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Subpart I—Security Plans

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AUTHORITY: 49 U.S.C. 5101–5127, 44701; 49 CFR 1.53.

SOURCE: Amdt. 172–29, 41 FR 15996, Apr. 15, 1976, unless otherwise noted.

Subpart A—General

§ 172.1 Purpose and scope.

This part lists and classifies those materials which the Department has designated as hazardous materials for purposes of transportation and prescribes the requirements for shipping papers, package marking, labeling, and transport vehicle placarding applicable to the shipment and transportation of those hazardous materials.

[Amdt. 172–29, 41 FR 15997, Apr. 15, 1976, as amended by 66 FR 45379, Aug. 28, 2001]

§ 172.3 Applicability.

(a) This part applies to—

(1) Each person who offers a hazardous material for transportation, and

(2) Each carrier by air, highway, rail, or water who transports a hazardous material.

(b) When a person, other than one of those provided for in paragraph (a) of this section, performs a packaging labeling or marking function required by this part, that person shall perform the function in accordance with this part.

[Amdt. 172–29, 41 FR 15996, Apr. 15, 1976, as amended by Amdt. 172–32, 41 FR 38179, Sept. 9, 1976]

Subpart B—Table of Hazardous Materials and Special Provisions

§ 172.101 Purpose and use of hazardous materials table.

(a) The Hazardous Materials Table (Table) in this section designates the materials listed therein as hazardous materials for the purpose of transportation of those materials. For each listed material, the Table identifies the hazard class or specifies that the material is forbidden in transportation, and gives the proper shipping name or directs the user to the preferred proper shipping name. In addition, the Table specifies or references requirements in this subchapter pertaining to labeling, packaging, quantity limits aboard aircraft and stowage of hazardous materials aboard vessels.

(b) *Column 1: Symbols.* Column 1 of the Table contains six symbols (''+'', ''A'', ''D'', ''G'', ''I'' and ''W'') as follows:

(1) The plus (+) sign fixes the proper shipping name, hazard class and packing group for that entry without regard to whether the material meets the definition of that class, packing group or any other hazard class definition. When the plus sign is assigned to a proper shipping name in Column (1) of the § 172.101 Table, it means that the material is known to pose a risk to humans. When a plus sign is assigned to mixtures or solutions containing a material where the hazard to humans is significantly different from that of the pure material or where no hazard to humans is posed, the material may be described using an alternative shipping name that represents the hazards posed by the material. An appropriate alternate proper shipping name and hazard class may be authorized by the Associate Administrator.

(2) The letter ''A'' denotes a material that is subject to the requirements of this subchapter only when offered or intended for transportation by aircraft, unless the material is a hazardous substance or a hazardous waste. A shipping description entry preceded by an ''A'' may be used to describe a material for other modes of transportation provided all applicable requirements for the entry are met.

(3) The letter ''D'' identifies proper shipping names which are appropriate for describing materials for domestic transportation but may be inappropriate for international transportation under the provisions of international regulations (e.g., IMO, ICAO). An alternate proper shipping name may be selected when either domestic or international transportation is involved.

(4) The letter ''G'' identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description. (See § 172.203(k).)

(5) The letter ''I'' identifies proper shipping names which are appropriate for describing materials in international transportation. An alternate proper shipping name may be selected when only domestic transportation is involved.

(6) The letter ''W'' denotes a material that is subject to the requirements of this subchapter only when offered or intended for transportation by vessel, unless the material is a hazardous substance or a hazardous waste. A shipping description entry preceded by a ''W'' may be used to describe a material for other modes of transportation provided all applicable requirements for the entry are met.

(c) *Column 2: Hazardous materials descriptions and proper shipping names.* Column 2 lists the hazardous materials descriptions and proper shipping names of materials designated as hazardous materials. Modification of a proper shipping name may otherwise be required or authorized by this section. Proper shipping names are limited to those shown in Roman type (not italics).

(1) Proper shipping names may be used in the singular or plural and in either capital or lower case letters. Words may be alternatively spelled in the same manner as they appear in the ICAO Technical Instructions or the IMDG Code. For example ''aluminum'' may be spelled ''aluminium'' and ''sulfur'' may be spelled ''sulphur''. However, the word ''inflammable'' may not be used in place of the word ''flammable''.

(2) Punctuation marks and words in italics are not part of the proper shipping name, but may be used in addition to the proper shipping name. The word ''or'' in italics indicates that terms in the sequence may be used as the proper shipping name, as appropriate.

(3) The word ''poison'' or ''poisonous'' may be used interchangeably with the word ''toxic'' when only domestic transportation is involved. The abbreviation ''n.o.i.'' or ''n.o.i.b.n.'' may be used interchangeably with ''n.o.s.''.

(4) Except for hazardous wastes, when qualifying words are used as part of the proper shipping name, their sequence in the package markings and shipping paper description is optional. However, the entry in the Table reflects the preferred sequence.

(5) When one entry references another entry by use of the word ''see'', if both names are in Roman type, either name may be used as the proper shipping name (e.g., Ethyl alcohol, *see* Ethanol).

(6) When a proper shipping name includes a concentration range as part of the shipping description, the actual concentration, if it is within the range stated, may be used in place of the concentration range. For example, an aqueous solution of hydrogen peroxide containing 30 percent peroxide may be described as ''Hydrogen peroxide, aqueous solution *with not less than 20 percent but not more than 40 percent hydrogen peroxide*'' or ''Hydrogen peroxide, aqueous solution *with 30 percent hydrogen peroxide*''.

(7) Use of the prefix ''mono'' is optional in any shipping name, when appropriate. Thus, Iodine monochloride may be used interchangeably with Iodine chloride. In ''Glycerol alpha-monochlorohydrin'' the term ''mono'' is considered a prefix to the term ''chlorohydrin'' and may be deleted.

(8) Use of the word ''liquid'' or ''solid''. The word ''liquid'' or ''solid'' may be added to a proper shipping name when a hazardous material specifically listed by name may, due to differing physical states, be a liquid or solid. When the packaging specified in Column 8 is inappropriate for the physical state of the material, the table provided in paragraph (i)(4) of this section should be used to determine the appropriate packaging section.

(9) *Hazardous wastes.* If the word ''waste'' is not included in the hazardous material description in Column 2 of the Table, the proper shipping name for a hazardous waste (as defined in § 171.8 of this subchapter), shall include the word ''Waste'' preceding the proper shipping name of the material. For example: Waste acetone.

(10) *Mixtures and solutions.* (i) A mixture or solution not identified specifically by name, comprised of a hazardous material identified in the Table by technical name and non-hazardous material, shall be described using the proper shipping name of the hazardous material and the qualifying word ''mixture'' or ''solution'', as appropriate, unless—

(A) Except as provided in § 172.101(i)(4) the packaging specified in Column 8 is inappropriate to the physical state of the material;

(B) The shipping description indicates that the proper shipping name applies only to the pure or technically pure hazardous material;

(C) The hazard class, packing group, or subsidiary hazard of the mixture or solution is different from that specified for the entry;

(D) There is a significant change in the measures to be taken in emergencies;

(E) The material is identified by special provision in Column 7 of the § 172.101 Table as a material poisonous by inhalation; however, it no longer meets the definition of poisonous by inhalation or it falls within a different hazard zone than that specified in the special provision; or

(F) The material can be appropriately described by a shipping name that describes its intended application, such as ''Coating solution'', ''Extracts, flavoring'' or ''Compound, cleaning liquid''.

(ii) If one or more of the conditions specified in paragraph (c)(10)(i) of this section is satisfied, then a proper shipping name shall be selected as prescribed in paragraph (c)(12)(ii) of this section.

(iii) A mixture or solution not identified in the Table specifically by name, comprised of two or more hazardous materials in the same hazard class, shall be described using an appropriate shipping description (e.g., ''Flammable liquid, n.o.s.''). The name that most appropriately describes the material shall be used; e.g., an alcohol not listed by its technical name in the Table shall be described as ''Alcohol, n.o.s.'' rather than ''Flammable liquid, n.o.s.''. Some mixtures may be more appropriately described according to their application, such as ''Coating solution'' or ''Extracts, flavoring liquid'' rather than by an n.o.s. entry. Under the provisions of subparts C and D of this part, the technical names of at least two components most predominately contributing to the hazards of the mixture or solution may be required in association with the proper shipping name.

(11) Except for a material subject to or prohibited by § 173.21, 173.54, 173.56(d), 173.56(e), 173.224(c) or 173.225(b) of this subchapter, a material that is considered to be a hazardous waste or a sample of a material for which the hazard class is uncertain and must be determined by testing may be assigned a tentative proper shipping name, hazard class, identification number and packing group, if applicable, based on the shipper's tentative determination according to:

(i) Defining criteria in this subchapter;

(ii) The hazard precedence prescribed in § 173.2a of this subchapter;

(iii) The shipper's knowledge of the material;

(iv) In addition to paragraphs (c)(11)(i) through (iii) of this section, for a sample of a material other than a waste, the following must be met:

(A) Except when the word ''Sample'' already appears in the proper shipping name, the word ''Sample'' must appear as part of the proper shipping name or in association with the basic description on the shipping paper.

(B) When the proper shipping description for a sample is assigned a ''G'' in Column (1) of the § 172.101 Table, and the primary constituent(s) for which the tentative classification is based are not known, the provisions requiring a technical name for the constituent(s) do not apply; and

(C) A sample must be transported in a combination packaging that conforms to the requirements of this subchapter that are applicable to the tentative packing group assigned, and may not exceed a net mass of 2.5 kg (5.5 pounds) per package.

NOTE TO PARAGRAPH (c)(11): For the transportation of samples of self-reactive materials, organic peroxides, explosives or lighters, *see* §§ 173.224(c)(3), 173.225(c)(2), 173.56(d) or 173.308(b)(2) of this subchapter, respectively.

(12) Except when the proper shipping name in the Table is preceded by a plus (+)—

(i) If it is specifically determined that a material meets the definition of a hazard class, packing group or hazard zone, other than the class, packing group or hazard zone shown in association with the proper shipping name, or does not meet the defining criteria for a subsidiary hazard shown in Column 6 of the Table, the material shall be described by an appropriate proper shipping name listed in association with the correct hazard class, packing group, hazard zone, or subsidiary hazard for the material.

(ii) *Generic or n.o.s. descriptions.* If an appropriate technical name is not shown in the Table, selection of a proper shipping name shall be made from the generic or n.o.s. descriptions corresponding to the specific hazard class, packing group, hazard zone, or subsidiary hazard, if any, for the material. The name that most appropriately describes the material shall be used; e.g., an alcohol not listed by its technical name in the Table shall be described as ''Alcohol, n.o.s.'' rather than ''Flammable liquid, n.o.s.''. Some mixtures may be more appropriately described according to their application, such as ''Coating solution'' or ''Extracts, flavoring, liquid'', rather than by an n.o.s. entry, such as ''Flammable liquid, n.o.s.'' It should be noted, however, that an n.o.s. description as a proper shipping name may not provide sufficient information for shipping papers and package markings. Under the provisions of subparts C and D of this part, the technical name of one or more constituents which makes the product a hazardous material may be required in association with the proper shipping name.

(iii) *Multiple hazard materials.* If a material meets the definition of more than one hazard class, and is not identified in the Table specifically by name (e.g., acetyl chloride), the hazard class of the material shall be determined by using the precedence specified in §173.2a of this subchapter, and an appropriate shipping description (e.g., ''Flammable liquid, corrosive n.o.s.'') shall be selected as described in paragraph (c)(12)(ii) of this section.

(iv) If it is specifically determined that a material is not a forbidden material and does not meet the definition of any hazard class, the material is not a hazardous material.

(13) *Self-reactive materials and organic peroxides.* A generic proper shipping name for a self-reactive material or an organic peroxide, as listed in Column 2 of the Table, must be selected based on the material's technical name and concentration, in accordance with the provisions of §§173.224 or 173.225 of this subchapter, respectively.

(14) A proper shipping name that describes all isomers of a material may be used to identify any isomer of that material if the isomer meets criteria for the same hazard class or division, subsidiary risk(s) and packing group, unless the isomer is specifically identified in the Table.

(15) Unless a hydrate is specifically listed in the Table, a proper shipping name for the equivalent anhydrous substance may be used, if the hydrate meets the same hazard class or division, subsidiary risk(s) and packing group.

(16) Unless it is already included in the proper shipping name in the §172.101 Table, the qualifying words ''liquid'' or ''solid'' may be added in association with the proper shipping name when a hazardous material specifically listed by name in the §172.101 Table may, due to the differing physical states of the various isomers of the material, be either a liquid or a solid (for example ''Dinitrotoluenes, liquid'' and ''Dinitrotoluenes, solid''). Use of the words ''liquid'' or ''solid'' is subject to the limitations specified for the use of the words ''mixture'' or ''solution'' in paragraph (c)(10) of this section. The qualifying word ''molten'' may be added in association with the proper shipping name when a hazardous material, which is a solid in accordance with the definition in §171.8 of this subchapter, is offered for transportation in the molten state (for example, ''Alkylphenols, solid, n.o.s., molten'').

