| Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers). | 34 | | 78-31-9 | ADP. | |
| Alkylated (C4-C9) hindered phenols | 21 | 3 | *98-54-4 | AYO. | |
| Alkyl (C3-C4) benzenes | 32 | | *103-65-1 | AKC. | |
| <i>Including:</i> | | | | | |
| <i>Butylbenzenes</i> | 32 | 3 | 104-51-8 | | |
| <i>Cumene</i> | 32 | | 98-82-8 | | |
| <i>Propylbenzenes</i> | 32 | | 103-65-1 | | |
| Alkyl (C5-C8) benzenes | 32 | | *538-68-1 | AKD. | |
| <i>Including:</i> | | | | | |
| <i>Amylbenzenes</i> | 32 | | 538-68-1 | | |
| <i>Heptylbenzenes</i> | 32 | | 2132-85-6 | | |
| <i>Hexylbenzenes</i> | 32 | | 1077-16-3 | | |
| <i>Octylbenzenes</i> | 32 | | 2189-60-8 | | |
| Alkyl (C9+) benzenes | 32 | | *1081-77-2 | AKB. | |
| <i>Including:</i> | | | | | |
| <i>Decylbenzenes</i> | 32 | | 104-72-3 | | |
| <i>Dodecylbenzenes</i> | 32 | | 29986-57-0 | | |
| <i>Nonylbenzenes</i> | 32 | | 1081-77-2 | | |
| <i>Tetradecylbenzenes</i> | 32 | | 1459-10-5 | | |
| <i>Tetrapropylbenzenes</i> | 32 | | 635-11-0 | | |
| <i>Tridecylbenzenes</i> | 32 | | 123-02-4 | | |
| <i>Undecylbenzenes</i> | 32 | | 6742-54-7 | | |
| Alkyl benzene distillation bottoms | 0 | 1, 3 | | ABB. | |
| Alkylbenzene mixtures (containing at least 50% of Toluene) | 32 | 3 | *108-88-3 | AZT. | |
| Alkylbenzenes mixtures (containing naphthalene) | 20 | | | ALB | AZT. |
| Alkylbenzene, Alkylindane, Alkylindene mixture (each C12-C17) | 32 | | | AIH. | |
| Alkyl (C11-C17) benzene sulfonic (alternately sulphonic) acid | 0 | 1, 3 | *50854-94-9 | ABN | ABS/ABQ. |
| Alkylbenzene sulfonic (alternately sulphonic) acid (less than 4%) | 0 | 1, 2 | *104-15-4 | ABQ | ABS/ABN. |
| Alkylbenzene sulfonic (alternately sulphonic) acid, sodium salt solution | 33 | | *657-84-1 | ABT. | |
| Alkyl/cyclo (C4-C5) alcohols | 20 | | | AAL. | |
| Alkyl (C12+) dimethylamine | 7 | 3 | *112-18-5 | ADM. | |
| Alkyl dithiocarbamate (C19-C35) | 34 | 3 | | ADB. | |
| Alkyl dithiothiadiazole (C6-C24) | 33 | | | ADT. | |
| Alkyl ester copolymer (C4-C20) | 34 | | | AES | AEQ. |
| Alkyl ester copolymer in mineral oil | 34 | | | AEQ | AEQ. |
| Alkyl (C7-C9) nitrates | 34 | 2 | *20633-12-9 | AKN | ONE. |
| Alkyl (C7-C11) phenol poly(4-12) ethoxylate | 40 | | | APN | NPE. |
| Alkyl (C10-C15, C12 rich) phenol poly (4-12)ethoxylate | 40 | | | APX | APN. |
| Alkyl (C4-C9) phenols | 21 | | *1638-22-8 | AYI | BLT/BTP/NNP/ OPH. |

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|---|-----------|----------|--------------|------------|------------------------|
| Alkylphenols (C10-C18, C12 rich) | 21 | | | ALP | AYI/DOL. |
| Alkyl phenol sulfide (alternately sulphide) (C8-C40), see Alkyl (C8-C40) phenol sulfide (alternately sulphide). | | | | | AKS. |
| Alkyl (C8-C40) phenol sulfide (alternately sulphide) | 34 | | | AKS. | |
| Alkyl (C9-C15) phenyl propoxylate | 40 | | * 9064-15-7 | AXL. | |
| Alkyl (C8-C9) phenylamine in aromatic solvents | 9 | | | ALP. | |
| n-Alkyl phthalates, see individual phthalates | | | | AYS. | |
| Alkyl polyglucoside solution, see individual polyglucoside solutions | | | | AGD | AGL/AGM/AGN/AGO/AGP. |
| Alkyl (C8-C10) polyglucoside solution (65% or less) | 43 | 3 | * 29836-26-8 | AGL | AGD/AGM/AGN/AGO/AGP. |
| Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less). | 43 | 3 | * 29836-26-8 | AGN | AGD/AGL/AGM/AGO/AGP. |
| Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less) | 43 | 3 | * 29836-26-8 | AGO | AGD/AGL/AGN/AGP. |
| Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution (55% or less). | 43 | 3 | * 29836-26-8 | AGP | AGD/AGL/AGM/AGN/AGO. |
| Alkyl (C12-C14) polyglucoside solution (55% or less) | 43 | 3 | * 59122-55-3 | AGM | AGD/AGL/AGN/AGO/AGP. |
| Alkyl (C12-C16) propoxyamine ethoxylates | 8 | 3 | | AXE | LPE. |
| Alkyl (C10-C20), saturated and unsaturated phosphite | 34 | | | AKL. | |
| Alkyl succinic anhydride | 11 | | * 4100-80-5 | AUA. | |
| Alkyl sulfonic (alternately sulphonic) acid ester of phenol | 34 | | 91082-17-6 | AKH. | |
| Alkyl toluene | 32 | | * 95-47-6 | AYL | AUS. |
| Alkyl (C18+) toluenes | 32 | 3 | * 94135-42-9 | AUS | AYL. |
| Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid | 0 | 1, 3 | * 3386-32-1 | AUU. | |
| Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, borated. | 34 | 3 | | AUB. | |
| Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, high overbase. | 33 | 3 | | AUC. | |
| Alkyl (C18-C28) toluenesulfonic (alternately toluenesulphonic) acid, Calcium salts, low overbase. | 33 | 3 | | AUL. | |
| Allyl alcohol | 15 | 2 | 107-18-6 | ALA. | |
| Allyl chloride | 15 | | 107-05-1 | ALC. | |
| Aluminum (alternately, Aluminium) chloride/Hydrochloric acid solution, see "Aluminum (alternately, Aluminium) chloride/Hydrogen chloride solution". | | 1 | | AHS | AHG. |
| Aluminum (alternately Aluminium) chloride/Hydrogen chloride solution | 0 | 1, 3 | | AHG | AHS. |
| Aluminum (alternately Aluminium) hydroxide/sodium hydroxide/sodium carbonate solution (40% or less). | 5 | 3 | | AHN. | |
| Aluminum sulfate (alternately Aluminium sulphate) solution | 43 | 2 | 10043-01-3 | ASX | ALM. |
| Amine C-6, morpholine process residue | 9 | | | AOI. | |
| Aminoethyldiethanolamine/Aminoethylethanolamine solution | 8 | | | ADY. | |
| 2-(2-Aminoethoxy) ethanol | 8 | | 929-06-6 | AEX. | |
| Aminoethylethanolamine | 8 | | 111-41-1 | AEE. | |
| N-Aminoethylpiperazine | 7 | | 140-31-8 | AEP. | |
| 2-Amino-2-hydroxymethyl-1,3-propanediol solution | 43 | | 77-86-1 | AHL. | |
| 2-Amino-2-methyl-1-propanol | 8 | | 124-68-5 | APZ | APQ/APR. |
| Ammonia, anhydrous | 6 | | 7664-41-7 | AMA. | |
| Ammonia, aqueous (28% or less Ammonia), see Ammonium hydroxide | | | 1336-21-6 | | AMH. |
| Ammonium bisulfite (alternately bisulphite) solution (70% or less) | 43 | 2 | 10192-30-0 | ABX | ASU. |
| Ammonium chloride solution (less than 25%) | 43 | 3 | 12125-02-9 | AIS | AMC. |
| Ammonium hydrogen phosphate solution | 0 | 1 | 7783-28-0 | AMI. | |
| Ammonium hydroxide (28% or less Ammonia) | 6 | | 1336-21-6 | AMH. | |
| Ammonium lignosulfonate (alternately lignosulphonate) solution, see also Lignin liquor. | | | 8061-53-8 | ALG | LNL. |
| Ammonium nitrate solution (45% or less) | 0 | 1 | 6484-52-2 | AND | AMN/ANR/ANW. |
| Ammonium nitrate solution (93% or less) | 0 | 1 | 6484-52-2 | ANW | AMN/AND/ANR. |
| Ammonium nitrate/Urea solution (containing Ammonia), see Urea/Ammonium nitrate solution (containing 1% or more Ammonia). | | | | | UAS (ANU/UAT/UAU/UAV). |
| Ammonium nitrate/Urea solution (not containing Ammonia), see Urea/Ammonium nitrate solution (containing less than 1% Ammonia). | | | | | UAU (ANU/UAS/UAT/UAV). |
| Ammonium phosphate/Urea solution, see Urea/Ammonium phosphate solution. | | | | | UAP (APP/URE). |
| Ammonium polyphosphate solution | 43 | | 68333-79-9 | AMO. | |
| Ammonium sulfate (alternately sulphate) solution | 43 | | 7783-20-2 | ASW | AME/AMS. |
| Ammonium sulfate (alternately sulphate) solution (20% or less) | 43 | | 7783-20-2 | AME | AMS/ASW. |
| Ammonium sulfide (alternately sulphide) solution (45% or less) | 5 | 3 | 12135-76-1 | ASS | ASF. |
| Ammonium thiocyanate/Ammonium thiosulfate (alternately thiosulphate) solution. | 0 | 1 | | ACV | ACS. |
| Ammonium thiosulfate (alternately thiosulphate) solution (60% or less) | 43 | 3 | 7783-18-8 | ATV | ATF. |
| Amyl acetate (all isomers) | 34 | 3 | 628-63-7 | AEC | IAT/AML/AAS/AYA. |
| Amyl acid phosphate | 34 | | 12789-46-7 | AIA. | |
| Amyl alcohol, primary | 20 | 3 | 71-41-0 | APM | AAI/AAL/AAN/APM/IAA. |
| n-Amyl alcohol | 20 | 3 | 71-41-0 | AAN | AAI/AAL/APM/ASE/IAA. |
| sec-Amyl alcohol | 20 | 3 | 584-02-1 | ASE | AAI/AAL/AAN/APM/IAA. |
| tert-Amyl alcohol | 20 | 3 | 75-85-4 | AAL | AAI/APM/ASE/IAA. |