(d) *Column 3: Hazard class or Division.* Column 3 contains a designation of the hazard class or division corresponding to each proper shipping name, or the word ''Forbidden''.

(1) A material for which the entry in this column is ''Forbidden'' may not be offered for transportation or transported. This prohibition does not apply if the material is diluted, stabilized or incorporated in a device and it is classed in accordance with the definitions of hazardous materials contained in part 173 of this subchapter.

(2) When a reevaluation of test data or new data indicates a need to modify the ''Forbidden'' designation or the hazard class or packing group specified for a material specifically identified in the Table, this data should be submitted to the Associate Administrator.

(3) A basic description of each hazard class and the section reference for class definitions appear in §173.2 of this subchapter.

(4) Each reference to a Class 3 material is modified to read ''Combustible liquid'' when that material is reclassified in accordance with §173.150(e) or (f) of this subchapter or has a flash point above 60 °C (140 °F) but below 93 °C (200 °F).

(e) *Column 4: Identification number.* Column 4 lists the identification number assigned to each proper shipping name. Those preceded by the letters ''UN'' are associated with proper shipping names considered appropriate for international transportation as well as domestic transportation. Those preceded by the letters ''NA'' are associated with proper shipping names not recognized for international transportation, except to and from Canada. Identification numbers in the ''NA9000'' series are associated with proper shipping names not appropriately covered by international hazardous materials (dangerous goods) transportation standards, or not appropriately addressed by international transportation standards for emergency response information purposes, except for transportation between the United States and Canada.

(f) *Column 5: Packing group.* Column 5 specifies one or more packing groups assigned to a material corresponding to the proper shipping name and hazard class for that material. Class 2, Class 7, Division 6.2 (other than regulated medical wastes), and ORM-D materials, do not have packing groups. Packing Groups I, II and III indicate the degree of danger presented by the material is either great, medium or minor, respectively. If more than one packing group is indicated for an entry, the packing group for the hazardous material is determined using the criteria for assignment of packing groups specified in subpart D of part 173. When a reevaluation of test data or new data indicates a need to modify the specified packing group(s), the data should be submitted to the Associate Administrator. Each reference in this column to a material which is a hazardous waste or a hazardous substance, and whose proper shipping name is preceded in Column 1 of the Table by the letter ''A'' or ''W'', is modified to read ''III'' on those occasions when the material is offered for transportation or transported by a mode in which its transportation is not otherwise subject to requirements of this subchapter.

(g) *Column 6: Labels.* Column 6 specifies codes which represent the hazard warning labels required for a package filled with a material conforming to the associated hazard class and proper shipping name, unless the package is otherwise excepted from labeling by a provision in subpart E of this part, or part 173 of this subchapter. The first code is indicative of the primary hazard of the material. Additional label codes are indicative of subsidiary hazards. Provisions in §172.402 may require that a label other than that specified in Column 6 be affixed to the package in addition to that specified in Column 6. No label is required for a material classed as a combustible liquid or for a Class 3 material that is reclassed as a combustible liquid. For ''Empty'' label requirements, see §173.428 of this subchapter. The codes contained in Column 6 are defined according to the following table:

LABEL SUBSTITUTION TABLE

Label code	Label name
1	Explosive
1.1[1]	Explosive 1.1[1]
1.2[1]	Explosive 1.2[1]
1.3[1]	Explosive 1.3[1]
1.4[1]	Explosive 1.4[1]
1.5[1]	Explosive 1.5[1]
1.6[1]	Explosive 1.6[1]
2.1	Flammable Gas
2.2	Non-Flammable Gas
2.3	Poison Gas
3	Flammable Liquid

LABEL SUBSTITUTION TABLE—Continued

Label code	Label name
4.1	Flammable Solid
4.2	Spontaneously Combustible
4.3	Dangerous When Wet
5.1	Oxidizer
5.2	Organic Peroxide
6.1 (inhalation hazard, Zone A or B).	Poison Inhalation Hazard
6.1 (other than inhalation hazard, Zone A or B)[2].	Poison
6.2	Infectious substance
7	Radioactive
8	Corrosive
9	Class 9

[1] Refers to the appropriate compatibility group letter.
[2] The packing group for a material is indicated in column 5 of the table.

(h) *Column 7: Special provisions.* Column 7 specifies codes for special provisions applicable to hazardous materials. When Column 7 refers to a special provision for a hazardous material, the meaning and requirements of that special provision are as set forth in § 172.102 of this subpart.

(i) *Column 8: Packaging authorizations.* Columns 8A, 8B and 8C specify the applicable sections for exceptions, non-bulk packaging requirements and bulk packaging requirements, respectively, in part 173 of this subchapter. Columns 8A, 8B and 8C are completed in a manner which indicates that ''§ 173.'' precedes the designated numerical entry. For example, the entry ''202'' in Column 8B associated with the proper shipping name ''Gasoline'' indicates that for this material conformance to non-bulk packaging requirements prescribed in § 173.202 of this subchapter is required. When packaging requirements are specified, they are in addition to the standard requirements for all packagings prescribed in § 173.24 of this subchapter and any other applicable requirements in subparts A and B of part 173 of this subchapter.

(1) Exceptions. Column 8A contains exceptions from some of the requirements of this subchapter. The referenced exceptions are in addition to those specified in subpart A of part 173 and elsewhere in this subchapter. A ''None'' in this column means no packaging exceptions are authorized, except as may be provided by special provisions in Column 7.

(2) Non-bulk packaging. Column 8B references the section in part 173 of this subchapter which prescribes packaging requirements for non-bulk packagings. A ''None'' in this column means non-bulk packagings are not authorized, except as may be provided by special provisions in Column 7. Each reference in this column to a material which is a hazardous waste or a hazardous substance, and whose proper shipping name is preceded in Column 1 of the Table by the letter ''A'' or ''W'', is modified to include ''§ 173.203'' or ''§ 173.213'', as appropriate for liquids and solids, respectively, on those occasions when the material is offered for transportation or transported by a mode in which its transportation is not otherwise subject to the requirements of this subchapter.

(3) *Bulk packaging.* Column (8C) specifies the section in part 173 of this subchapter that prescribes packaging requirements for bulk packagings, subject to the limitations, requirements, and additional authorizations of Columns (7) and (8B). A ''None'' in Column (8C) means bulk packagings are not authorized, except as may be provided by special provisions in Column (7) and in packaging authorizations Column (8B). Additional authorizations and limitations for use of UN portable tanks are set forth in Column 7. For each reference in this column to a material that is a hazardous waste or a hazardous substance, and whose proper shipping name is preceded in Column 1 of the Table by the letter ''A'' or ''W'' and that is offered for transportation or transported by a mode in which its transportation is not otherwise subject to the requirements of this subchapter:

(4) For a hazardous material which is specifically named in the Table and whose packaging sections specify packagings not applicable to the form of the material (e.g., packaging specified is for solid material and the material is being offered for transportation in a liquid form) the following table should be used to determine the appropriate packaging section:

Packaging section reference for solid materials	Corresponding packaging section for liquid materials
§ 173.187	§ 173.181
§ 173.211	§ 173.201
§ 173.212	§ 173.202
§ 173.213	§ 173.203
§ 173.240	§ 173.241

Packaging section reference for solid materials	Corresponding packaging section for liquid materials
§ 173.242	§ 173.243

(5) *Cylinders.* For cylinders, both non-bulk and bulk packaging authorizations are set forth in Column (8B). Notwithstanding a designation of ''None'' in Column (8C), a bulk cylinder may be used when specified through the section reference in Column (8B).

(j) *Column 9: Quantity limitations.* Columns 9A and 9B specify the maximum quantities that may be offered for transportation in one package by passenger-carrying aircraft or passenger-carrying rail car (Column 9A) or by cargo aircraft only (Column 9B), subject to the following:

(1) ''Forbidden'' means the material may not be offered for transportation or transported in the applicable mode of transport.

(2) The quantity limitation is ''net'' except where otherwise specified, such as for ''Consumer commodity'' which specifies ''30 kg gross.''

(3) When articles or devices are specifically listed by name, the net quantity limitation applies to the entire article or device (less packaging and packaging materials) rather than only to its hazardous components.

(4) A package offered or intended for transportation by aircraft and which is filled with a material forbidden on passenger-carrying aircraft but permitted on cargo aircraft only, or which exceeds the maximum net quantity authorized on passenger-carrying aircraft, shall be labelled with the CARGO AIRCRAFT ONLY label specified in § 172.448 of this part.

(5) The total net quantity of hazardous material for an outer non-bulk packaging that contains more than one hazardous material may not exceed the lowest permitted maximum net quantity per package as shown in Column 9A or 9B, as appropriate. If one material is a liquid and one is a solid, the maximum net quantity must be calculated in kilograms. *See* § 173.24a(c)(1)(iv).

(k) *Column 10: Vessel stowage requirements.* Column 10A [Vessel stowage] specifies the authorized stowage locations on board cargo and passenger vessels. Column 10B [Other provisions] specifies codes for stowage requirements for specific hazardous materials. The meaning of each code in Column 10B is set forth in § 176.84 of this subchapter. Section 176.63 of this subchapter sets forth the physical requirements for each of the authorized locations listed in Column 10A. (For bulk transportation by vessel, see 46 CFR parts 30 to 40, 70, 98, 148, 151, 153 and 154.) The authorized stowage locations specified in Column 10A are defined as follows:

(1) Stowage category ''A'' means the material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel.

(2) Stowage category ''B'' means—

(i) The material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and

(ii) ''On deck only'' on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

(3) Stowage category ''C'' means the material must be stowed ''on deck only'' on a cargo vessel and on a passenger vessel.

(4) Stowage category ''D'' means the material must be stowed ''on deck only'' on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.

(5) Stowage category ''E'' means the material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.

(6) Stowage category ''01'' means the material may be stowed ''on deck'' or ''under deck'' on a cargo vessel (up to 12 passengers) and on a passenger vessel.

(7) Stowage category ''02'' means the material may be stowed ''on deck'' or ''under deck'' on a cargo vessel (up to 12 passengers) and ''on deck'' in closed cargo transport units or ''under deck'' in closed cargo transport units on a passenger vessel.

(8) Stowage category ''03'' means the material may be stowed ''on deck'' or ''under deck'' on a cargo vessel (up to 12 passengers) and ''on deck'' in closed cargo transport units on a passenger vessel.

(9) Stowage category ''04'' means the material may be stowed ''on deck'' or ''under deck'' on a cargo vessel (up to 12 passengers) but the material is prohibited on a passenger vessel.

(10) Stowage category ''05'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' on a cargo vessel (up to 12 passengers) and on a passenger vessel.

(11) Stowage category ''06'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' on a cargo vessel (up to 12 passengers) and ''on deck'' in closed cargo transport units or ''under deck'' in closed cargo transport units on a passenger vessel.

(12) Stowage category ''07'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' on a cargo vessel (up to 12 passengers) and ''on deck'' only in closed cargo transport units on a passenger vessel.

(13) Stowage category ''08'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' on a cargo vessel (up to 12 passengers) but the material is prohibited on a passenger vessel.

(14) Stowage category ''09'' means the material may be stowed ''on deck only'' in closed cargo transport units or ''under deck'' in closed cargo transport units on a cargo vessel (up to 12 passengers) and on a passenger vessel.

(15) Stowage category ''10'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' in closed cargo transport units on a cargo vessel (up to 12 passengers) and ''on deck'' only in closed cargo transport units on a passenger vessel.

(16) Stowage category ''11'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' in magazine stowage type ''c'' on a cargo vessel (up to 12 passengers) and ''on deck'' only in closed cargo transport units on a passenger vessel.

(17) Stowage category ''12'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' in magazine stowage type ''c'' on a cargo vessel (up to 12 passengers) but the material is prohibited on a passenger vessel.

(18) Stowage category ''13'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' in magazine stowage type ''A'' on a cargo vessel (up to 12 passengers) and ''on deck'' only in closed cargo transport units on a passenger vessel.

(19) Stowage category ''14'' means the material may be stowed ''on deck'' in closed cargo transport units on a cargo vessel (up to 12 passengers) but the material is prohibited on a passenger vessel.

(20) Stowage category ''15'' means the material may be stowed ''on deck'' in closed cargo transport units or ''under deck'' in closed cargo transport units on a cargo vessel (up to 12 passengers) but the material is prohibited on a passenger vessel.

(l) *Changes to the Table.* (1) Unless specifically stated otherwise in a rule document published in the FEDERAL REGISTER amending the Table—

(i) Such a change does not apply to the shipment of any package filled prior to the effective date of the amendment; and

(ii) Stocks of preprinted shipping papers and package markings may be continued in use, in the manner previously authorized, until depleted or for a one-year period, subsequent to the effective date of the amendment, whichever is less.

(2) Except as otherwise provided in this section, any alteration of a shipping description or associated entry which is listed in the §172.101 Table must receive prior written approval from the Associate Administrator.