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|---|-----------|----------|------------|------------|--|
| tert-Amyl ethyl ether | 41 | | 919–94–8 | AER. | |
| tert-Amyl methyl ether | 41 | | 994–05–8 | AYE. | |
| Amyl methyl ketone, <i>see</i> Methyl amyl ketone | | | 110–43–0 | AMJ | MAK (AMK). |
| Amylene, <i>see</i> Pentene (all isomers) | | | 109–67–1 | AMW | PTX (AMX/AMZ/ PTE). |
| <i>tert</i> -Amylenes, <i>see</i> Pentene (all isomers) | | | 513–35–9 | AMZ | PTX (AMW). |
| Aniline | 9 | | 62–53–3 | ANL. | |
| Animal and Fish oils, n.o.s. | 34 | | | AFN. | |
| Including: | | | | | |
| Cod liver oil | 34 | | 8001–69–2 | | |
| Lanolin | 34 | | 8006–54–0 | | |
| Neatsfoot oil | 34 | | 8002–64–0 | | |
| Pilchard oil | 34 | | | | |
| Sperm oil | 34 | | 8002–24–2 | | |
| Animal and Fish acid oils and distillates, n.o.s. | 34 | | | AFA. | |
| Including: | | | | | |
| Animal acid oil | 34 | | | | |
| Fish acid oil | 34 | | | | |
| Lard acid oil | 34 | | | | |
| Mixed acid oil | 34 | | | | |
| Mixed general acid oil | 34 | | | | |
| Mixed hard acid oil | 34 | | | | |
| Mixed soft acid oil | 34 | | | | |
| Anthracene oil (Coal tar fraction), <i>see</i> Coal tar | | | 65996–91–0 | AHO | COR. |
| Apple juice | 43 | | | APJ. | |
| Argon, liquefied | 0 | 1 | 7440–37–1 | ARG. | |
| Aryl polyolefin (C11-C50) | 30 | | | AYF. | |
| Asphalt | 33 | | 8052–42–4 | ASP | ACU. |
| Asphalt blending stocks, roofers flux | 33 | | | ARF. | |
| Asphalt blending stocks, straight run residue | 33 | | | ASR. | |
| Asphalt emulsion | 33 | | | ASQ. | |
| Asphalt, Kerosene, and other components | 33 | | | AKO. | |
| Aviation alkylates (C8 paraffins and isoparaffins BPT 95-120 °C) | 33 | 3 | 111–65–9 | AVA | GAK/GAV. |
| Barium long-chain (C11-C50) alkaryl sulfonate (alternately sulphonate) | 34 | | | BCA. | |
| Barium long-chain alkyl (C8-C14) phenate sulfide (alternately sulphide) | 34 | | | BCH. | |
| Behenyl alcohol | 20 | | 661–19–8 | BHY. | |
| Benzene | 32 | 2 | 71–43–2 | BNZ | BHA/BHB/PYG. |
| Benzene and mixtures having 10% Benzene or more | 32 | | | BHB | BHA/BNZ/PYG. |
| Benzene hydrocarbon mixtures (containing Acetylenes) (having 10% Benzene or more). | 32 | | | BHA | BHB/BNZ/PYG. |
| Benzene/Toluene/Xylene mixtures (having 10% Benzene or more) | 32 | | | BTX | BHB/BNZ/PYG/ TOL/XLX/XLM/ XLO/XLP. |
| Benzenesulfonyl (alternately Benzenesulphonyl) chloride | 0 | 1, 2 | 98–09–9 | BSC. | |
| Benzenetricarboxylic acid, trioctyl ester | 34 | | 89–04–3 | BCE. | |
| Benzyl acetate | 34 | | 140–11–4 | BZE. | |
| Benzyl alcohol | 21 | | 100–51–6 | BAL. | |
| Benzyl chloride | 36 | | 100–44–7 | BCL. | |
| Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point >60 °C (>25% but <99% by volume). | 33 | 3 | | BIF | BIG/BIH/BII/BIJ/ BIK. |
| Bio-fuel blends of Diesel/gas oil and Alkanes (C10-C26), linear and branched with a flash point ≤60 °C (>25% but <99% by volume). | 33 | 3 | | BIG | BIF/BIH/BII/BIJ/ BIK. |
| Bio-fuel blends of Diesel/gas oil and FAME (>25% but <99% by volume) | 34 | 3 | | BIH | BIF/BIG/BII/BIJ/ BIK. |
| Bio-fuel blends of Diesel/gas oil and vegetable oil (>25% but <99% by volume). | 34 | 3 | | BII | BIF/BIG/BIH/BIJ/ BIK. |
| Bio-fuel blends of Gasoline and Ethyl alcohol (>25% but <99% by volume). | 20 | 2, 3 | | BIJ | BIF/BIG/BIH/BII/ BIK. |
| Bis (2-ethylhexyl) terephthalate | 34 | | 6422–86–2 | DHH. | |
| Boronated Calcium sulfonate (alternately sulphonate) | 34 | | | BCU. | |
| Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters. | 20 | 3 | | BFY. | |
| Brominated Epoxy Resin in Acetone | 16 | | | BER. | |
| Bromochloromethane | 36 | | 74–97–5 | BCM. | |
| Butadiene (all isomers) | 30 | | 106–99–0 | BDI. | |
| Butadiene/Butylene mixtures (containing Acetylenes) | 30 | | | BBM | BBX/BDI/BTN/IBL. |
| Butane (all isomers) | 31 | | 106–97–8 | BMX | IBT/BUT. |
| Butane/Propane mixture | 31 | | | BUP | LPG. |
| 1,4-Butanediol, <i>see</i> Butylene glycol | | | 110–63–4 | BDO | BUG. |
| 2-Butanone, <i>see</i> Methyl ethyl ketone | | 2 | 78–93–3 | | MEK. |
| Butene oligomer | 30 | | | BOL. | |
| Butene, <i>see</i> Butylenes (all isomers) | | | 106–98–9 | | BUT/IBL. |
| 2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture) | 20 | | | | |
| Butyl acetate (all isomers) | 34 | 3 | 123–86–4 | BAX | BCN/BTA/BYA/ IBA. |
| Butyl acrylate (all isomers) | 14 | 3 | 141–32–2 | BAR | BAI/BTC. |
| Butyl alcohol (all isomers) | 20 | 2, 3 | 71–36–3 | BAY | BAN/BAS/BAT/ IAL. |
| Butyl alcohol (iso-, n-, sec-, tert-), <i>see</i> Butyl alcohol (all isomers) | | 2 | 71–36–3 | | BAN/BAS/BAT/ BAY/IAL. |

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|--|-----------|----------|-------------|------------|--|
| Butylamine (all isomers) | 7 | 3 | 109-73-9 | BTY | BAM/BTL/BUA/ IAM. AKC. |
| <i>Butylbenzene (all isomers), see Alkyl (C3-C4) benzenes</i> | | 3 | 104-51-8 | BBE | |
| Butyl benzyl phthalate | 34 | | 85-68-7 | BPH. | |
| Butyl butyrate (all isomers) | 34 | 3 | 109-21-7 | BBA | BIB/BUB. |
| Butylene glycol | 20 | 2 | 107-88-0 | BUG | BDO. |
| 1,2-Butylene oxide | 16 | | 106-88-7 | BTO. | |
| Butylenes (all isomers) | 30 | | 106-98-9 | BTN | IBL. |
| n-Butyl ether | 41 | 3 | 142-96-1 | BTE. | |
| n*-Butyl ether | 41 | | 142-96-1 | BTE. | |
| <i>iso-Butyl formate, see Isobutyl formate</i> | | 3 | 542-55-2 | BFI | BFN/BFO. |
| n-Butyl formate | 34 | | 592-84-7 | BFN | BFI/BFO. |
| Butyl heptyl ketone | 18 | | 19780-10-0 | BHK. | |
| Butyl methacrylate | 14 | | 97-88-1 | BMH | BMI/BMN. DER (BMH/BMI/ BMN/CEM). |
| <i>Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture, see Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture.</i> | | 3 | | | |
| Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture | 14 | 3 | | DER | BMH/BMI/BMN/ CEM. MBJ (MBK/MIK). |
| <i>Butyl methyl ketone, see Methyl butyl ketone</i> | | 2 | 591-78-6 | | |
| Butyl phenol, Formaldehyde resin in Xylene | 32 | | | | |
| n-Butyl propionate | 34 | | 209-669-5 | BPN. | |
| Butyl stearate | 34 | | 123-95-5 | BST. | |
| Butyl toluene | 32 | | 1595-05-7 | BUE. | |
| Butyraldehyde (all isomers) | 19 | 3 | 123-72-8 | BAE | BAD/BTR. |
| Butyric acid | 4 | | 107-92-6 | BRA | IBR. |
| gamma-Butyrolactone | 0 | 1, 2 | 96-48-0 | BLA. | |
| C9 Resinfeed (DSM) | 32 | | | CNR. | |
| <i>Calcium alkaryl sulfonate (alternately sulphonate) (C11-C50), see Calcium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50).</i> | | 3 | | CAE | CAY. |
| Calcium alkyl (C9) phenol sulfide (alternately sulphide), polyolefin phosphorosulfide (alternately phosphorosulphide) mixture. | 34 | | | CPX. | |
| Calcium alkyl (C10-C28) salicylate | 34 | 3 | | CAJ. | |
| <i>Calcium bromide solution, see Drilling brines</i> | | | 7789-41-5 | CBI | DRB. CAJ/CAK/CAZ. |
| <i>Calcium alkyl salicylate, see Calcium long-chain alkyl salicylate (C13+), Calcium long-chain alkyl (C18-C28) salicylate, or Calcium alkyl (C10-C28) salicylate.</i> | | | | | |
| <i>Calcium bromide solution, see Drilling brines</i> | | | 7789-41-5 | CBI | DRB. DZB. |
| <i>Calcium bromide/Zinc bromide solution, see Drilling brine (containing Zinc salts).</i> | | | | | |
| Calcium carbonate slurry | 34 | | 471-34-1 | CSR. | |
| <i>Calcium chloride solution, see Drilling brines</i> | | | 10043-52-4 | CCS | CLC. |
| Calcium hydroxide slurry | 5 | | 1305-62-0 | COH | CAH. |
| Calcium hypochlorite solution (15% or less) | 5 | 3 | 7778-54-3 | CHU | CHY/CHZ. |
| Calcium hypochlorite solution (more than 15%) | 5 | 3 | 7778-54-3 | CHZ | CHU/CHY. |
| <i>Calcium lignosulfonate (alternately lignosulphonate) solution, see also Lignin liquor.</i> | | | 8061-52-7 | CLL | LNL. |
| Calcium long-chain alkaryl sulfonate (alternately sulphonate) (C11-C50) | 34 | | 722503-69-7 | CAY. | |
| <i>Calcium long-chain alkyl (C8-C40) phenate, see Calcium long-chain alkyl (C5-C10) phenate or Calcium long-chain alkyl (C11-C40) phenate.</i> | | | | CAQ | CAU/CAV (CAN/ CAW). |
| Calcium long-chain alkyl (C5-C10) phenate | 34 | 3 | | CAU | CAN/CAQ/CAV/ CAW. |
| Calcium long-chain alkyl (C5-C20) phenate | 34 | | | CAV | CAN/CAQ/CAU/ CAW. |
| Calcium long-chain alkyl (C11-C40) phenate | 34 | 3 | | CAW | CAN/CAQ/CAU/ CAW. |
| Calcium long-chain alkyl phenate sulfide (alternately sulphide) (C8-C40) | 34 | | | CPI. | |
| Calcium long-chain alkyl phenolic amine (C8-C40) | 9 | | | CPQ. | |
| Calcium long-chain alkyl (C18-C28) salicylate | 34 | 3 | | CAJ. | |
| Calcium long-chain alkyl salicylate (C13+) | 34 | | | CAK | CAJ/CAZ. |
| Calcium nitrate solutions (50% or less) | 34 | 3 | 10124-37-5 | CNU | CNT. |
| Calcium nitrate/Magnesium nitrate/Potassium chloride solution | 34 | | | CLM | CNT/CNU/MGN/ MGO/PCS/ PCU/PSD. |
| Calcium salts of fatty acids | 34 | | 85251-71-4 | CFF. | |
| Calcium stearate | 34 | | 1592-23-0 | CSE. | |
| Calcium sulfonate (alternately sulphonate)/Calcium carbonate/Hydrocarbon solvent mixture. | 33 | | | CSH. | |
| <i>Camelina oil, see Oil, misc.: Camelina</i> | | 3 | 68956-68-3 | CEL. | |
| Camphor oil (light) | 18 | | 8008-51-3 | CPO. | |
| <i>Canola oil, see Oil, edible: Rapeseed (low erucic acid containing less than 4% free fatty acids).</i> | | | 120962-03-0 | | ORO (ORP). |
| <i>Caprolactam solution, see epsilon-Caprolactam (molten or aqueous solutions).</i> | | | 105-60-2 | CLS. | |
| epsilon-Caprolactam (molten or aqueous solutions) | 22 | 3 | 105-60-2 | CLU | CLS. |
| Caramel solutions | 43 | | 8028-89-5 | CML. | |
| Carbolic oil | 21 | | 108-95-2 | CBO. | |
| Carbon dioxide (high purity) | 0 | 1 | 124-38-9 | CDH | CDO/CDQ. |
| Carbon dioxide (reclaimed quality) | 0 | 1 | 124-38-9 | CDQ | CDH/CDQ. |
| Carbon dioxide, liquefied | 0 | 1 | 124-38-9 | CDO | CDH/CDQ. |
| Carbon disulfide (alternately disulphide) | 38 | | 75-15-0 | CBB. | |