(3) The proper shipping name of a hazardous material changed in the May 6, 1997 final rule, in effect on October 1, 1997, only by the addition or omission of the word ''compressed,'' ''inhibited,'' ''liquefied'' or ''solution'' may continue

to be used to comply with package marking requirements, until January 1, 2003.

§ 172.101 HAZARDOUS MATERIALS TABLE

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Accellerene, see p-Nitrosodimethylaniline.	.....			.....		.....	.....	.....	.....	.....		.....
	Accumulators, electric, see Batteries, wet *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Accumulators, pressurized, pneumatic or hydraulic (containing non-flamable gas), see Articles pressurized, pneumatic *or* hydraulic (containing non-flamable gas).	.....			.....		.....	.....	.....	.....	.....		.....
	Acetal	3	UN1088	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	.....
	Acetaldehyde	3	UN1089	I	3	A3, B16, T11, TP2, TP7	None	201	243	Forbidden	30 L	E	.....
A	Acetaldehyde ammonia	9	UN1841	III	9	IB8, IP3, IP7, T1, TP33	155	204	240	200 kg	200 kg	A	34
	Acetaldehyde oxime	3	UN2332	III	3	B1, IB3, T4, TP1	150	203	242	60 L	220 L	A	.....
	Acetic acid, glacial *or* Acetic acid solution, *with more than 80 percent acid, by mass*.	8	UN2789	II	8, 3	A3, A6, A7, A10, B2, IB2, T7, TP2	154	202	243	1 L	30 L	A	.....
	Acetic acid solution, *not less than 50 percent but not more than 80 percent acid, by mass*.	8	UN2790	II	8	A3, A6, A7, A10, B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	.....
	Acetic acid solution, *with more than 10 percent and less than 50 percent acid, by mass*.	8	UN2790	III	8	IB3, T4, TP1	154	203	242	5 L	60 L	A	.....
	Acetic anhydride	8	UN1715	II	8, 3	A3, A6, A7, A10, B2, IB2, T7, TP2	154	202	243	1 L	30 L	A	40
	Acetone	3	UN1090	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Acetone cyanohydrin, stabilized	6.1	UN1541	I	6.1	2, B9, B14, B32, B76, B77, N34, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	25, 40, 52, 53
	Acetone oils	3	UN1091	II	3	IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
	Acetonitrile	3	UN1648	II	3	IB2, T7, TP2	150	202	242	5 L	60 L	B	40
	Acetyl acetone peroxide with more than 9 percent by mass active oxygen.	Forbidden			.....		.....	.....	.....	.....	.....		.....

Acetyl benzoyl peroxide, solid, or with more than 40 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Acetyl bromide	8	UN1716	II	8	B2, IB2, T8, TP2, TP12	154	202	242	1 L	30 L	C	40
Acetyl chloride	3	UN1717	II	3, 8	A3, A6, A7, IB1, N34, T8, TP2, TP12	150	202	243	1 L	5 L	B	40
Acetyl cyclohexanesulfonyl peroxide, with more than 82 percent wetted with less than 12 percent water.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Acetyl iodide	8	UN1898	II	8	B2, IB2, T7, TP2, TP13	154	202	242	1 L	30 L	C	40
Acetyl methyl carbinol	3	UN2621	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Acetyl peroxide, solid, or with more than 25 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Acetylene, dissolved	2.1	UN1001	.....	2.1	N86, N88	None	303	None	Forbidden	15 kg	D	25, 40, 57
Acetylene (liquefied)	Forbidden			.....		.....	.....	.....	.....	.....		.....
Acetylene silver nitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
Acetylene, solvent free	Forbidden		.....	.....	.....	.....	.....	.....	.....	.....		.....
Acetylene tetrabromide, see Tetrabromoethane.	.....			.....		.....	.....	.....	.....	.....		.....
Acid butyl phosphate, see Butyl acid phosphate.	.....			.....		.....	.....	.....	.....	.....		.....
Acid, sludge, *see* Sludge acid	.....			.....		.....	.....	.....	.....	.....		.....
Acridine	6.1	UN2713	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
Acrolein dimer, stabilized	3	UN2607	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	40
Acrolein, stabilized	6.1	UN1092	I	6.1, 3	1, B9, B14, B30, B42, B72, B77, T22, TP2, TP7, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
Acrylamide, solid	6.1	UN2074	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	12
Acrylamide solution	6.1	UN3426	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	12
Acrylic acid, stabilized	8	UN2218	II	8, 3	B2, IB2, T7, TP2	154	202	243	1 L	30 L	C	25, 40
Acrylonitrile, stabilized	3	UN1093	I	3, 6.1	B9, T14, TP2, TP13	None	201	243	Forbidden	30 L	E	40
Actuating cartridge, explosive, see Cartridges, power device.	.....			.....		.....	.....	.....	.....	.....		.....
Adhesives, *containing a flammable liquid.*	3	UN1133	I	3	B42, T11, TP1, TP8, TP27	150	201	243	1 L	30 L	B	
	.....		II	3	149, B52, IB2, T4, TP1, TP8	150	173	242	5 L	60 L	B	
	.....		III	3	B1, B52, IB3, T2, TP1	150	173	242	60 L	220 L	A	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Adiponitrile	6.1	UN2205	III	6.1	IB3, T3, TP1	153	203	241	60 L	220 L	A	
	Aerosols, *corrosive, Packing Group II or III, (each not exceeding 1 L capacity)*.	2.2	UN1950		2.2, 8	A34	306	None	None	75 kg	150 kg	A	48, 87, 126
	Aerosols, *flammable, (each not exceeding 1 L capacity)*.	2.1	UN1950		2.1	N82	306	None	None	75 kg	150 kg	A	48, 87, 126
	Aerosols, flammable, n.o.s. *(engine starting fluid) (each not exceeding 1 L capacity)*.	2.1	UN1950		2.1	N82	306	304	None	Forbidden	150 kg	A	48, 87, 126
	Aerosols, *non-flammable,(each not exceeding 1 L capacity)*.	2.2	UN1950		2.2		306	None	None	75 kg	150 kg	A	48, 87, 126.
	Aerosols, *poison, (each not exceeding 1 L capacity)*.	2.2	UN1950		2.2, 6.1.		306	None	None	Forbidden	Forbidden	A	48, 87, 126
I	Air bag inflators, *or* Air bag modules, *or* Seat-belt pretensioners..	1.4G	UN0503	II	1.4G	161	None	62	None	Forbidden	75 kg	02	
	Air bag inflators, *or* Air bag modules, *or* Seat-belt pretensioners..	9	UN3268	III	9	160	166	166	166	25 kg	100 kg	A	
	Air, compressed	2.2	UN1002		2.2	78	306, 307.	302	302	75 kg	150 kg	A	
	Air, refrigerated liquid, *(cryogenic liquid)*.	2.2	UN1003		2.2, 5.1.	T75, TP5, TP22	320	316	318, 319.	Forbidden	150 kg	D	51
	Air, refrigerated liquid, *(cryogenic liquid) non-pressurized*.	2.2	UN1003		2.2, 5.1.	T75, TP5, TP22	320	316	318, 319.	Forbidden	Forbidden	D	51
	Aircraft engines (including turbines), see Engines, internal combustion.												
	Aircraft evacuation slides, see Life saving appliances *etc*.												
	Aircraft hydraulic power unit fuel tank *(containing a mixture of anhydrous hydrazine and monomethyl hydrazine) (M86 fuel)*.	3	UN3165	I	3, 6.1, 8.		None	172	None	Forbidden	42 L	E	
	Aircraft survival kits, see Life saving appliances *etc*.												

G	Alcoholates solution, n.o.s., *in alcohol*.	3	UN3274	II	3, 8	IB2	150	202	243	1 L	5 L	B	
	Alcoholic beverages	3	UN3065	II	3	24, 149, B1, IB2, T4, TP1	150	202	242	5 L	60 L	A	
				III	3	24, B1, IB3, N11, T2, TP1	150	203	242	60 L	220 L	A	
	Alcohols, n.o.s.	3	UN1987	I	3	172, T11, TP1, TP8, TP27	None	201	243	1 L	30 L	E	
				II	3	172, IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	
				III	3	172, B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A.	
G	Alcohols, flammable, toxic n.o.s	3	UN1986	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	E	40
				II	3, 6.1	IB2, T11, TP2, TP27	150	202	243	1 L	60 L	B	40
				III	3, 6.1	B1, IB3, T7, TP1, TP28	150	203	242	60 L	220 L	A	
	Aldehydes, n.o.s.	3	UN1989	I	3	T11, TP1, TP27	None	201	243	1 L	30 L	E	
				II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	
G	Aldehydes, flammable, toxic, n.o.s..	3	UN1988	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	E	40
				II	3, 6.1	IB2, T11, TP2, TP27	150	202	243	1 L	60 L	B	40
				III	3, 6.1	B1, IB3, T7, TP1, TP28	150	203	242	60 L	220 L	A	
	Aldol	6.1	UN2839	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	12
G	Alkali metal alcoholates, self-heating, corrosive, n.o.s..	4.2	UN3206	II	4.2, 8	64, A7, IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	B	
				III	4.2, 8	64, A7, IB8, IP3, T1, TP33	None	213	242	25 kg	100 kg	B	
	Alkali metal alloys, liquid, n.o.s.	4.3	UN1421	I	4.3	A2, A3, A7, B48, N34	None	201	244	Forbidden	1 L	D	52
	Alkali metal amalgam, liquid	4.3	UN1389	I	4.3	A2, A3, A7, N34	None	201	244	Forbidden	1 L	D	40, 52
	Alkali metal amalgam, solid	4.3	UN3401	I	4.3	IB4, IP1, N40, T9, TP7, TP33	None	211	242	Forbidden	15 kg	D	52
	Alkali metal amides	4.3	UN1390	II	4.3	A6, A7, A8, A19, A20, IB7, IP2, T3, TP33	151	212	241	15 kg	50 kg	E	40, 52
	Alkali metal dispersions, *or* Alkaline earth metal dispersions.	4.3	UN1391	I	4.3	A2, A3, A7	None	201	244	Forbidden	1 L	D	52
	Alkaline corrosive liquids, n.o.s., see Caustic alkali liquids, n.o.s..												
G	Alkaline earth metal alcoholates, n.o.s..	4.2	UN3205	II	4.2	65, A7, IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	B	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	.....	.....		III	4.2	65, A7, IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	B	.....
	Alkaline earth metal alloys, n.o.s..	4.3	UN1393	II	4.3	A19, IB7, IP2, T3, TP33	151	212	241	15 kg	50 kg	E	52
	Alkaline earth metal amalgams, liquid.	4.3	UN1392	I	4.3	A19, N34, N40	None	201	244	Forbidden	1 L	E	40, 52
	Alkaline earth metal amalgams, solid.	4.3	UN3402	I	4.3	A19, N34, N40, T9, TP7, TP33	None	211	242	Forbidden	15 kg	D	52
G	Alkaloids, liquid, n.o.s., *or* Alkaloid salts, liquid, n.o.s..	6.1	UN3140	I	6.1	A4, T14, TP2, TP27	None	201	243	1 L	30 L	A	.....
	.....	.....		II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	A	.....
	.....	.....		III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	.....
G	Alkaloids, solid, n.o.s. *or* Alkaloid salts, solid, n.o.s. *poisonous*.	6.1	UN1544	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Alkyl sulfonic acids, liquid *or* Aryl sulfonic acids, liquid *with more than 5 percent free sulfuric acid*.	8	UN2584	II	8	B2, IB2, T8, TP2, TP12, TP13	154	202	242	1 L	30 L	B	.....
	Alkyl sulfonic acids, liquid *or* Aryl sulfonic acids, liquid *with not more than 5 percent free sulfuric acid*.	8	UN2586	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	B	.....
	Alkyl sulfonic acids, solid *or* Aryl sulfonic acids, solid, *with more than 5 percent free sulfuric acid*.	8	UN2583	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	.....
	Alkyl sulfonic acids, solid *or* Aryl sulfonic acids, solid *with not more than 5 percent free sulfuric acid*.	8	UN2585	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....

Alkylphenols, liquid, n.o.s. *(including C2-C12 homologues)*.	8	UN3145	I	8	A6, T14, TP2	None	201	243	0.5 L	2.5 L	B	
			II	8	IB2, T11, TP2, TP27	154	202	242	1 L	30 L	B	
			III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	
Alkylphenols, solid, n.o.s. *(including C2-C12 homologues)*.	8	UN2430	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	B	
			II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	B	
			III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
Alkylsulfuric acids	8	UN2571	II	8	B2, IB2, T8, TP2, TP12, TP13, TP28	154	202	242	1 L	30 L	C	14
Allethrin, see Pesticides, liquid, toxic, n.o.s..												
Allyl acetate	3	UN2333	II	3, 6.1	IB2, T7, TP1, TP13	150	202	243	1 L	60 L	E	40
Allyl alcohol	6.1	UN1098	I	6.1, 3	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Allyl bromide	3	UN1099	I	3, 6.1	T14, TP2, TP13	None	201	243	Forbidden	30 L	B	40
Allyl chloride	3	UN1100	I	3, 6.1	T14, TP2, TP13	None	201	243	Forbidden	30 L	E	40
Allyl chlorocarbonate, see Allyl chloroformate.												
Allyl chloroformate	6.1	UN1722	I	6.1, 3, 8.	2, B9, B14, B32, B74, N41, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Allyl ethyl ether	3	UN2335	II	3, 6.1	IB2, T7, TP1, TP13	150	202	243	1 L	60 L	E	40
Allyl formate	3	UN2336	I	3, 6.1	T14, TP2, TP13	None	201	243	Forbidden	30 L	E	40
Allyl glycidyl ether	3	UN2219	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Allyl iodide	3	UN1723	II	3, 8	A3, A6, IB1, N34, T7, TP2, TP13	150	202	243	1 L	5 L	B	40
Allyl isothiocyanate, stabilized	6.1	UN1545	II	6.1, 3	A3, A7, IB2, T7, TP2	None	202	243	Forbidden	60 L	D	40
Allylamine	6.1	UN2334	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Allyltrichlorosilane, stabilized	8	UN1724	II	8, 3	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	243	Forbidden	30 L	C	40
Aluminum alkyl halides, liquid	4.2	UN3052	I	4.2, 4.3.	173, B9, B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	134

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Aluminum alkyl halides, solid	4.2	UN3461	I	4.2, 4.3.	173, T21, TP7, TP33	None	181	244	Forbidden	Forbidden	D	134
	Aluminum alkyl hydrides	4.2	UN3076	I	4.2, 4.3.	173, B9, B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	
	Aluminum alkyls	4.2	UN3051	I	4.2, 4.3.	173, B9, B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	
	Aluminum borohydride *or* Aluminum borohydride in devices.	4.2	UN2870	I	4.2, 4.3.	B11, T21, TP7, TP33	None	181	244	Forbidden	Forbidden	D	
	Aluminum bromide, anhydrous	8	UN1725	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	40
	Aluminum bromide, solution	8	UN2580	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Aluminum carbide	4.3	UN1394	II	4.3	A20, IB7, IP2, N41, T3, TP33	151	212	242	15 kg	50 kg	A	52
	Aluminum chloride, anhydrous	8	UN1726	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	40
	Aluminum chloride, solution	8	UN2581	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Aluminum dross, wet or hot	Forbidden											
	Aluminum ferrosilicon powder	4.3	UN1395	II	4.3, 6.1.	A19, IB5, IP2, T3, TP33	151	212	242	15 kg	50 kg	A	39, 40, 52, 53, 85, 103
				III	4.3, 6.1.	A19, A20, IB4	151	213	241	25 kg	100 kg	A	39, 40, 52, 53, 85, 103
	Aluminum hydride	4.3	UN2463	I	4.3	A19, N40	None	211	242	Forbidden	15 kg	E	
D	Aluminum, molten	9	NA9260	III	9	IB3, T1, TP3	None	None	247	Forbidden	Forbidden	D	
	Aluminum nitrate	5.1	UN1438	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Aluminum phosphate solution, see Corrosive liquids, *etc.*												
	Aluminum phosphide	4.3	UN1397	I	4.3, 6.1.	A8, A19, N40	None	211	242	Forbidden	15 kg	E	40, 52, 85
	Aluminum phosphide pesticides	6.1	UN3048	I	6.1	A8, IB7, IP1, T6, TP33	None	211	242	Forbidden	15 kg	E	40, 85
	Aluminum powder, coated	4.1	UN1309	II	4.1	IB8, IP2, IP4, T3, TP33	151	212	240	15 kg	50 kg	A	13, 39, 52, 53, 74, 101
				III	4.1	IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	13, 39, 52, 53, 74, 101

	Aluminum powder, uncoated	4.3	UN1396	II	4.3	A19, A20, IB7, IP2, T3, TP33	151	212	242	15 kg	50 kg	A	39, 52, 53
	.....	.....		III	4.3	A19, A20, IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	A	39, 52, 53
	Aluminum resinate	4.1	UN2715	III	4.1	IB6, T1, TP33	151	213	240	25 kg	100 kg	A	.....
	Aluminum silicon powder, uncoated.	4.3	UN1398	III	4.3	A1, A19, IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	A	39, 40, 52, 53, 85, 103
	Aluminum smelting by-products *or* Aluminum remelting by-products.	4.3	UN3170	II	4.3	128, B115, IB7, IP2, T3, TP33	None	212	242	15 kg	50 kg	B	85, 103
	.....	.....		III	4.3	128, B115, IB8, IP4, T1, TP33	None	213	241	25 kg	100 kg	B	85, 103
	Amatols, see Explosives, blasting, type B.	.....			.....		.....	.....	.....	.....	.....		.....
G	Amines, flammable, corrosive, n.o.s. *or* Polyamines, flammable, corrosive, n.o.s..	3	UN2733	I	3, 8	T14, TP1, TP27	None	201	243	0.5 L	2.5 L	D	40
	.....	.....		II	3, 8	IB2, T11, TP1, TP27	150	202	243	1 L	5 L	B	40
	.....	.....		III	3, 8	B1, IB3, T7, TP1, TP28	150	203	242	5 L	60 L	A	40
G	Amines, flammable, corrosive, n.o.s. *or* Polyamines, flammable, corrosive, n.o.s.	3	UN2733	I	3, 8	T14, TP1, TP27	None	201	243	0.5 L	2.5 L	D	40, 52.
				II	3, 8	IB2, T11, TP1, TP27	150	202	243	1 L	5 L	B	40, 52.
				III	3, 8	B1, IB3, T7, TP1, TP28	150	203	242	5 L	60 L	A	40, 52.
	.....	.....		II	8, 3	IB2, T11, TP2, TP27	None	202	243	1 L	30 L	A	52
G	Amines, liquid, corrosive, n.o.s., *or* Polyamines, liquid, corrosive, n.o.s..	8	UN2735	I	8	A3, A6, B10, N34, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	A	52
	.....	.....		II	8	B2, IB2, T11, TP1, TP27	154	202	242	1 L	30 L	A	52
	.....	.....		III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	52
G	Amines, solid, corrosive, n.o.s., *or* Polyamines, solid, corrosive n.o.s..	8	UN3259	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	A	52
	.....	.....		II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52
	.....	.....		III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	52
	2-Amino-4-chlorophenol	6.1	UN2673	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	2-Amino-5-diethylaminopentane	6.1	UN2946	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	2-Amino-4,6-Dinitrophenol, wetted *with not less than 20 percent water by mass*.	4.1	UN3317	I	4.1	23, A8, A19, A20, N41	None	211	None	1 kg	15 kg	E	28, 36
	2-(2-Aminoethoxy) ethanol	8	UN3055	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	N-Aminoethylpiperazine	8	UN2815	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	12
+	Aminophenols (o-; m-; p-)	6.1	UN2512	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Aminopropyldiethanolamine, see Amines, *etc*.												
	n-Aminopropylmorpholine, see Amines, *etc*.												
	Aminopyridines *(o-; m-; p-)*	6.1	UN2671	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	12, 40, 52.
I	Ammonia, anhydrous	2.3	UN1005		2.3, 8	4, N87, T50	None	304	314, 315.	Forbidden	Forbidden	D	40, 52, 57
D	Ammonia, anhydrous	2.2	UN1005		2.2	13, T50	None	304	314, 315.	Forbidden	Forbidden	D	40, 52, 57
I	Ammonia solution, *relative density less than 0.880 at 15 degrees C in water, with more than 50 percent ammonia*.	2.3	UN3318		2.3, 8	4, N87, T50	None	304	314, 315.	Forbidden	Forbidden	D	40, 52, 57
D	Ammonia solution, *relative density less than 0.880 at 15 degrees C in water, with more than 50 percent ammonia*.	2.2	UN3318		2.2	13, T50	None	304	314, 315.	Forbidden	Forbidden	D	40, 52, 57
	Ammonia solutions, *relative density less than 0.880 at 15 degrees C in water, with more than 35 percent but not more than 50 percent ammonia*.	2.2	UN2073		2.2	N87	306	304	314, 315.	Forbidden	150 kg	E	40, 52, 57
	Ammonia solution, *relative density between 0.880 and 0.957 at 15 degrees C in water, with more than 10 percent but not more than 35 percent ammonia*.	8	UN2672	III	8	IB3, IP8, T7, TP1	154	203	241	5 L	60 L	A	40, 52, 85

	*	*		*		*	*		*		*		
	Ammonium arsenate	6.1	UN1546	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	53
	Ammonium azide	Forbidden											
	Ammonium bifluoride, solid, see Ammonium hydrogen difluoride, solid.												
	Ammonium bifluoride solution, see Ammonium hydrogen difluoride, solution.												
	Ammonium bromate	Forbidden											
	Ammonium chlorate	Forbidden											
	Ammonium dichromate	5.1	UN1439	II	5.1	IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	52
	Ammonium dinitro-o-cresolate, solid.	6.1	UN1843	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	36, 65, 66, 77
	Ammonium dinitro-o-cresolate solution.	6.1	UN3424	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	B	36, 66, 78, 91
				III	6.1	IB2, T7, TP2	153	203	241	60 L	220 L	A	36, 66, 78, 91
	Ammonium fluoride	6.1	UN2505	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
	Ammonium fluorosilicate	6.1	UN2854	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
	Ammonium fulminate	Forbidden											
	Ammonium hydrogen sulfate	8	UN2506	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	40
	Ammonium hydrogendifluoride, solid.	8	UN1727	II	8	IB8, IP2, IP4, N34, T3, TP33	154	212	240	15 kg	50 kg	A	25, 40, 52
	Ammonium hydrogendifluoride, solution.	8	UN2817	II	8, 6.1	IB2, N34, T8, TP2, TP12, TP13	154	202	243	1 L	30 L	B	40
				III	8, 6.1	IB3, N3, T4, TP1, TP12, TP13	154	203	241	5 L	60 L	B	40, 95
	Ammonium hydrosulfide, solution, see Ammonium sulfide solution.												
D	Ammonium hydroxide, *see* Ammonia solutions, *etc*.												
	Ammonium metavanadate	6.1	UN2859	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	44, 89, 100, 141
	Ammonium nitrate based fertilizer.	5.1	UN2067	III	5.1	52, 150, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	B	48, 59, 60, 66, 117
A W	Ammonium nitrate based fertilizer.	9	UN2071	III	9	132, IB8, IP3	155	213	240	200 kg	200 kg	A	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Ammonium nitrate emulsion *or* Ammonium nitrate suspension *or* Ammonium nitrate gel, *intermediate for blasting explosives*.	5.1	UN3375	II	5.1	147, 163	None	214	214	Forbidden	Forbidden	D	48, 59, 60, 66, 124
D	Ammonium nitrate-fuel oil mixture *containing only prilled ammonium nitrate and fuel oil*.	1.5D	NA0331	II	1.5D ..		None	62	None	Forbidden	Forbidden	10	19E
	Ammonium nitrate, liquid *(hot concentrated solution)*.	5.1	UN2426	.....	5.1	B5, T7	None	None	243	Forbidden	Forbidden	D	59, 60
	Ammonium nitrate, *with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance*.	1.1D	UN0222	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	19E
	Ammonium nitrate, *with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance*.	5.1	UN1942	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	48, 59, 60, 116
	Ammonium nitrite	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Ammonium perchlorate	1.1D	UN0402	II	1.1D ..	107	None	62	None	Forbidden	Forbidden	10	19E
	Ammonium perchlorate	5.1	UN1442	II	5.1	107, A9, IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	E	58, 69
	Ammonium permanganate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Ammonium persulfate	5.1	UN1444	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	.....
	Ammonium picrate, *dry or wetted with less than 10 percent water, by mass*.	1.1D	UN0004	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	5E, 19E
	Ammonium picrate, wetted *with not less than 10 percent water, by mass*.	4.1	UN1310	I	4.1	23, A2, N41	None	211	None	0.5 kg	0.5 kg	D	28, 36
	Ammonium polysulfide, solution	8	UN2818	II	8, 6.1	IB2, T7, TP2, TP13	154	202	243	1 L	30 L	B	12, 40, 52