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|--|-----------|----------|------------------------|------------|------------------------------------|
| Carbon tetrachloride | 36 | 2 | 56-23-5 | CBT | CBU. |
| Cashew nut shell oil (untreated), see Oil, misc.: Cashew nut shell (untreated). | | | 8007-24-7 | | OCN. |
| Castor oil, see Oil, edible: Castor | 34 | | 8001-79-4 | | OCA (VEO). |
| Catoxid feedstock | 36 | 2 | | CXF. | |
| Caustic potash solution | 5 | 2 | 1310-58-3 | CPS. | |
| Caustic soda solution | 5 | 2 | 1310-73-2 | CSS. | |
| Cesium formate solution | 43 | 3 | 3495-36-1 | CSM. | |
| Cetyl alcohol (Hexadecanol), see Alcohols (C13+) | | | 36653-82-4 | | ALY (ASY/AYL). |
| Cetyl alcohol, see Alcohols (C13 +) | 20 | | 36653-82-4 | | ALY (ASY/AYL). |
| Cetyl/Eicosyl methacrylate mixture | 14 | 1 | | GEM. | |
| Cetyl/Stearyl alcohol, see Alcohols (C13+) | | | | | ALY (ASY/AYL). |
| Chlorinated paraffins (C10-C13) | 36 | | * 1002-69-3 | CLH | CLG/CLJ/CLQ. |
| Chlorinated paraffins (C14-C17) (with 50% Chlorine or more, and less than 1% C13 or shorter chains). | 36 | 3 | | CLJ | CLG/CLH/CLQ. |
| Chlorinated paraffins (C14-C17) (with 52% Chlorine) | 36 | | | CLQ | CLG/CLH/CLJ. |
| Chlorinated paraffins (C18+) with any level of chlorine | 36 | | * 3386-33-2 | CLG | CLH/CLJ. |
| Chlorine | 0 | 1 | 7782-50-5 | CLX | |
| Chloroacetic acid (80% or less) | 4 | 3 | 79-11-8 | CHM | CHL/MCA. |
| Chlorobenzene | 36 | 2 | 108-90-7 | CRB. | |
| Chlorodifluoromethane, see Monochlorodifluoromethane | | | 75-45-6 | MCF. | |
| 2-Chloro-4-ethylamino-6-isopropylamino-5-triazine solution | 0 | 1 | 287476-17-9 | CET. | |
| 1-(4-Chlorophenyl)-4,4-dimethyl pentan-3-one | 18 | 2 | 66346-01-8 | CDP. | |
| 2- or 3-Chloropropionic acid | 4 | | 29617-66-1 or 107-94-8 | CPM | CLA/CLP. |
| Chloroform | 36 | | 67-66-3 | CRF. | |
| Chlorohydrins (crude) | 17 | 3 | * 107-07-3 | CHD. | |
| 4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution | 9 | | | CDM. | |
| o-Chloronitrobenzene | 42 | | 88-73-3 | CNO | CNP. |
| Chlorosulfonic (alternately Chlorosulphonic) acid | 0 | 1 | 7790-94-5 | CSA. | |
| m-Chlorotoluene | 36 | 3 | 108-41-8 | CTM | CHI/CRN/CTO. |
| o-Chlorotoluene | 36 | 3 | 95-49-8 | CTO | CHI/CRN/CTM. |
| p-Chlorotoluene | 36 | 3 | 106-43-4 | CRN | CHI/CTM/CTO. |
| Chlorotoluenes (mixed isomers) | 36 | 3 | 25168-05-2 | CHI | CRN/CTM/CTO. |
| Choline chloride solutions | 20 | | 67-48-1 | CCO. | |
| Citric acid (70% or less) | 4 | 3 | 77-92-9 | CIS | CIT. |
| Clay slurry | 43 | | 1332-58-7 | CLY. | |
| Coal slurry | 43 | | 125612-26-2 | COG | COA. |
| Coal tar | 33 | | 8007-45-2 | COR | OCT. |
| Coal tar crude bases | 33 | | 65996-84-1 | CTB. | |
| Coal tar distillate, see Naphtha: Coal tar solvent | | | 65996-91-0 | CDL | NCT (CTU). |
| Coal tar naphtha solvent, see Naphtha: Coal tar solvent | | | 65996-91-0 | | NCT (CDL/CTU). |
| Coal tar pitch (molten) | 33 | 3 | 65996-93-2 | CTP. | |
| Coal tar, high temperature | 33 | | 65996-89-6 | CHH. | |
| Cobalt naphthenate in solvent naphtha | 34 | | 61789-51-3 | CNS. | |
| Cocoa butter, see Oil, edible: Cocoa butter | | | 8002-31-1 | | OCB (VEO). |
| Coconut oil, see Oil, edible: Coconut | | 2 | 8001-31-8 | | OCC (VEO). |
| Coconut oil, fatty acid, see Oil, misc.: Coconut fatty acid | | 2 | 61788-47-4 | | CFA. |
| Coconut oil, fatty acid methyl ester, see Oil, misc.: Coconut fatty acid methyl ester. | | 3 | 61788-59-8 | | OCM. |
| Copper salt of long-chain (C17 +) alkanolic acid | 34 | | | CUS | CFT. |
| Copper salt of long-chain (C3-C16) fatty acid | 34 | | * 3112-74-1 | CFT | CUS. |
| Corn oil, see Oil, edible: Corn | | | 8001-30-7 | | OCO (VEO). |
| Corn syrup | 43 | | 8029-43-4 | CSY. | |
| Cottonseed oil, see Oil, edible: Cottonseed | | | 8001-29-4 | | OCS (VEO). |
| Cottonseed oil, fatty acid, see Oil, misc.: Cottonseed oil, fatty acid | | | 68308-51-0 | CFY. | |
| Creosote | 21 | 2 | | CCW | CCT/CWD. |
| Creosote (coal tar) | 21 | 2, 3 | 8001-58-9 | CCT | CCW. |
| Creosote (wood tar) | 21 | 2, 3 | 8021-39-4 | CWD | CCT/CCW. |
| Cresol/Phenol/Xylenol mixture | 21 | | | CXX. | |
| Cresols (all isomers) | 21 | 3 | 1319-77-3 | CRS | CFO/CFP/CRL/ CRO/CSC/CSO. |
| Cresols with 5% or more Phenol, see Phenol | | | | CFP | PHN (CFO/CRL/ CRO/CRS/ CSO). |
| Cresols with less than 5% Phenol, see Cresols (all isomers) | | | | CFO | CRS (CFP/CRL/ CRO/CSO). |
| Cresylate spent caustic, see Cresylic acid, sodium salt solution | | 2 | | CSC | CYD. |
| Cresylic acid | 21 | | 1319-77-3 | CRY. | |
| Cresylic acid, dephenolized | 21 | | 1319-77-3 | CAD | CRY/CYN. |
| Cresylic acid tar | 21 | | | CRX. | |
| Cresylic acid with 5% or more phenol | 21 | | | CYN | CAD/CRY. |
| Cresylic acid, sodium salt solution | 5 | 2 | 34689-46-8 | CYD | CSC. |
| Crotonaldehyde | 19 | 2 | 123-73-9 | CTA. | |
| Crude Isononylaldehyde, see Isononylaldehyde (crude) | | | 5435-64-3 | | INC. |
| Crude Isopropanol | 20 | | 67-63-0 | | IPB (IPA/PAL). |
| Crude Piperazine, see Piperazine (crude) | | | 110-85-0 | | PZC (PPZ/PIZ). |
| Cumene, see Alkyl(C3-C4) benzenes | | | 98-82-8 | CUM | AKD (PBY/PBZ). |
| 1,5,9-Cyclododecatriene | 30 | | 4904-61-4 | CYT. | |
| Cycloheptane | 31 | | 291-64-5 | CYE. | |

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

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

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|--|-----------|----------|------------|------------|--------------------------------------|
| Dichloropropene (all isomers) | 15 | | 26952–23–8 | DCW | DPF/DPU. |
| 1,3-Dichloropropene | 15 | | 542–75–6 | | DCW/DPF. |
| Dichloropropene/Dichloropropane mixtures | 15 | | 8003–19–8 | DMX | DCW/DPB/DPC/ DPL/DPP/DPU/ DPX. |
| 2,2-Dichloropropionic acid | 4 | | 75–99–0 | DCN. | |
| Dicyclopentadiene, Resin Grade, 81–89% | 30 | 3 | 77–73–6 | DPV | CPD/DPT. |
| <i>Dicyclopentadiene, see 1,3-Cyclopentadiene dimer (molten)</i> | | | 77–73–6 | DPT | CPD (DPV). |
| Diethanolamine | 8 | 2 | 111–42–2 | DEA. | |
| <i>Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 2,4-Dichlorophenoxyacetic acid, Diethanolamine salt solution.</i> | | | 5742–19–8 | DZZ | DDE. |
| Diethylamine | 7 | | 109–89–7 | DEN. | |
| Diethylaminoethanol | 8 | | 100–37–8 | DAE. | |
| 2,6-Diethylaniline | 9 | | 579–66–8 | DMN | DIY. |
| Diethylbenzene | 32 | | 25340–17–4 | DEB. | |
| Diethylene glycol | 40 | 2 | 111–46–6 | DEG. | |
| <i>Diethylene glycol butyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i> | | | 112–34–5 | DME | PAG. |
| <i>Diethylene glycol butyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate.</i> | | | 124–17–4 | DEM | PAF. |
| Diethylene glycol dibenzoate | 34 | | 120–55–8 | DGZ. | |
| Diethylene glycol dibutyl ether | 40 | | 112–73–2 | DIG. | |
| Diethylene glycol diethyl ether | 40 | | 112–36–7 | DGS. | |
| <i>Diethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether.</i> | | | 111–90–0 | DGE | PAG. |
| <i>Diethylene glycol ethyl ether acetate, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate.</i> | | | 112–15–2 | DGA | PAF. |
| <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> | | | 28553–12–0 | DIN | DAH. |
| <i>Diisooctyl phthalate, see Dialkyl (C7-C13) phthalate</i> | | 2 | 27554–26–3 | DIO | DAH/(DIE/DOP). |
| Diisopropanolamine | 8 | | 110–97–4 | DIP. | |
| Diisopropylamine | 7 | | 108–18–9 | DIA | DNA. |
| Diisopropylbenzene (all isomers) | 32 | | 25321–09–9 | DIX. | |
| Diisopropylinaphthalene | 32 | | 24157–81–1 | DII. | |
| 1,4-Dihydro-9,10-dihydroxy anthracene, disodium salt solution | 5 | | 73347–80–5 | DDH. | |
| N,N-Dimethylacetamide | 10 | | 127–19–5 | DAC | DLS. |
| N,N-Dimethylacetamide solution (40% or less) | 10 | 3 | 127–19–5 | DLS | DAL. |
| Dimethyl adipate | 34 | | 627–93–0 | DLA. | |
| Dimethylamine | 7 | | 124–40–3 | DMA | DMC/DMG/DMY. |
| <i>Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution, see 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. |

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

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

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

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

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

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

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

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

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

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

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

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

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|--|-----------|----------|------------|------------|------------------------------|
| Molasses residue (from fermentation) | 0 | 1 | 94114-07-5 | MON | MOL. |
| Molybdenum polysulfide (alternately polysulphide) long-chain alkyl dithiocarbamide complex. | 0 | 1, 3 | 1317-33-5 | MOP. | |
| Monochlorodifluoromethane | 36 | | 75-45-6 | MCF. | |
| <i>Monoethanolamine, see Ethanolamine</i> | | | 141-43-5 | MEA. | |
| <i>Monoethylamine, see Ethylamine</i> | | | 75-04-7 | | EAM (EAN/EAO). |
| <i>Monoisopropanolamine, see Isopropanolamine</i> | | | 78-96-6 | | MPA (PLA/PLX). |
| Morpholine | 7 | 2 | 110-91-8 | MPL. | |
| Motor fuel anti-knock compound (containing lead alkyls) | 0 | 1 | | MFA. | |
| <i>MTBE, see Methyl tert-butyl ether</i> | | | 1634-04-4 | | MBE. |
| Myrcene | 30 | | 123-35-3 | MRE. | |
| Naphtha: | | | | | |
| Aromatic | 33 | | 64742-94-5 | NAR. | |
| Coal tar solvent | 33 | | 8030-30-6 | NCT. | |
| Heavy | 33 | | 64742-94-5 | NAG. | |
| Paraffinic | 33 | | 8012-95-1 | NPF. | |
| Petroleum | 33 | | 64742-94-5 | PTN. | |
| Solvent | 33 | | 64742-94-5 | NSV. | |
| Stoddard solvent | 33 | | 8052-41-3 | NSS. | |
| Varnish Makers' and Painters' | 33 | | 8032-32-4 | NVM. | |
| Naphthalene (molten) | 32 | 3 | 91-20-3 | NTM. | |
| Naphthalene crude (molten) | 32 | | 91-20-3 | NCM | NAC/NCD. |
| Naphthalene still residue | 32 | 2 | 91-20-3 | NSR. | |
| Naphthalene sulfonic (alternately sulphonic) acid, sodium salt solution | 34 | | 85-47-2 | NSB | NSA. |
| Naphthalene sulfonic (alternately sulphonic) acid-Formaldehyde copolymer, sodium salt solution. | 0 | 1 | 85-47-2 | NFS. | |
| Naphthenic acid | 4 | | 1338-24-5 | NTI. | |
| Naphthenic acid, sodium salt solution | 43 | | 61790-13-4 | NTS. | |
| Neodecanoic acid | 4 | | 26896-20-8 | NEA | DCO/NAT. |
| Nitrating acid (mixture of Sulfuric (alternately Sulphuric) and Nitric acids) | 0 | 1 | 7697-37-2 | NIA. | |
| Nitric acid (70% and over) | 3 | 2, 3 | 7697-37-2 | NCE | NAC/NCD. |
| Nitric acid (less than 70%) | 3 | 2 | 7697-37-2 | NCD | NAC/NCE. |
| <i>Nitric Acid, fuming, see Nitric acid (70% and over)</i> | | 1, 2, 3 | 7697-37-2 | | NCE. |
| <i>Nitric Acid, red fuming, see Nitric acid (70% and over)</i> | | 1, 2, 3 | 52583-42-3 | | NCE. |
| Nitrioltriacetic acid, trisodium salt solution | 34 | 3 | 139-13-9 | NCA. | |
| Nitrobenzene | 42 | | 98-95-3 | NTB. | |
| <i>o-Nitrochlorobenzene, see o-Chloronitrobenzene</i> | | | 88-73-3 | | CNO (CNP). |
| Nitroethane | 42 | | 79-24-3 | NTE. | |
| Nitroethane (80%)/Nitropropane (20%) | 42 | 2, 3 | | NNL | NNM/NNO/NPM/ NPN/NPP/NTE. |
| Nitroethane/1-Nitropropane (each 15% or more) mixture | 42 | 2 | | NNO | NNL/NNM/NPM/ NPN/NPP/NTE. |
| Nitrogen | 0 | 1 | 7727-37-9 | NXX. | |
| Nitrophenol (mixed isomers) | 42 | | 88-75-5 | NPX | NIP/NPH. |
| <i>o-Nitrophenol (molten)</i> | 0 | 1, 2 | 88-75-5 | NTP | NIP/NPH/NPX. |
| Nitropropane (60%)/Nitroethane (40%) mixture | 42 | | | NNM | NNL/NNO/NPM/ NPN/NPP/NTE. |
| 1-or 2-Nitropropane | 42 | | 108-03-2 | NPM | NPN/NPP. |
| <i>o- or p-Nitrotoluenes</i> | 42 | 3 | 99-99-0 | NIT | NIE/NTR/NTT. |
| <i>Nonane (all isomers), see Alkanes (C6-C9)</i> | | | 111-84-2 | NAX | ALK (NAN). |
| Nonanoic acid (all isomers) mixture | 4 | | 112-05-0 | NNA | NAI/NIN. |
| Nonanoic/Tridecanoic acid mixture | 4 | | | NAT | NAI/NIN/NAA. |
| <i>Non-edible industrial grade palm oil, see Oil, misc.: Palm, non-edible industrial grade.</i> | | | 8002-75-3 | | OPB. |
| Nonene (all isomers) | 30 | 2 | 124-11-8 | NOO | NNE/NON/OAM/ OFX/OFY. |
| Nonyl acetate | 34 | | 143-13-5 | NAE. | |
| Nonyl alcohol (all isomers) | 20 | 2 | 143-08-8 | NNS | ALR/DBC/NNI/ NNN. |
| <i>Nonylbenzene, see Alkyl (C9+) benzenes</i> | | | 1081-77-2 | | AKB. |
| Non-noxious Liquid Substance, (12) n.o.s. Cat OS | 0 | 1 | | NOL. | |
| Nonyl methacrylate monomer | 14 | | 2696-43-7 | NMA. | |
| Nonyl phenol | 21 | | 25154-52-3 | NNP. | |
| <i>Nonyl phenol poly(4+)ethoxylate, see Alkyl (C7-C11) phenol poly(4-12) ethoxylate.</i> | | | 9016-45-9 | NPE | APN. |
| <i>Nonyl phenol sulfide (alternately sulphide) (90% or less) solution, see Alkyl (C8-C40) phenol sulfide (alternately sulphide).</i> | | | 34992-00-2 | | AKS (NPS). |
| Nonylphenol (48-62%)/Phenol (42-48%)/Dinonylphenol (1-10%) mixture | 21 | | | NYL. | |
| Noxious Liquid Substance, NF, (1) n.o.s. ("trade name" contains "principal components") Cat X. | 0 | 1 | | | |
| Noxious Liquid Substance, F, (2) n.o.s. ("trade name" contains "principal components") Cat X. | 0 | 1 | | | |
| Noxious Liquid Substance, NF, (3) n.o.s. ("trade name" contains "principal components") Cat X. | 0 | 1 | | | |
| Noxious Liquid Substance, F, (4) n.o.s. ("trade name" contains "principal components") Cat X. | 0 | 1 | | | |
| Noxious Liquid Substance, NF, (5) n.o.s. ("trade name" contains "principal components") Cat Y. | 0 | 1 | | | |
| Noxious Liquid Substance, F, (6) n.o.s. ("trade name" contains "principal components") Cat Y. | 0 | 1 | | | |