.....	.....		III	8, 6.1	IB3, T4, TP1, TP13	154	203	241	5 L	60 L	B	12, 40, 52
Ammonium polyvanadate	6.1	UN2861	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	44, 89, 100, 141
Ammonium silicofluoride, see Ammonium fluorosilicate.	.....			.....		.....	.....	.....	.....	.....		.....
Ammonium sulfide solution	8	UN2683	II	8, 6.1, 3.	IB1, T7, TP2, TP13	154	202	243	1 L	30 L	B	12, 22, 52, 100
Ammunition, blank, see Cartridges for weapons, blank.	.....			.....		.....	.....	.....	.....	.....		.....
Ammunition, illuminating *with or without burster, expelling charge or propelling charge*.	1.2G	UN0171	II	1.2G ..		.....	62	None	Forbidden	Forbidden	03	.....
Ammunition, illuminating *with or without burster, expelling charge or propelling charge*.	1.3G	UN0254	II	1.3G ..		.....	62	None	Forbidden	Forbidden	03	.....
Ammunition, illuminating *with or without burster, expelling charge or propelling charge*.	1.4G	UN0297	II	1.4G ..		.....	62	None	Forbidden	75 kg	02	.....
Ammunition, incendiary *liquid or gel, with burster, expelling charge or propelling charge*.	1.3J	UN0247	II	1.3J ...		.....	62	None	Forbidden	Forbidden	04	23E
Ammunition, incendiary (water-activated contrivances) with burster, expelling charge or propelling charge, see Contrivances, water-activated, etc..	.....			.....		.....	.....	.....	.....	.....		.....
Ammunition, incendiary, white phosphorus, *with burster, expelling charge or propelling charge*.	1.2H	UN0243	II	1.2H ..		.....	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
Ammunition, incendiary, white phosphorus, *with burster, expelling charge or propelling charge*.	1.3H	UN0244	II	1.3H ..		.....	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
Ammunition, incendiary *with or without burster, expelling charge, or propelling charge*.	1.2G	UN0009	II	1.2G ..		.....	62	None	Forbidden	Forbidden	03	.....
Ammunition, incendiary *with or without burster, expelling charge, or propelling charge*.	1.3G	UN0010	II	1.3G ..		.....	62	None	Forbidden	Forbidden	03	.....
Ammunition, incendiary *with or without burster, expelling charge or propelling charge*.	1.4G	UN0300	II	1.4G ..		.....	62	None	Forbidden	75 kg	02	.....
Ammunition, practice	1.4G	UN0362	II	1.4G ..		.....	62	None	Forbidden	75 kg	02	.....
Ammunition, practice	1.3G	UN0488	II	1.3G ..		.....	62	None	Forbidden	Forbidden	03	.....
Ammunition, proof	1.4G	UN0363	II	1.4G ..		.....	62	None	Forbidden	75 kg	02	.....
Ammunition, rocket, see Warheads, rocket *etc*.	.....			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Ammunition, SA (small arms), see Cartridges for weapons, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Ammunition, smoke (water-activated contrivances), white phosphorus, with burster, expelling charge or propelling charge, see Contrivances, water-activated, etc. (UN 0248).	.....			.....		.....	.....	.....	.....	.....		.....
	Ammunition, smoke (water-activated contrivances), without white phosphorus or phosphides, with burster, expelling charge or propelling charge, see Contrivances, water-activated, etc. (UN 0249).	.....			.....		.....	.....	.....	.....	.....		.....
	Ammunition smoke, white phosphorus *with burster,expelling charge, or propelling charge.*	1.2H	UN0245	II	1.2H ..		.....	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
	Ammunition, smoke, white phosphorus *with burster, expelling charge, or propelling charge.*	1.3H	UN0246	II	1.3H ..		.....	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
	Ammunition, smoke *with or without burster, expelling charge or propelling charge.*	1.2G	UN0015	II	1.2G ..		.....	62	None	Forbidden	Forbidden		8E, 17E, 20E
	Ammunition, smoke *with or without burster, expelling charge or propelling charge.*	1.3G	UN0016	II	1.3G ..		.....	62	None	Forbidden	Forbidden		8E, 17E, 20E
	Ammunition, smoke *with or without burster, expelling charge or propelling charge.*	1.4G	UN0303	II	1.4G ..		.....	62	None	Forbidden	75 kg		7E, 8E, 14E, 15E, 17E

	Ammunition, sporting, see Cartridges for weapons, etc. (UN 0012; UN 0328; UN 0339).	.....			.....		.....	.....	.....	.....	.....		.....
	Ammunition, tear-producing, non-explosive, *without burster or expelling charge, non-fuzed*.	6.1	UN2017	II	6.1, 8		None	212	None	Forbidden	50 kg	E	13, 40
	Ammunition, tear-producing *with burster, expelling charge or propelling charge*.	1.2G	UN0018	II	1.2G, 8, 6.1.		.....	62	None	Forbidden	Forbidden		8E, 17E, 20E
	Ammunition, tear-producing *with burster, expelling charge or propelling charge*.	1.3G	UN0019	II	1.3G, 8, 6.1.		.....	62	None	Forbidden	Forbidden		8E, 17E, 20E
	Ammunition, tear-producing *with burster, expelling charge or propelling charge*.	1.4G	UN0301	II	1.4G, 8, 6.1.		.....	62	None	Forbidden	75 kg		7E, 8E, 14E, 15E, 17E
	Ammunition, toxic, non-explosive, *without burster or expelling charge, non-fuzed*.	6.1	UN2016	II	6.1		None	212	None	Forbidden	100 kg	E	13, 40
	Ammunition, toxic (water-activated contrivances), with burster, expelling charge or propelling charge, see Contrivances, water-activated, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
G	Ammunition, toxic *with burster, expelling charge, or propelling charge*.	1.2K	UN0020	II	1.2K, 6.1.		.....	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
G	Ammunition, toxic *with burster, expelling charge, or propelling charge*.	1.3K	UN0021	II	1.3K, 6.1.		.....	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
	Amyl acetates	3	UN1104	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Amyl acid phosphate	8	UN2819	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	.....
	Amyl butyrates	3	UN2620	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Amyl chlorides	3	UN1107	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Amyl formates	3	UN1109	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Amyl mercaptans	3	UN1111	II	3	A3, A6, IB2, T4, TP1	None	202	242	5 L	60 L	B	95, 102
	n-Amyl methyl ketone	3	UN1110	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Amyl nitrate	3	UN1112	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	40
	Amyl nitrites	3	UN1113	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	40
	Amylamines	3	UN1106	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	.....
	.....	.....		III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	.....
	Amyltrichlorosilane	8	UN1728	II	8	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	Anhydrous ammonia, *see* Ammonia, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Anhydrous hydrofluoric acid, see Hydrogen fluoride, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....
+	Aniline	6.1	UN1547	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40, 52
	Aniline hydrochloride	6.1	UN1548	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Aniline oil, see Aniline	.....			.....		.....	.....	.....	.....	.....		.....
	Anisidines	6.1	UN2431	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	Anisole	3	UN2222	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Anisoyl chloride	8	UN1729	II	8	B2, B4, IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	.....
	Anti-freeze, liquid, see Flammable liquids, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Antimonous chloride, see Antimony trichloride.	.....			.....		.....	.....	.....	.....	.....		.....
	Antimony compounds, inorganic, liquid, n.o.s..	6.1	UN3141	III	6.1	35, IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	.....
	Antimony compounds, inorganic, solid, n.o.s..	6.1	UN1549	III	6.1	35, IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Antimony lactate	6.1	UN1550	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Antimony pentachloride, liquid	8	UN1730	II	8	B2, IB2, T7, TP2	None	202	242	1 L	30 L	C	40
	Antimony pentachloride, solutions.	8	UN1731	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	C	40
	.....	.....		III	8	IB3, T4, TP1	154	203	241	5 L	60 L	C	40
	Antimony pentafluoride	8	UN1732	II	8, 6.1	A3, A6, A7, A10, IB2, N3, N36, T7, TP2	None	202	243	Forbidden	30 L	D	44, 89, 100, 141
	Antimony potassium tartrate	6.1	UN1551	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Antimony powder	6.1	UN2871	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Antimony sulfide and a chlorate, mixtures of.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Antimony sulfide, solid, see Antimony compounds, inorganic, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Antimony trichloride, liquid	8	UN1733	II	8	B2, IB2	154	202	242	1 L	30 L	C	40
	Antimony trichloride, solid	8	UN1733	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	40.

Aqua ammonia, see Ammonia solution, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
Argon, compressed	2.2	UN1006	.....	2.2		306	302	314, 315.	75 kg	150 kg	A	.....
Argon, refrigerated liquid *(cryogenic liquid)*.	2.2	UN1951	.....	2.2	T75, TP5	320	316	318	50 kg	500 kg	B	.....
Arsenic	6.1	UN1558	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
Arsenic acid, liquid	6.1	UN1553	I	6.1	T20, TP2, TP7, TP13	None	201	243	1 L	30 L	B	46
Arsenic acid, solid	6.1	UN1554	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
Arsenic bromide	6.1	UN1555	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	12, 40
Arsenic chloride, see Arsenic trichloride.	.....			.....		.....	.....	.....	.....	.....		.....
Arsenic compounds, liquid, n.o.s. *inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.*.	6.1	UN1556	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40, 137
.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40, 137
.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	B	40, 137
Arsenic compounds, solid, n.o.s. *inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.*.	6.1	UN1557	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	137
.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	137
.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	137
Arsenic pentoxide	6.1	UN1559	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
Arsenic sulfide and a chlorate, mixtures of.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Arsenic trichloride	6.1	UN1560	I	6.1	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	B	40
Arsenic trioxide	6.1	UN1561	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
Arsenic, white, solid, see Arsenic trioxide.	.....			.....		.....	.....	.....	.....	.....		.....
Arsenical dust	6.1	UN1562	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Arsenical pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C.*	3	UN2760	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
				II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Arsenical pesticides, liquid, toxic	6.1	UN2994	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Arsenical pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C.*	6.1	UN2993	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1, 3	B1, IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Arsenical pesticides, solid, toxic	6.1	UN2759	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Arsenious acid, solid, see Arsenic trioxide.												
	Arsenious and mercuric iodide solution, see Arsenic compounds, liquid, n.o.s..												
	Arsine	2.3	UN2188		2.3, 2.1.	1	None	192	245	Forbidden	Forbidden	D	40
	Articles, explosive, extremely insensitive *or* Articles, EEI.	1.6N	UN0486	II	1.6N		None	62	None	Forbidden	Forbidden	07	
G	Articles, explosive, n.o.s	1.4S	UN0349	II	1.4S		None	62	None	25 kg	100 kg	05	
G	Articles, explosive, n.o.s	1.4B	UN0350	II	1.4B		None	62	None	Forbidden	Forbidden	06	
G	Articles, explosive, n.o.s	1.4C	UN0351	II	1.4C		None	62	None	Forbidden	75 kg	06	
G	Articles, explosive, n.o.s	1.4D	UN0352	II	1.4D		None	62	None	Forbidden	75 kg	06	
G	Articles, explosive, n.o.s	1.4G	UN0353	II	1.4G		None	62	None	Forbidden	75 kg	06	

G	Articles, explosive, n.o.s	1.1L	UN0354	II	1.1L		None	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E.
G	Articles, explosive, n.o.s	1.2L	UN0355	II	1.2L		None	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E.
G	Articles, explosive, n.o.s	1.3L	UN0356	II	1.3L		None	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E.
G	Articles, explosive, n.o.s	1.1C	UN0462	II	1.1C		None	62	None	Forbidden	Forbidden	07	
G	Articles, explosive, n.o.s	1.1D	UN0463	II	1.1D		None	62	None	Forbidden	Forbidden	07	
G	Articles, explosive, n.o.s	1.1E	UN0464	II	1.1E		None	62	None	Forbidden	Forbidden	07	
G	Articles, explosive, n.o.s	1.1F	UN0465	II	1.1F		None	62	None	Forbidden	Forbidden	08	
G	Articles, explosive, n.o.s	1.2C	UN0466	II	1.2C		None	62	None	Forbidden	Forbidden	07	
G	Articles, explosive, n.o.s	1.2D	UN0467	II	1.2D		None	62	None	Forbidden	Forbidden	07.	
G	Articles, explosive, n.o.s	1.2E	UN0468	II	1.2E		None	62	None	Forbidden	Forbidden	07	
G	Articles, explosive, n.o.s	1.2F	UN0469	II	1.2F		None	62	None	Forbidden	Forbidden	08	
G	Articles, explosive, n.o.s	1.3C	UN0470	II	1.3C		None	62	None	Forbidden	Forbidden	07	
G	Articles, explosive, n.o.s	1.4E	UN0471	II	1.4E		None	62	None	Forbidden	75 kg	06	
G	Articles, explosive, n.o.s	1.4F	UN0472	II	1.4F		None	62	None	Forbidden	Forbidden	08	
	Articles, pressurized pneumatic *or* hydraulic *containing non-flammable gas*.	2.2	UN3164		2.2		306	302, 304.	None	No limit	No limit	A	
	Articles, pyrophoric	1.2L	UN0380	II	1.2L		None	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
	Articles, pyrotechnic *for technical purposes*.	1.1G	UN0428	II	1.1G		None	62	None	Forbidden	Forbidden	07	
	Articles, pyrotechnic *for technical purposes*.	1.2G	UN0429	II	1.2G		None	62	None	Forbidden	Forbidden	07	
	Articles, pyrotechnic *for technical purposes*.	1.3G	UN0430	II	1.3G		None	62	None	Forbidden	Forbidden	07	
	Articles, pyrotechnic *for technical purposes*.	1.4G	UN0431	II	1.4G		None	62	None	Forbidden	75 kg	06	
	Articles, pyrotechnic *for technical purposes*.	1.4S	UN0432	II	1.4S		None	62	None	25 kg	100 kg	05	
D	Asbestos	9	NA2212	III	9	156, IB8, IP2, IP4	155	216	240	200 kg	200 kg	A	34, 40
	Ascaridole (organic peroxide)	Forbidden											
D	Asphalt, *at or above its flash point*.	3	NA1999	III	3	IB3, T1, TP3	150	203	247	Forbidden	Forbidden	D	
D	Asphalt, cut back, *see* Tars, liquid, *etc*.												