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

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

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

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

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|---|-----------|----------|-------------|------------|---------------------|
| <i>Oleyl alcohol</i> , see Alcohols (C13+) | | | 143–28–2 | OYL | ALY (ASY). |
| Oleylamine | 7 | | 112–90–3 | OLY. | |
| <i>Olive oil</i> , see Oil, edible: Olive | | | 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</i> , see Asphalt emulsion | | | | | ASQ. |
| Oxyalkylated alkyl phenol formaldehyde | 33 | | 9003–35–4 | OPF. | |
| Oxygenated aliphatic hydrocarbon mixture | 0 | 1, 3 | | OAH. | |
| <i>Palm acid oil</i> , see Oil, misc.: Palm acid | | | 68440–15–3 | | PLM. |
| <i>Palm fatty acid distillate</i> , see Oil, misc.: Palm fatty acid distillate | | | | | PFD. |
| <i>Palm kernel acid oil</i> , see Oil, misc.: Palm kernel acid | | | 101403–98 | | PNO. |
| <i>Palm kernel acid oil, methyl ester</i> , see Oil, misc.: Palm kernel acid, methyl ester. | | | | | PNF. |
| <i>Palm kernel oil</i> , see Oil, edible: Palm kernel | | | 8023–79–8 | | OPO (VEO). |
| <i>Palm kernel oil fatty acid distillate</i> , see Oil, misc.: Palm kernel fatty acid distillate. | | | | | PNG. |
| <i>Palm kernel olein</i> , see Oil, edible: Palm kernel olein | | | 93334–39–5 | | PKO (VEO). |
| <i>Palm kernel stearin</i> , see Oil, edible: Palm kernel stearin | | | | | PKS (VEO). |
| <i>Palm mid fraction</i> , see Oil, edible: Palm mid fraction | | | 91079–14–0 | | PFM (VEO). |
| <i>Palm oil</i> , see Oil, edible: Palm | | | 8002–75–3 | OPM | VEO/OPE. |
| <i>Palm oil fatty acid methyl ester</i> , see Oil, misc.: Palm fatty acid methyl ester. | | | | | OPE. |
| <i>Palm olein</i> , see Oil, edible: Palm olein | | | 93334–39–5 | | PON (VEO). |
| <i>Palm stearin</i> , see Oil, edible: Palm stearin | | | 91079–14–0 | | PMS (VEO). |
| Parachlorobenzotrifluoride | 32 | | 98–56–6 | PBF. | |
| <i>Paraffin wax</i> , see Waxes: Paraffin | | | 8002–74–2 | | WPF. |
| <i>n-Paraffins (C10-C20)</i> , see n-Alkanes (C10+) all isomers | | | | PFN | ALJ. |
| Paraldehyde | 19 | | 123–63–7 | PDH. | |
| Paraldehyde-Ammonia reaction product | 9 | | | PRB. | |
| <i>Peanut</i> , see Oil, edible: Peanut | | | 8002–03–7 | | OPN (VEO). |
| Pentachloroethane | 36 | | 76–01–7 | PCE. | |
| Pentacosa (oxypropane-2,3-diyl)s | 20 | | 923–61–5 | POY. | |
| <i>Pentadecanol</i> , see Alcohols (C13+) | | | 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</i> , see Polyethylene glycols | | | 4792–15–8 | | PEG. |
| <i>Pentaethylene glycol methyl ether</i> , see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether. | | | 23778–52–1 | | PAG. |
| Pentaethylenhexamine | 7 | | 4067–16–7 | PEN. | |
| Pentaethylenhexamine/Tetraethylenepentamine mixture | 7 | | | PEP. | |
| Pentane (all isomers) | 31 | | 109–66–0 | PTY | IPT/PTA. |
| Pentanoic acid | 4 | | 109–52–4 | POC. | |
| <i>n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture</i> | 4 | | | POJ | POC. |
| <i>Pentasodium salt of Diethylenetriaminepentaacetic acid solution</i> , see Diethylenetriaminepentaacetic acid, pentasodium salt solution. | | | 140–01–2 | | DYS. |
| Pentene (all isomers) | 30 | | 109–67–1 | PTX | PTE. |
| Pentyl aldehyde | 19 | | 110–62–3 | PYL. | |
| <i>n-Pentyl propionate</i> | 34 | | 624–54–4 | PPE. | |
| Perchloroethylene | 36 | 2 | 127–18–4 | PER | TTE. |
| Petrolatum | 33 | | 8009–03–8 | PTL. | |
| Phenol | 21 | 2 | 108–95–2 | PHN | PNS. |
| Phenol solutions (2% or less) | 43 | | 108–95–2 | PNS | PHN. |
| 1-Phenyl-1-xylyl ethane | 32 | | 6196–96–8 | PXE. | |
| Phosphate esters | 34 | | 68130–47–2 | PZE. | |
| Phosphate esters, alkyl (C12-C14) amine | 7 | | | PEA. | |
| [[[(Phosphonomethyl-)imino]bis[ethylenenitro]bis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less). | 3 | | | PES. | |
| Phosphoric acid | 1 | 2 | 7664–38–2 | PAC. | |
| Phosphorus, yellow or white | 0 | 1 | 7723–14–0 | PPW | PPB/PPR. |
| Phosphosulfurized (alternately Phosphosulphurized) bicycle terpene | 0 | 1 | | PBT. | |
| Phthalate based polyester polyol | 0 | 1, 2 | 32472–85–8 | PBE. | |
| Phthalic anhydride (molten) | 11 | | 85–44–9 | PAN. | |
| <i>PIB</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. |

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|--|-----------|----------|-------------|------------|---------------------|
| Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether | 40 | 2 | | PAG. | |
| <i>Including:</i> | | | | | |
| Diethylene glycol butyl ether | 40 | | 112-34-5 | | |
| Diethylene glycol ethyl ether | 40 | | 111-90-0 | | |
| Diethylene glycol n-hexyl ether | 40 | | 112-59-4 | | |
| Diethylene glycol methyl ether | 40 | | 111-77-3 | | |
| Diethylene glycol propyl ether | 40 | | 6881-94-3 | | |
| Dipropylene glycol butyl ether | 40 | | 112-34-5 | | |
| Dipropylene glycol methyl ether | 40 | | 34590-94-8 | | |
| Polyalkylene glycol butyl ether | 40 | | 111-76-2 | | |
| Polyethylene glycol monoalkyl ether | 40 | | 111-80-5 | | |
| Polypropylene glycol methyl ether | 40 | | 34590-94-8 | | |
| Tetraethylene glycol methyl ether | 40 | | 23783-42-8 | | |
| Triethylene glycol butyl ether | 40 | | 143-22-6 | | |
| Triethylene glycol ethyl ether | 40 | | 112-50-5 | | |
| Triethylene glycol methyl ether | 40 | | 112-35-6 | | |
| Tripropylene glycol methyl ether | 40 | | 25498-49-1 | | |
| Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate | 34 | | | PAF. | |
| <i>Including:</i> | | | | | |
| Diethylene glycol butyl ether acetate | 34 | | 124-17-4 | | |
| Diethylene glycol ethyl ether acetate | 34 | | 112-15-2 | | |
| Diethylene glycol methyl ether acetate | 34 | | 110-49-6 | | |
| Polyalkylene oxide polyol | 20 | | | PAO. | |
| Polyalkylene glycols/Polyalkylene glycol monoalkyl ethers mixtures | 40 | | | PPX. | |
| Polyalkylene oxide polyol | 20 | | | PAO. | |
| Polyalkyl (C10-C20) methacrylate | 14 | | 221-657-1 | PMT | PYY. |
| Polyalkyl methacrylate in mineral oil | 14 | | | PYY | PMT. |
| Polyalkyl (C10-C18) methacrylate/Ethylene-propylene copolymer mixture | 14 | | | PEM. | |
| Polyalpha olefins | 31 | | 115-07-1 | PYO. | |
| Polyaluminum (alternately Polyaluminium) chloride solution | 1 | | 1327-41-9 | PLS. | |
| Polybutadiene, hydroxyl terminated | 20 | | 69102-90-5 | PHT. | |
| Polybutene | 33 | | 9003-29-6 | PLB. | |
| Polybutenyl succinimide | 10 | | 84605-20-9 | PBS. | |
| Polycarboxylic ester (C9+), see Ditridecyl adipate | | | 16958-92-2 | | DTY. |
| Poly(2+)cyclic aromatics | 32 | | 91-20-3 | PCA. | |
| Polydimethylsiloxane, see Dimethylpolysiloxane | | | 9016-00-6 | | DMP. |
| Polyether, borated | 41 | | | PED. | |
| Polyether (molecular weight 1350+) | 41 | | | PYR. | |
| Polyether polyols | 41 | | 25214-63-5 | PEO. | |
| Polyethylene glycol | 40 | | 25322-68-3 | PEG. | |
| Polyethylene glycol dimethyl ether | 40 | | 24991-55-7 | PEF. | |
| Poly(ethylene glycol) methylbutenyl ether (molecular weight >1000) | 40 | | | PBN. | |
| Polyethylene glycol monoalkyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether. | | | 111-77-3 | PEE | PAG. |
| Polyethylene polyamines | 7 | 2 | 109-89-7 | PEB | PEY. |
| Polyethylene polyamines (more than 50% C5-C20 Paraffin oil) | 7 | 2, 3 | | PEY | PEB. |
| Polyferric sulfate (alternately sulphate) solution | 34 | | 51434-22-1 | PSS. | |
| Polyglycerine/Sodium salts solution (containing less than 3% Sodium hydroxide). | 20 | 2 | | PGT | PGS. |
| Polyglycerol | 20 | | 25618-55-7 | PGL. | |
| Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less) | 7 | 3 | | PIG | PIM. |
| Polyisobutenamine in aliphatic (C10-C14) solvent | 7 | 2 | | PIB | PIA. |
| (Polyisobutene) amino products in aliphatic hydrocarbons | 7 | 3 | | | |
| Polyisobutenyl anhydride adduct | 11 | | | PBA. | |
| Polyisobutenyl succinimide | 10 | | 84605-20-9 | PIS. | |
| Poly(4+)isobutylene (molecular weight >224) | 30 | 3 | 9003-27-4 | PIL. | |
| Polyisobutylene (molecular weight ≤224) | 30 | 3 | 9003-27-4 | PIL. | |
| Polyisobutylene succinic anhydride | 11 | | 67762-77-0 | PYS. | |
| Polymerized esters | 34 | | | PYM. | |
| Polymethylene polyphenyl isocyanate | 12 | 2 | 9016-87-9 | PPI. | |
| Polymethylsiloxane | 34 | | 9006-65-9 | PMX. | |
| Polyolefin (molecular weight 300+) | 33 | | | PMW | PLF. |
| Polyolefin amide alkeneamine (C17+) | 33 | | | POH | POD. |
| Polyolefin amide alkeneamine (C28+), see Polyolefin amide alkenamine (C17+). | | | | POD | POH. |
| Polyolefin amide alkeneamine borate (C28-C250) | 33 | | 134758-95-5 | PAB. | |
| Polyolefin amide alkeneamine in mineral oil | 33 | | | PLK. | |
| Polyolefin amide alkeneamine/Molybdenum oxysulfide (alternately oxysulphide) mixture. | 7 | | | PMO. | |
| Polyolefin amide alkeneamine polyol | 20 | | | PAP. | |
| Polyolefin amine (C17+) | 7 | | 98761-78-5 | POG. | |
| Polyolefinamine (C28-C250) | 33 | | | POM. | |
| Polyolefinamine in alkyl(C2-C4) benzenes | 32 | | | POF | POR. |
| Polyolefinamine in aromatic solvent | 32 | 3 | | POR | POF. |
| Polyolefin aminoester salts (molecular weight 2000+) | 34 | | | PAE. | |
| Polyolefin anhydride | 11 | | 9006-26-2 | PAR. | |
| Polyolefin ester (C28-C250) | 34 | | | POS. | |
| Polyolefin in mineral oil | 30 | | | PLF | PMW. |
| Polyolefin phenolic amine (C28-C250) | 9 | | | PPH. | |
| Polyolefin phosphorosulfide (alternately phosphorosulphide), barium derivative (C28-C250). | 34 | | | PPS. | |

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

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

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|---|-----------|----------|-------------|------------|----------------------------|
| <i>Resin oil, distilled, see Oil, misc.: Resin, distilled</i> | | 3 | | | ORR (ORS). ORB. |
| <i>Rice bran oil, see Oil, edible: Rice bran</i> | | | 68553-81-1 | | |
| Rosin soap (disproportionated) solution | 43 | | 61790-50-9 | RSP. | |
| <i>Rosin, see Oil, misc.: Rosin</i> | | | 8050-09-7 | | ORN. ABV. |
| <i>Rum, see Alcoholic beverages, n.o.s.</i> | | | 64-17-5 | | |
| <i>Safflower oil, see Oil, edible: Safflower</i> | | | 8001-23-8 | | OSF (VEO). |
| Sewage sludge | 43 | | | SWS. | |
| <i>Shea butter, see Oil, edible: Shea butter</i> | | 3 | 194043-92-0 | | OSH (VEO). |
| Silica slurry | 43 | | 69012-64-2 | SLC. | |
| Siloxanes | 34 | | 9011-19-2 | SLX. | |
| Sludge, treated | 43 | | | SWA. | |
| Sodium acetate solutions | 34 | | 127-09-3 | SAN. | |
| Sodium acetate, Glycol, Water mixture (containing 1% or less Sodium hydroxide) (if non-flammable or non-combustible). | 5 | 2 | | SAY | SAO/SAP/SAQ/ SAY. |
| Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide) | 5 | | | SAQ | SAO/SAP/SAW/ SAY. |
| Sodium acetate, Glycol, Water mixture (not containing Sodium hydroxide) | 34 | 2 | | SAW | SAO/SAP/SAQ/ SAY. |
| Sodium alkyl (C14-C17) sulfonates (alternately sulphonates) (60–65% solution). | 34 | | | SSU | AKA/AKE. |
| Sodium aluminate solution | 5 | | 11138-49-1 | SAV | SAU. |
| Sodium aluminate solution (45% or less) | 5 | | 11138-49-1 | SAU | SAV. |
| Sodium aluminosilicate slurry | 34 | | 1344-00-9 | SLR. | |
| Sodium benzoate | 34 | | 532-32-1 | SBN | SBM. |
| Sodium bicarbonate solution (less than 10%) | 34 | 3 | 144-55-8 | SBC. | |
| Sodium borohydride (15% or less)/Sodium hydroxide solution | 5 | | | SBX | CSS/SBH/SBI/ SHD. |
| Sodium bromide solution (less than 50%) | 43 | 3 | 7647-15-6 | SBL | SBR. |
| Sodium carbonate solution | 5 | | 497-19-8 | SCE. | |
| Sodium chlorate solution (50% or less) | 0 | 1, 2 | 7775-09 | SDD | SDC. |
| Sodium cyanide solution | 5 | | 143-33-9 | SCO | SCN/SCS. |
| Sodium dichromate solution (70% or less) | 0 | 1, 2 | 7789-12-0 | SDL | SCR. |
| <i>Sodium dimethyl naphthalene sulfonate solution, see Dimethyl naphthalene sulfonic (alternately sulphonic) acid, sodium salt solution.</i> | | | 532-02-5 | | DNS. |
| Sodium hydrogen sulfide (alternately sulphide) (6% or less)/Sodium carbonate (3% or less) solution. | 0 | 1, 2, 3 | | SSS | SCE/SHW. |
| Sodium hydrogen sulfite (alternately sulphite) solution (45% or less) | 43 | | 7631-90-5 | SHY | SHX. |
| Sodium hydrosulfide (alternately hydrosulphide)/Ammonium sulfide (alternately sulphide) solution. | 5 | 2 | | SSA | ASF/ASS. |
| Sodium hydrosulfide (alternately hydrosulphide) solution (45% or less) | 5 | 2 | 16721-80-5 | SHR. | |
| <i>Sodium hypochlorite solution, see Caustic soda solution</i> | | 2 | 1310-73-2 | | CSS (SHD). |
| Sodium hypochlorite solution (15% or less) | 5 | | 7681-52-9 | SHP | SHC/SHQ. |
| Sodium hypochlorite solution (20% or less) | 5 | | 7681-52-9 | SHQ | SHC/SHP. |
| Sodium lignosulfonate (alternately lignosulphonate) solution | 43 | | 8061-51-6 | SLG | LNL. |
| Sodium long-chain alkyl salicylate (C13+) | 34 | | 84539-60-6 | SLS. | |
| <i>Sodium-2-mercaptobenzothiazol solution, see Mercaptobenzothiazol, sodium salt solution.</i> | | | 2492-26-4 | | SMB. |
| Sodium methoxide (25% in methanol) | 0 | 1 | 124-41-4 | SMO. | |
| Sodium methylate 21–30% in methanol | 0 | 1, 2, 3 | 124-41-4 | SMT | SMS. |
| <i>Sodium naphthalene sulfonate (alternately sulphonate) solution, see Naphthalene sulfonic (alternately sulphonic) acid (40% or less), sodium salt solution (40% or less).</i> | | | 532-02-5 | SNS | NSA (NSB). |
| <i>Sodium naphthenate solution, see Naphthenic acid, sodium salt solution</i> | | | 61790-13-4 | | NTS. |
| Sodium nitrite solution | 5 | | 7632-00-0 | SNI | SNT. |
| <i>Sodium N-methyl dithio carbamate solution, see Metam sodium solution</i> | | | 137-42-8 | MSS | SMD. |
| Sodium petroleum sulfonate (alternately sulphonate) | 34 | | 68608-26-4 | SPS. | |
| Sodium poly(4+)acrylate solution | 43 | 2 | 9003-04-7 | SOP | SOO. |
| Sodium polyacrylate solution | 43 | 2 | 9003-04-7 | SOO | SOP. |
| <i>Sodium salt of Ferric hydroxyethylethylenediaminetriacetic acid solution, see Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution.</i> | | | 139-89-9 | STA | FHX. |
| Sodium silicate solution | 43 | 2 | 1344-09-8 | SSN | SSC. |
| Sodium sulfate (alternately sulphate) solution | 34 | 3 | 7757-82-5 | SST | SSO. |
| Sodium sulfide (alternately sulphide) solution (15% or less) | 43 | | 1313-82-2 | SDR | SDS. |
| Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H ₂ S 15 ppm or less). | 0 | 1, 2 | | SSH | SDS/SHR/SSI/ SSJ. |
| Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H ₂ S greater than 15 ppm but less than 200 ppm). | 0 | 1, 2 | | SSI | SDS/SHR/SSH/ SSJ. |
| Sodium sulfide (alternately sulphide)/Hydrosulfide (alternately Hydrosulphide) solution (H ₂ S greater than 200 ppm). | 0 | 1, 2 | | SSJ | SDS/SHR/SSH/ SSI. |
| Sodium sulfite (alternately sulphite) solution (25% or less) | 43 | | 7757-83-7 | SUP | SSF/SUS. |
| Sodium tartrates/Sodium succinates solution | 43 | | | STM. | |
| Sodium thiocyanate solution (56% or less) | 0 | 1, 2 | 540-72-7 | STS | SCY. |
| Sorbitol solution | 20 | | 50-70-4 | SBU | SBT. |
| <i>Soyabean fatty acid methyl ester, see Oil, misc.: Soyabean fatty acid methyl ester.</i> | | | 67784-80-9 | | OST. |
| Soyabean oil (epoxidized) | 34 | | 8013-07-8 | | OSC/EVO. |
| <i>Soyabean oil, see Oil, edible: Soyabean</i> | | 2 | 8001-22-7 | | OSB (VEO). |
| <i>Stearic acid, see Fatty acids (saturated, C13+)</i> | | | 57-11-4 | SRA | FAD (FAB/FAE/ FDI/FDT). |