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Automobile, motorcycle, tractor, other self-propelled vehicle, engine, or other mechanical apparatus, see Vehicles *or* Battery *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
A G	Aviation regulated liquid, n.o.s. ..	9	UN3334	.....	9	A35	155	204	.....	No limit	No limit	A	.....
A G	Aviation regulated solid, n.o.s. ...	9	UN3335	.....	9	A35	155	204	.....	No limit	No limit	A	.....
	Azaurolic acid (salt of) (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Azido guanidine picrate (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	5-Azido-1-hydroxy tetrazole	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Azido hydroxy tetrazole (mercury and silver salts).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	3-Azido-1,2-Propylene glycol dinitrate.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Azidodithiocarbonic acid	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Azidoethyl nitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1-Aziridinylphosphine oxide-(tris), see Tris-(1-aziridinyl) phosphine oxide, solution.	.....			.....		.....	.....	.....	.....	.....		.....
	Azodicarbonamide	4.1	UN3242	II	4.1	38, IB8, T3, TP33	151	212	240	Forbidden	Forbidden	D	12, 52, 53, 74
	Azotetrazole (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Barium	4.3	UN1400	II	4.3	A19, IB7, IP2, T3, TP33	151	212	241	15 kg	50 kg	E	52
	Barium alloys, pyrophoric	4.2	UN1854	I	4.2	T21, TP7, TP33	None	181	None	Forbidden	Forbidden	D	.....
	Barium azide, *dry or wetted with less than 50 percent water, by mass.*	1.1A	UN0224	II	1.1A, 6.1.	111, 117	None	62	None	Forbidden	Forbidden	12	.....
	Barium azide, wetted *with not less than 50 percent water, by mass.*	4.1	UN1571	I	4.1, 6.1.	162, A2	None	182	None	Forbidden	0.5 kg	D	28
	Barium bromate	5.1	UN2719	II	5.1, 6.1.	IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Barium chlorate, solid	5.1	UN1445	II	5.1, 6.1.	A9, IB6, IP2, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Barium chlorate, solution	5.1	UN3405	II	5.1, 6.1.	A9, IB2, N34, T4, TP1	152	202	243	1 L	5 L	A	56, 58, 133
	.....	.....		III	5.1, 6.1.	A9, IB2, N34, T4, TP1	152	203	242	2.5 L	30 L	A	56, 58, 133

Barium compounds, n.o.s.	6.1	UN1564	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
			III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
Barium cyanide	6.1	UN1565	I	6.1	IB7, IP1, N74, N75, T6, TP33	None	211	242	5 kg	50 kg	A	40, 52
Barium hypochlorite *with more than 22 percent available chlorine*.	5.1	UN2741	II	5.1, 6.1.	A7, A9, IB8, IP2, IP4, N34, T3, TP33	152	212	None	5 kg	25 kg	B	4, 52, 56, 58, 106
Barium nitrate	5.1	UN1446	II	5.1, 6.1.	IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	
Barium oxide	6.1	UN1884	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
Barium perchlorate, solid	5.1	UN1447	II	5.1, 6.1.	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
Barium perchlorate, solution	5.1	UN3406	II	5.1, 6.1.	IB2, T4, TP1	152	202	243	1 L	5 L	A	56, 58, 133
			III	5.1, 6.1.	IB2, T4, TP1	152	203	242	2.5 L	30 L	A	56, 58, 133
Barium permanganate	5.1	UN1448	II	5.1, 6.1.	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	D	56, 58, 138
Barium peroxide	5.1	UN1449	II	5.1, 6.1.	A9, IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	13, 52, 56, 75
Barium selenate, see Selenates *or* Selenites.												
Barium selenite, see Selenates *or* Selenites.												
Batteries, containing sodium	4.3	UN3292	II	4.3		189	189	189	Forbidden	No limit	A	
Batteries, dry, containing potassium hydroxide solid, *electric, storage*.	8	UN3028	III	8		None	213	None	25 kg gross	230 kg gross	A	52.
Batteries, wet, filled with acid, *electric storage*.	8	UN2794	III	8		159	159	159	30 kg gross	No limit	A	
Batteries, wet, filled with alkali, *electric storage*.	8	UN2795	III	8		159	159	159	30 kg gross	No limit	A	52.
Batteries, wet, non-spillable, *electric storage*.	8	UN2800	III	8		159	159	159	No Limit	No Limit	A	
Batteries, dry, *not subject to the requirements of this subchapter*.					130							
Battery fluid, acid	8	UN2796	II	8	A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12	154	202	242	1 L	30 L	B	
Battery fluid, alkali	8	UN2797	II	8	B2, IB2, N6, T7, TP2, TP28	154	202	242	1 L	30 L	A	29
Battery lithium type, see Lithium batteries *etc*.												
Battery-powered vehicle *or* Battery-powered equipment.	9	UN3171		9	134	220	220	None	No limit	No limit		
Battery, wet, filled with acid or alkali with vehicle or mechanical equipment containing an internal combustion engine, see Vehicle, etc. or Engines, internal combustion, *etc*.												

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	(8) Packaging (§ 173.***) Non-bulk	(8) Packaging (§ 173.***) Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	(9) Quantity limitations (see §§ 173.27 and 175.75) Cargo aircraft only	(10) Vessel stowage Location	(10) Vessel stowage Other
	Battery, wet, filled with acid or alkali with vehicle or mechanical equipment containing an internal combustion engine, see Vehicle, etc. or Engines, internal combustion, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
+	Benzaldehyde	9	UN1990	III	9	IB3, T2, TP1	155	203	241	100 L	220 L	A	.....
	Benzene	3	UN1114	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
	Benzene diazonium chloride (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Benzene diazonium nitrate (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Benzene phosphorus dichloride, see Phenyl phosphorus dichloride.	.....			.....		.....	.....	.....	.....	.....		.....
	Benzene phosphorus thiodichloride, see Phenyl phosphorus thiodichloride.	.....			.....		.....	.....	.....	.....	.....		.....
	Benzene sulfonyl chloride	8	UN2225	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	40
	Benzene triozonide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Benzenethiol, see Phenyl mercaptan.	.....			.....		.....	.....	.....	.....	.....		.....
	Benzidine	6.1	UN1885	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Benzol, see Benzene	.....			.....		.....	.....	.....	.....	.....		.....
	Benzonitrile	6.1	UN2224	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40, 52
	Benzoquinone	6.1	UN2587	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Benzotrichloride	8	UN2226	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	40
	Benzotrifluoride	3	UN2338	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
	Benzoxidiazoles (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Benzoyl azide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Benzoyl chloride	8	UN1736	II	8	B2, IB2, T8, TP2, TP12, TP13	154	202	242	1 L	30 L	C	40
	Benzyl bromide	6.1	UN1737	II	6.1, 8	A3, A7, IB2, N33, N34, T8, TP2, TP12, TP13	None	202	243	1 L	30 L	D	13, 40.
	Benzyl chloride	6.1	UN1738	II	6.1, 8	A3, A7, B70, IB2, N33, N42, T8, TP2, TP12, TP13	None	202	243	1 L	30 L	D	13, 40.

Benzyl chloride *unstabilized*	6.1	UN1738	II	6.1, 8	A3, A7, B8, B11, IB2, N33, N34, N43, T8, TP2, TP12, TP13	153	202	243	1 L	30 L	D	13, 40
Benzyl chloroformate	8	UN1739	I	8	A3, A6, B4, N41, T10, TP2, TP12, TP13	None	201	243	Forbidden	2.5 L	D	40
Benzyl iodide	6.1	UN2653	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	B	12, 40
Benzyldimethylamine	8	UN2619	II	8, 3	B2, IB2, T7, TP2	154	202	243	1 L	30 L	A	40, 48
Benzylidene chloride	6.1	UN1886	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	D	40
Beryllium compounds, n.o.s.	6.1	UN1566	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
Beryllium nitrate	5.1	UN2464	II	5.1, 6.1.	IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	.....
Beryllium, powder	6.1	UN1567	II	6.1, 4.1.	IB8, IP2, IP4, T3, TP33	153	212	242	15 kg	50 kg	A	.....
Bicyclo [2,2,1] hepta-2,5-diene, stabilized *or* 2,5-Norbornadiene, stabilized.	3	UN2251	II	3	IB2, T7, TP2	150	202	242	5 L	60 L	D	.....
Biological substance, Category B.	6.2	UN3373	.....	.....	A82	134	199	None	4 L or 4 kg	4 L or 4 kg	A	40
Biphenyl triozonide	Forbidden			.....		.....	.....	.....	.....	.....		.....
Bipyridilium pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C*.	3	UN2782	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	E	.....
.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
Bipyridilium pesticides, liquid, toxic.	6.1	UN3016	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
Bipyridilium pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN3015	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	21, 40
.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	21, 40
.....	.....		III	6.1, 3	B1, IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	21, 40
Bipyridilium pesticides, solid, toxic.	6.1	UN2781	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
Bis (Aminopropyl) piperazine, see Corrosive liquid, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Bisulfate, aqueous solution	8	UN2837	II	8	A7, B2, IB2, N34, T7, TP2	154	202	242	1 L	30 L	A	
				III	8	A7, IB3, N34, T4, TP1	154	203	241	5 L	60 L	A	
	Bisulfites, aqueous solutions, n.o.s..	8	UN2693	III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	40, 52
	Black powder, compressed *or* Gunpowder, compressed *or* Black powder, in pellets *or* Gunpowder, in pellets.	1.1D	UN0028	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Black powder *or* Gunpowder, *granular or as a meal*.	1.1D	UN0027	II	1.1D		None	62	None	Forbidden	Forbidden	10	
D	Black powder for small arms	4.1	NA0027	I	4.1	70	None	170	None	Forbidden	Forbidden	E	
	Blasting agent, n.o.s., see Explosives, blasting *etc*.												
	Blasting cap assemblies, see Detonator assemblies, non-electric, *for blasting*.												
	Blasting caps, electric, see Detonators, electric *for blasting*.												
	Blasting caps, non-electric, see Detonators, non-electric, *for blasting*.												
	Bleaching powder, see Calcium hypochlorite mixtures, *etc*.												
I	Blue asbestos *(Crocidolite) or* Brown asbestos *(amosite, mysorite)*.	9	UN2212	II	9	156, IB8, IP2, IP4, T3, TP33	155	216	240	Forbidden	Forbidden	A	34, 40
	Bombs, photo-flash	1.1F	UN0037	II	1.1F			62	None	Forbidden	Forbidden	08	
	Bombs, photo-flash	1.1D	UN0038	II	1.1D			62	None	Forbidden	Forbidden	03	
	Bombs, photo-flash	1.2G	UN0039	II	1.2G			62	None	Forbidden	Forbidden	03	
	Bombs, photo-flash	1.3G	UN0299	II	1.3G			62	None	Forbidden	Forbidden	03	
	Bombs, smoke, non-explosive, *with corrosive liquid, without initiating device*.	8	UN2028	II	8		None	160	None	Forbidden	50 kg	E	40
	Bombs, *with bursting charge*	1.1F	UN0033	II	1.1F			62	None	Forbidden	Forbidden	08	
	Bombs, *with bursting charge*	1.1D	UN0034	II	1.1D			62	None	Forbidden	Forbidden	03	
	Bombs, *with bursting charge*	1.2D	UN0035	II	1.2D			62	None	Forbidden	Forbidden	03	
	Bombs, *with bursting charge*	1.2F	UN0291	II	1.2F			62	None	Forbidden	Forbidden	08	
	Bombs with flammable liquid, *with bursting charge*.	1.1J	UN0399	II	1.1J			62	None	Forbidden	Forbidden	04	23E