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

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

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

| Chemical name | Group No. | Footnote | CAS No. | CHRIS code | Related CHRIS codes |
|---|-----------|----------|------------------|------------|----------------------|
| Triethanolamine | 8 | 2 | 102-71-6 | TEA | |
| Triethylamine | 7 | | 121-44-8 | TEN | |
| Triethylbenzene | 32 | | 102-25-0 (1,3,5) | TEB | |
| Triethylene glycol | 40 | | 112-27-6 | TEG | |
| Triethylene glycol butyl ether, see 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 | |
| Triethylene glycol ethyl ether, see Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether. | | | 112-50-5 | TGE | PAG. |
| Triethylene glycol methyl ether, see 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 | |
| Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution, see 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. |
| Trimethyl nonanol, see 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 | |
| Tripropylene, see Propylene trimer | | | 13987-01-4 | | PTR. |
| Tripropylene glycol | 40 | | 24800-44-0 | TGC | |
| Tripropylene glycol methyl ether, see Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether. | | | 25498-49-1 | TGM | PAG. |
| Trisodium nitrilotriacetate solution, see Nitrilotriacetic acid, trisodium salt solution. | | | 5064-31-3 | TSO | NCA (TSN). |
| Trisodium phosphate solution | 5 | | 10101-89-0 | TSP | |
| Trisodium salt of N-(Hydroxyethyl)ethylenediaminetriacetic acid solution, see N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution. | | | 207386-87-6 | | HET. |
| Trixylyl phosphate | 34 | | 25155-23-1 | | TRP. |
| Trixylyl phosphate, see Trixylyl phosphate | | | 25155-23-1 | | TRP. |
| Tung oil, see Oil, misc.: Tung | | | 8001-20-5 | | OTG. |
| Turpentine | 30 | | 9005-90-7 | TPT | |
| Turpentine substitute, see White spirit (low (15-20%) aromatic) | | | 8052-41-13 | | WSL (WSP). |
| Undecane (all isomers), see Alkanes (C10+) (all isomers) | | | 1120-21-4 | UDN | ALV (ALJ). |
| Undecanoic acid | 4 | | 112-37-8 | UDA | |
| Undecanol, see Undecyl alcohol | | | 112-42-5 | | UND (ALR). |
| Undecene | 30 | | 1120-21-4 | UDD | UDC. |
| 1-Undecene | 30 | | 821-95-4 | UND | UDD. |
| Undecyl alcohol | 20 | | 112-42-5 | UDC | ALR. |
| Undecylbenzene, see 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. |
| 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 | | |

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

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

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

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

Notes:

1. Because of very high reactivity, unusual conditions of carriage, or potential compatibility problems, this commodity is not assigned to a specific group in Figure 1 to 46 CFR part 150 (Compatibility Chart).
2. See Appendix I to 46 CFR part 150 (Exceptions to the Chart).
3. Entry was added from the March 2012 Annex to the 2007 edition of the IBC Code (MEPC 63/23/Add.1), the December 2012 IMO Marine Environmental Protection Committee Circular (MEPC.2/Circ.18), or the December 2013 IMO Marine Environmental Protection Committee Circular (MEPC.2/Circ.19).
4. *Italicized* words are not part of the cargo name but may be used in addition to the cargo name.
5. CAS numbers marked with an asterisk (*) represent the CAS number of the lowest member in the homologous series.

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

■ a. Under Group 0, after the entry for “n-Octyl Mercaptan”, add, in alphanumeric order, the entries, “Offshore contaminated bulk liquid P” and “Offshore contaminated bulk liquid S”;

■ b. Under Group 4, after the entry for “Dimethyl octanoic acid”, add, in alphanumeric order, the entries, “Fish protein concentrate (containing 4% or less formic acid)” and “Fish silage protein concentrate (containing 4% or less formic acid)”;

■ c. Under Group 7, remove the entry for “Poly olefin amine”

■ d. Under Group 9, after the entry for “2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline”, add, in alphanumeric order, the entries, “1,3,5-Hexahydrotriethanol-1,3,5-triazine solution” and “Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)”;

■ e. Under Group 20:

■ i. After the entry for “Alcohol (C6-C17) (secondary) poly (3-6) ethoxylates” add an entry for “Alcohol (C10-C18) poly (7) ethoxylates”;

■ ii. After the entry for “Alcohols (C13+)”, add an entry for “Alkyl/cyclo (C4-C5) alcohols”;

■ iii. After the entry for “Dodecyl alcohol (all isomers)”, add an entry for “n-Dodecyl mercaptan”; and

■ iv. After the entry for “Ethylene glycol.1”, add, in alphanumeric order, the entries, “Ethylene glycol (≤75%)/Sodium alkyl carboxylates/borax mixture” and “Ethylene glycol (≤85%)/Sodium alkyl carboxylates mixture”;

■ f. Under Group 21:

■ i. After the entry “Alkylated (C4-C9) hindered phenols”, add an entry for “Alkylphenols (C10-C18, C12 rich)”;

■ ii. After the entry for “Cresols (all isomers)” add an entry for “Cresol/Phenol/Xylenol mixture”; and

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

■ g. Under Group 30, after the entry for “Dodecene (all isomers)”, add an entry for “1-Dodecene”;

■ h. Under Group 31, after the entry for “Heptadecane (all isomers)”, add an entry for “Hydrocarbon wax”;

■ i. Under Group 32:

■ i. After the entry for “Alkyl (C5-C8) benzenes”, add an entry for “Alkylbenzenes mixtures (containing naphthalene)”;

■ ii. After the entry for

“Hexylbenzenes”, add an entry for “Naphthalene crude (molten)”;

■ j. Under Group 34:

■ i. After the entry for “Cod liver oil”, add, in alphanumeric order, the entries, “Cyclohexane-1,2-dicarboxylic acid, diisononyl ester” and “2,6-Diaminohexanoic acid phosphonate mixed salts solution”;

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

■ iii. After the entry for “Phosphate esters”, add an entry for “[[(Phosphonomethyl)imino]bis[ethylene

nitrilobis(methylene)]]

tetrakisphosphonic acid, ammonium salt solution (60% or less)”; and

■ iv. Under the entry for “Vegetable acid oils, n.o.s.”, add, in alphanumeric order, a subentry for “Vegetable oil mixtures, containing less than 15% free fatty acid (m)”;

■ k. Under Group 40:

■ i. After the entry for “Alkyl (C9-C15) phenyl propoxylate”, add an entry for “Alkyl (C10-C15, C12 rich) phenol poly (4-12)ethoxylate”;

■ ii. Remove the entry for “Diethylene glycol n-hexyl ether” and add, in its place, an entry for “Diethylene glycol n-hexyl ether”;

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

■ iv. After the entry for: “Glucitol/Glycerol blend propoxylated (containing less than 10% amines)”, add an entry for “Glucitol/Glycerol blend propoxylated (containing 10% or more amines)”;

■ l. Under Group 41, after the entry for “Alkaryl polyethers (C9-C20)”, add an entry for “tert-Amyl ethyl ether”; and

■ m. Under Group 43:

■ i. After the entry for “Corn syrup”, add an entry for “Cyclohexane oxidation products, sodium salts solution”, and;

■ ii. Remove the entry for “N-Methylglucamine solution (70% or less)”.

The additions read as follows:

TABLE 2 TO PART 150—GROUPING OF CARGOES

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

TABLE 2 TO PART 150—GROUPING OF CARGOES—Continued

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

* * * * *

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

■ a. In the table in paragraph (a):

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- D. Dialkyl (C9-C10) phthalates (34);
- E. Dichloromethane (36);
- F. Ethanolamine (8) (including Monoethanolamine);
- G. Hexene (all isomers) (30);
- H. Methyl Isobutyl Ketone (18);
- I. Olefin mixtures (C5-C15) (30);
- J. Olefins (C13+ all isomers) (30);
- K. Phenol (21);
- L. n-Propyl Alcohol (20);
- M. Propylheptanol (20);
- N. C9-Resinfeed (32);
- O. Sodium Borohydride (15% or less)/ Sodium hydroxide solution (5);
- P. Solvent Naphtha (33);
- Q. Styrene Monomer (30);
- R. Toluene (32); and
- S. Xylenes (Incl. m-Xylene) (32); and
- xiii. In the “Member of reactive group” column, after the entry for “Sulfuric (alternatively Sulphuric) acid, 98% or less(2)”, add the entry for “Sulfuric (alternatively Sulphuric) Acid (95–98%) (2)”, and, in the the “Compatible with” column, add the entries, “Methyl Ester Fatty Acid (34)” and “Soybean Oil (34)”.
- b. Amend paragraph (b) by adding, in alphabetical order, an entry for “Toluene diisocyanate (TDI) (12)”.

The additions read as follows:

Appendix I to Part 150—Exceptions to the Chart

(a) * * *

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

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

(b) * * *
 * * * * *

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

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

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

Dated: August 25, 2022.

W.R. Arguin,

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

[FR Doc. 2022–18798 Filed 9–21–22; 8:45 am]

BILLING CODE 9110–04–P