	Bombs with flammable liquid, *with bursting charge*.	1.2J	UN0400	II	1.2J ...		.....	62	None	Forbidden	Forbidden	04	23E
	Boosters with detonator	1.1B	UN0225	II	1.1B ...		None	62	None	Forbidden	Forbidden	11	.....
	Boosters with detonator	1.2B	UN0268	II	1.2B ...		None	62	None	Forbidden	Forbidden	07	.....
	Boosters, *without detonator*	1.1D	UN0042	II	1.1D ..		None	62	None	Forbidden	Forbidden	07	.....
	Boosters, *without detonator*	1.2D	UN0283	II	1.2D ..		None	62	None	Forbidden	Forbidden	07	.....
	Borate and chlorate mixtures, see Chlorate and borate mixtures.	.....			.....		.....	.....	.....	.....	.....		.....
	Borneol	4.1	UN1312	III	4.1	A1, IB8, IP3, T1, TP33	None	213	240	25 kg	100 kg	A	.....
+	Boron tribromide	8	UN2692	I	8, 6.1	2, B9, B14, B32, B74, N34, T20, TP2, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	C	12
	Boron trichloride	2.3	UN1741	.....	2.3, 8	3, B9, B14	None	304	314	Forbidden	Forbidden	D	25, 40
	Boron trifluoride	2.3	UN1008	.....	2.3	2, B9, B14	None	302	314, 315.	Forbidden	Forbidden	D	40
	Boron trifluoride acetic acid complex, liquid.	8	UN1742	II	8	B2, B6, IB2, T8, TP2, TP12	154	202	242	1 L	30 L	A	.....
	Boron trifluoride acetic acid complex, solid.	8	UN3419	II	8	B2, B6, IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	.....
	Boron trifluoride diethyl etherate	8	UN2604	I	8, 3	A3, A19, T10, TP2	None	201	243	0.5 L	2.5 L	D	40
	Boron trifluoride dihydrate	8	UN2851	II	8	IB2, T7, TP2	154	212	240	15 kg	50 kg	B	12, 40,
	Boron trifluoride dimethyl etherate.	4.3	UN2965	I	4.3, 8, 3.	A19, T10, TP2, TP7	None	201	243	Forbidden	1 L	D	21, 28, 40, 49, 100
	Boron trifluoride propionic acid complex, liquid.	8	UN1743	II	8	B2, IB2, T8, TP2, TP12	154	202	242	1 L	30 L	A	.....
	Boron trifluoride propionic acid complex, solid.	8	UN3420	II	8	B2, IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	.....
	Box toe gum, see Nitrocellulose *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Bromates, inorganic, aqueous solution, n.o.s..	5.1	UN3213	II	5.1	IB2, T4, TP1	152	202	242	1 L	5 L	B	56, 58, 133
	.....	.....		III	5.1	IB2, T4, TP1	152	203	241	2.5 L	30 L	B	56, 58, 133
	Bromates, inorganic, n.o.s.	5.1	UN1450	II	5.1	IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
+	Bromine	8	UN1744	I	8, 6.1	1, B9, B64, B85, N34, N43, T22, TP2, TP10, TP12, TP13	None	226	249	Forbidden	Forbidden	D	12, 40, 66, 74, 89, 90
	Bromine azide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Bromine chloride	2.3	UN2901	.....	2.3, 8, 5.1.	2, B9, B14, N86	None	304	314, 315.	Forbidden	Forbidden	D	40, 89, 90

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
+	Bromine pentafluoride	5.1	UN1745	I	5.1, 6.1, 8.	1, B9, B14, B30, B72, T22, TP2, TP12, TP13, TP38, TP44	None	228	244	Forbidden	Forbidden	D	25, 40, 66, 90
+	Bromine solutions	8	UN1744	I	8, 6.1	1, B9, B64, B85, N34, N43, T22, TP2, TP10, TP12, TP13	None	226	249	Forbidden	Forbidden	D	12, 40, 66, 74, 89, 90
+	Bromine solutions	8	UN1744	I	8, 6.1	2, B9, B64, B85, N34, N43, T22, TP2, TP10, TP12, TP13	None	227	249	Forbidden	Forbidden	D	12, 40, 66, 74, 89, 90
+	Bromine trifluoride	5.1	UN1746	I	5.1, 6.1, 8.	2, B9, B14, B32, B74, T22, TP2, TP12, TP13, TP38, TP45	None	228	244	Forbidden	Forbidden	D	25, 40, 66, 90
	4-Bromo-1,2-dinitrobenzene	Forbidden											
	4-Bromo-1,2-dinitrobenzene (unstable at 59 degrees C).	Forbidden											
	1-Bromo-3-chloropropane	6.1	UN2688	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	1-Bromo-3-methylbutane	3	UN2341	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	1-Bromo-3-nitrobenzene (unstable at 56 degrees C).	Forbidden											
	2-Bromo-2-nitropropane-1,3-diol	4.1	UN3241	III	4.1	46, IB8, IP3	151	213	None	25 kg	50 kg	C	12, 25, 40
	Bromoacetic acid, solid	8	UN3425	II	8	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	240	15 kg	50 kg	A	
	Bromoacetic acid solution	8	UN1938	II	8	A7, B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	40
				III	8	B2, IB3, T7, TP2	154	203	241	5 L	60 L	A	40
+	Bromoacetone	6.1	UN1569	II	6.1, 3	2, T20, TP2, TP13	None	193	245	Forbidden	Forbidden	D	40
	Bromoacetyl bromide	8	UN2513	II	8	B2, IB2, T8, TP2, TP12	154	202	242	1 L	30 L	C	40, 53
	Bromobenzene	3	UN2514	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Bromobenzyl cyanides, liquid	6.1	UN1694	I	6.1	T14, TP2, TP13	None	201	243	Forbidden	30 L	D	12, 40, 52
	Bromobenzyl cyanides, solid	6.1	UN3449	I	6.1	T6, TP33	None	211	242	5 kg	50 kg	D	12, 40, 52
	1-Bromobutane	3	UN1126	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
	2-Bromobutane	3	UN2339	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	40

	Bromochloromethane	6.1	UN1887	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A		
	2-Bromoethyl ethyl ether	3	UN2340	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40	
	Bromoform	6.1	UN2515	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	12, 40	
	Bromomethylpropanes	3	UN2342	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B		
	2-Bromopentane	3	UN2343	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B		
	Bromopropanes	3	UN2344	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40	
				III	3	IB3, T2, TP1	150	203	242	60 L	220 L	A		
	3-Bromopropyne	3	UN2345	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	D	40	
	Bromosilane	Forbidden												
	Bromotoluene-alpha, see Benzyl bromide.													
	Bromotrifluoroethylene	2.1	UN2419		2.1		None	304	314, 315.	Forbidden	150 kg	B	40	
	Bromotrifluoromethane *or* Refrigerant gas, R 13B1..	2.2	UN1009		2.2	T50	306	304	314, 315.	75 kg	150 kg	A		
	Brucine	6.1	UN1570	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A		
	Bursters, *explosive*	1.1D	UN0043	II	1.1D		None	62	None	Forbidden	Forbidden	07		
	Butadienes, stabilized *or* Butadienes and Hydrocarbon mixture, stabilized *containing more than 40% butadienes*.	2.1	UN1010		2.1	T50	306	304	314, 315.	Forbidden	150 kg	B	40	
	Butane *see also* Petroleum gases, liquefied.	2.1	UN1011		2.1	19, T50	306	304	314, 315.	Forbidden	150 kg	E	40	
	Butane, butane mixtures and mixtures having similar properties in cartridges each not exceeding 500 grams, see Receptacles, *etc*.													
	Butanedione	3	UN2346	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B		
	1,2,4-Butanetriol trinitrate	Forbidden												
	Butanols	3	UN1120	II	3	IB2, T4, TP1, TP29	150	202	242	5 L	60 L	B		
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A		
	tert-Butoxycarbonyl azide	Forbidden												
	Butyl acetates	3	UN1123	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B		
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A		
	Butyl acid phosphate	8	UN1718	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A		
	Butyl acrylates, stabilized	3	UN2348	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A		
	Butyl alcohols, see Butanols													
	Butyl benzenes	3	UN2709	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A		
	n-Butyl bromide, see 1-Bromobutane.													
	n-Butyl chloride, see Chlorobutanes.													
D	sec-Butyl chloroformate	6.1	NA2742	I	6.1, 3, 8.	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	A	12, 13, 22, 25, 40, 48, 100	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	n-Butyl chloroformate	6.1	UN2743	I	6.1, 8, 3.	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	A	12, 13, 21, 25, 40, 100
	Butyl ethers, see Dibutyl ethers												
	Butyl ethyl ether, see Ethyl butyl ether.												
	n-Butyl formate	3	UN1128	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	tert-Butyl hydroperoxide, with more than 90 percent with water.	Forbidden											
	tert-Butyl hypochlorite	4.2	UN3255	I	4.2, 8		None	211	243	Forbidden	Forbidden	D	
	N-n-Butyl imidazole	6.1	UN2690	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	tert-Butyl isocyanate	6.1	UN2484	I	6.1, 3	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
	n-Butyl isocyanate	6.1	UN2485	I	6.1, 3	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Butyl mercaptans	3	UN2347	II	3	A3, A6, IB2, T4, TP1	150	202	242	5 L	60 L	D	52, 95
	n-Butyl methacrylate, stabilized	3	UN2227	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Butyl methyl ether	3	UN2350	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Butyl nitrites	3	UN2351	I	3	T11, TP1, TP8, TP27	150	201	243	1 L	30 L	E	40
				II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	40
	tert-Butyl peroxyacetate, with more than 76 percent in solution.	Forbidden											
	n-Butyl peroxydicarbonate, with more than 52 percent in solution.	Forbidden											
	tert-Butyl peroxyisobutyrate, with more than 77 percent in solution.	Forbidden											
	Butyl phosphoric acid, see Butyl acid phosphate.												
	Butyl propionates	3	UN1914	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	

5-tert-Butyl-2,4,6-trinitro-m-xylene *or* Musk xylene.	4.1	UN2956	III	4.1	159	None	223	None	Forbidden	Forbidden	D	12, 25, 48, 127
Butyl vinyl ether, stabilized	3	UN2352	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
n-Butylamine	3	UN1125	II	3, 8	IB2, T7, TP1	150	202	242	1 L	5 L	B	40
N-Butylaniline	6.1	UN2738	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	74
tert-Butylcyclohexylchloroformate.	6.1	UN2747	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	12, 13, 25
Butylene *see also* Petroleum gases, liquefied.	2.1	UN1012		2.1	19, T50	306	304	314, 315.	Forbidden	150 kg	E	40
1,2-Butylene oxide, stabilized	3	UN3022	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	27, 49
Butyltoluenes	6.1	UN2667	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
Butyltrichlorosilane	8	UN1747	II	8, 3	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	243	Forbidden	30 L	C	40
1,4-Butynediol	6.1	UN2716	III	6.1	A1, IB8, IP3, T1, TP33	None	213	240	100 kg	200 kg	A	52, 53, 70, 139, 140
Butyraldehyde	3	UN1129	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
Butyraldoxime	3	UN2840	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Butyric acid	8	UN2820	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	12
Butyric anhydride	8	UN2739	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
Butyronitrile	3	UN2411	II	3, 6.1	IB2, T7, TP1, TP13	150	202	243	1 L	60 L	E	40
Butyryl chloride	3	UN2353	II	3, 8	IB2, T8, TP2, TP12, TP13	150	202	243	1 L	5 L	C	40
Cacodylic acid	6.1	UN1572	II	6.1	IB8, IP2, IP4,T3, TP33	153	212	242	25 kg	100 kg	E	52
Cadmium compounds	6.1	UN2570	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	
			II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
			III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
Caesium hydroxide	8	UN2682	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	29, 52.
Caesium hydroxide solution	8	UN2681	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	29, 52
			III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	29, 52
Calcium arsenate	6.1	UN1573	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
Calcium arsenate and calcium arsenite, mixtures, solid.	6.1	UN1574	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
Calcium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s..												
Calcium carbide	4.3	UN1402	I	4.3	A1, A8, B55, B59, IB4, IP1, N34, T9, TP7, TP33	None	211	242	Forbidden	15 kg	B	52

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	.....	.....		II	4.3	A1, A8, B55, B59, IB7, IP2, N34, T3, TP33	151	212	241	15 kg	50 kg	B	52
	Calcium chlorate	5.1	UN1452	II	5.1	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Calcium chlorate aqueous solution.	5.1	UN2429	II	5.1	A2, IB2, N41, T4, TP1	152	202	242	1 L	5 L	B	56, 58, 133
	.....	.....		III	5.1	A2, IB2, N41, T4, TP1	152	203	241	2.5 L	30 L	B	56, 68, 133
	Calcium chlorite	5.1	UN1453	II	5.1	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Calcium cyanamide *with more than 0.1 percent of calcium carbide*.	4.3	UN1403	III	4.3	A1, A19, IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	A	52
	Calcium cyanide	6.1	UN1575	I	6.1	IB7, IP1, N79, N80, T6, TP33	None	211	242	5 kg	50 kg	A	40, 52
	Calcium dithionite *or* Calcium hydrosulfite.	4.2	UN1923	II	4.2	A19, A20, IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	E	13
	Calcium hydride	4.3	UN1404	I	4.3	A19, N40	None	211	242	Forbidden	15 kg	E	52
	Calcium hydrosulfite, *see* Calcium dithionite.	.....			.....		.....	.....	.....	.....	.....		.....
	Calcium hypochlorite, dry *or* Calcium hypochlorite mixtures dry *with more than 39 percent available chlorine (8.8 percent available oxygen)*.	5.1	UN1748	II	5.1	165, 166, A7, A9, IB8, IP2, IP4, IP13, N34, W9	152	212	None	5 kg	25 kg	D	4, 25, 48, 52, 56, 58, 69, 142
	.....	.....		III	5.1	165, 171, A7, A9, IB8, IP4, IP13, N34, W9	152	213	240	25 kg	100 kg	D	4, 25, 48, 52, 56, 58, 69, 142
	Calcium hypochlorite, hydrated *or* Calcium hypochlorite, hydrated mixtures, *with not less than 5.5 percent but not more than 16 percent water*.	5.1	UN2880	II	5.1	165, IB8, IP2, IP4, IP13, W9	152	212	240	5 kg	25 kg	D	4, 25, 48, 52, 56, 58, 69, 142.
	Calcium hypochlorite mixtures, dry, *with more than 10 percent but not more than 39 percent available chlorine*.	5.1	UN2208	III	5.1	165, A1, A29, IB8, IP3, IP13, N34, W9	152	213	240	25 kg	100 kg	D	4, 25, 48, 52, 56, 58, 69, 142

	Calcium manganese silicon	4.3	UN2844	III	4.3	A1, A19, IB8, IP2, IP4, T1, TP33	151	213	241	25 kg	100 kg	A	52, 85, 103
	Calcium nitrate	5.1	UN1454	III	5.1	34, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
A	Calcium oxide	8	UN1910	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
	Calcium perchlorate	5.1	UN1455	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Calcium permanganate	5.1	UN1456	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	D	56, 58, 138
	Calcium peroxide	5.1	UN1457	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	13, 52, 56, 75
	Calcium phosphide	4.3	UN1360	I	4.3, 6.1.	A8, A19, N40	None	211	242	Forbidden	15 kg	E	40, 52, 85
	Calcium, pyrophoric *or* Calcium alloys, pyrophoric.	4.2	UN1855	I	4.2		None	187	None	Forbidden	Forbidden	D	
	Calcium resinate	4.1	UN1313	III	4.1	A1, A19, IB6, T1, TP33	None	213	240	25 kg	100 kg	A	
	Calcium resinate, fused	4.1	UN1314	III	4.1	A1, A19, IB4, T1, TP33	None	213	240	25 kg	100 kg	A	
	Calcium selenate, see Selenates *or* Selenites.												
	Calcium silicide	4.3	UN1405	II	4.3	A19, IB7, IP2, T3, TP33	151	212	241	15 kg	50 kg	B	52, 85, 103
				III	4.3	A1, A19, IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	B	52, 85, 103
	Camphor oil	3	UN1130	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Camphor, *synthetic*	4.1	UN2717	III	4.1	A1, IB8, IP3, T1, TP33	None	213	240	25 kg	100 kg	A	
	Cannon primers, see Primers, tubular.												
	Caproic acid	8	UN2829	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Caps, blasting, see Detonators, *etc*.												
	Carbamate pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C*.	3	UN2758	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
				II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Carbamate pesticides, liquid, toxic.	6.1	UN2992	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Carbamate pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN2991	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	B1, IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Carbamate pesticides, solid, toxic.	6.1	UN2757	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Carbolic acid, see Phenol, solid *or* Phenol, molten.	.....			.....		.....	.....	.....	.....	.....		.....
	Carbolic acid solutions, see Phenol solutions.	.....			.....		.....	.....	.....	.....	.....		.....
I	Carbon, activated	4.2	UN1362	III	4.2	IB8, IP3, T1, TP33	None	213	241	0.5 kg	0.5 kg	A	12
I	Carbon, *animal or vegetable origin*.	4.2	UN1361	II	4.2	IB6, T3, TP33	None	212	242	Forbidden	Forbidden	A	12
	.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	Forbidden	Forbidden	A	12
	Carbon bisulfide, see Carbon disulfide.	.....			.....		.....	.....	.....	.....	.....		.....
	Carbon dioxide	2.2	UN1013	.....	2.2		306	302, 304.	302, 314, 315.	75 kg	150 kg	A	.....
	Carbon dioxide, refrigerated liquid.	2.2	UN2187	.....	2.2	T75, TP5	306	304	314, 315.	50 kg	500 kg	B	.....
A W	Carbon dioxide, solid *or* Dry ice	9	UN1845	III	None		217	217	240	200 kg	200 kg	C	40
	Carbon disulfide	3	UN1131	I	3, 6.1	B16, T14, TP2, TP7, TP13	None	201	243	Forbidden	Forbidden	D	18, 40, 115
	Carbon monoxide, compressed	2.3	UN1016	.....	2.3, 2.1.	4	None	302	314, 315.	Forbidden	25 kg	D	40
D	Carbon monoxide, refrigerated liquid *(cryogenic liquid)*.	2.3	NA9202	.....	2.3, 2.1.	4, T75, TP5	None	316	318	Forbidden	Forbidden	D	.....
	Carbon tetrabromide	6.1	UN2516	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	25
	Carbon tetrachloride	6.1	UN1846	II	6.1	IB2, N36, T7, TP2	153	202	243	5 L	60 L	A	40
	Carbonyl chloride, see Phosgene.	.....			.....		.....	.....	.....	.....	.....		.....
	Carbonyl fluoride	2.3	UN2417	.....	2.3, 8	2	None	302	None	Forbidden	Forbidden	D	40

Carbonyl sulfide	2.3	UN2204	.....	2.3, 2.1.	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
Cartridge cases, empty primed, see Cases, cartridge, empty, with primer.	.....			.....		.....	.....	.....	.....	.....		.....
Cartridges, actuating, for aircraft ejector seat catapult, fire extinguisher, canopy removal or apparatus, see Cartridges, power device.	.....			.....		.....	.....	.....	.....	.....		.....
Cartridges, explosive, see Charges, demolition.	.....			.....		.....	.....	.....	.....	.....		.....
Cartridges, flash	1.1G	UN0049	II	1.1G		None	62	None	Forbidden	Forbidden	07	.....
Cartridges, flash	1.3G	UN0050	II	1.3G		None	62	None	Forbidden	75 kg	07	.....
Cartridges for weapons, blank	1.1C	UN0326	II	1.1C		None	62	None	Forbidden	Forbidden	07	.....
Cartridges for weapons, blank	1.2C	UN0413	II	1.2C		None	62	None	Forbidden	Forbidden	07	.....
Cartridges for weapons, blank *or* Cartridges, small arms, blank.	1.4S	UN0014	II	None		63	62	None	25 kg	100 kg	05	.....
Cartridges for weapons, blank *or* Cartridges, small arms, blank.	1.3C	UN0327	II	1.3C		None	62	None	Forbidden	Forbidden	07	.....
Cartridges for weapons, blank *or* Cartridges, small arms, blank.	1.4C	UN0338	II	1.4C		None	62	None	Forbidden	75 kg	06	.....
Cartridges for weapons, inert projectile.	1.2C	UN0328	II	1.2C		None	62	None	Forbidden	Forbidden	03	.....
Cartridges for weapons, inert projectile *or* Cartridges, small arms.	1.4S	UN0012	II	None		63	62	None	25 kg	100 kg	05	.....
Cartridges for weapons, inert projectile *or* Cartridges, small arms.	1.4C	UN0339	II	1.4C		None	62	None	Forbidden	75 kg	06	.....
Cartridges for weapons, inert projectile *or* Cartridges, small arms.	1.3C	UN0417	II	1.3C		None	62	None	Forbidden	Forbidden	06	.....
Cartridges for weapons, *with bursting charge*.	1.1F	UN0005	II	1.1F		None	62	None	Forbidden	Forbidden	08	.....
Cartridges for weapons, *with bursting charge*.	1.1E	UN0006	II	1.1E		None	62	None	Forbidden	Forbidden	03	.....
Cartridges for weapons, *with bursting charge*.	1.2F	UN0007	II	1.2F		None	62	None	Forbidden	Forbidden	08	.....
Cartridges for weapons, *with bursting charge*.	1.2E	UN0321	II	1.2E		None	62	None	Forbidden	Forbidden	03	.....
Cartridges for weapons, *with bursting charge*.	1.4F	UN0348	II	1.4F		None	62	None	Forbidden	Forbidden	08	.....
Cartridges for weapons, *with bursting charge*.	1.4E	UN0412	II	1.4E		None	62	None	Forbidden	75 kg	02	.....
Cartridges, oil well	1.3C	UN0277	II	1.3C		None	62	None	Forbidden	Forbidden	07	.....
Cartridges, oil well	1.4C	UN0278	II	1.4C		None	62	None	Forbidden	75 kg	06	.....
Cartridges, power device	1.3C	UN0275	II	1.3C		None	62	None	Forbidden	75 kg	07	.....
Cartridges, power device	1.4C	UN0276	II	1.4C	110	None	62	None	Forbidden	75 kg	06	.....
Cartridges, power device	1.4S	UN0323	II	1.4S	110	63	62	None	25 kg	100 kg	05	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	(8) Packaging (§ 173.***) Non-bulk	(8) Packaging (§ 173.***) Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	(9) Quantity limitations (see §§ 173.27 and 175.75) Cargo aircraft only	(10) Vessel stowage Location	(10) Vessel stowage Other
	Cartridges, power device	1.2C	UN0381	II	1.2C		None	62	None	Forbidden	Forbidden	07	
	Cartridges, safety, blank, see Cartridges for weapons, blank *(UN 0014)*.												
	Cartridges, safety, see Cartriges for weapons, inert projectile, *or* Cartridges, small arms *or* Cartridges, power device (*UN 0323*).												
	Cartridges, signal	1.3G	UN0054	II	1.3G		None	62	None	Forbidden	75 kg	07	
	Cartridges, signal	1.4G	UN0312	II	1.4G		None	62	None	Forbidden	75 kg	06	
	Cartridges, signal	1.4S	UN0405	II	1.4S		None	62	None	25 kg	100 kg	05	
D	Cartridges, small arms	ORM-D			None		63	None	None	30 kg gross	30 kg gross	A	
D	Cartridges power device *(used to project fastening devices)*.	ORM–D			None		63	None	None	30 kg gross	30 kg gross	A	
	Cartridges, sporting, see Cartridges for weapons, inert porjectile, *or* Cartridges, small arms.												
	Cartridges, starter, jet engine, see Cartridges, power device.												
	Cases, cartridge, empty with primer.	1.4S	UN0055	II	1.4S	50	None	62	None	25 kg	100 kg	05	
	Cases, cartridges, empty with primer.	1.4C	UN0379	II	1.4C	50	None	62	None	Forbidden	75 kg	06	
	Cases, combustible, empty, without primer.	1.4C	UN0446	II	1.4C		None	62	None	Forbidden	75 kg	06	
	Cases, combustible, empty, without primer.	1.3C	UN0447	II	1.3C		None	62	None	Forbidden	Forbidden	07	
	Casinghead gasoline see Gasoline.												
A W	Castor beans *or* Castor meal *or* Castor pomace *or* Castor flake.	9	UN2969	II	None	IB8, IP2, IP4, T3, TP33	155	204	240	No limit	No limit	E	34, 40
G	Caustic alkali liquids, n.o.s.	8	UN1719	II	8	B2, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	A	29
				III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	29
	Caustic potash, see Potassium hydroxide *etc*.												

	Caustic soda, (etc.) see Sodium hydroxide *etc*.												
	Cells, containing sodium	4.3	UN3292	II	4.3		189	189	189	25 kg gross	No limit	A	
	Celluloid, *in block, rods, rolls, sheets, tubes, etc., except scrap*.	4.1	UN2000	III	4.1		None	213	240	25 kg	100 kg	A	
	Celluloid, scrap	4.2	UN2002	III	4.2	IB8, IP3	None	213	241	Forbidden	Forbidden	D	
	Cement, see Adhesives *containing flammable liquid*.												
	Cerium, *slabs, ingots, or rods*	4.1	UN1333	II	4.1	IB8, IP2, IP4, N34	None	212	240	15 kg	50 kg	A	74, 91
	Cerium, *turnings or gritty powder*.	4.3	UN3078	II	4.3	A1, IB7, IP2, T3, TP33	151	212	242	15 kg	50 kg	E	52
	Cesium *or* Caesium	4.3	UN1407	I	4.3	A7, A19, IB4, IP1, N34, N40	None	211	242	Forbidden	15 kg	D	52
	Cesium nitrate *or* Caesium nitrate.	5.1	UN1451	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
D	Charcoal *briquettes, shell, screenings, wood, etc.*.	4.2	NA1361	III	4.2	IB8, T1, TP33	151	213	240	25 kg	100 kg	A	12
	Charges, bursting, plastics bonded.	1.1D	UN0457	II	1.1D		None	62	None	Forbidden	Forbidden	07	
	Charges, bursting, plastics bonded.	1.2D	UN0458	II	1.2D		None	62	None	Forbidden	Forbidden	07	
	Charges, bursting, plastics bonded.	1.4D	UN0459	II	1.4D		None	62	None	Forbidden	75 kg	06	
	Charges, bursting, plastics bonded.	1.4S	UN0460	II	1.4S		None	62	None	25 kg	100 kg	05	
	Charges, demolition	1.1D	UN0048	II	1.1D		None	62	None	Forbidden	Forbidden	03	
	Charges, depth	1.1D	UN0056	II	1.1D		None	62	None	Forbidden	Forbidden	03	
	Charges, expelling, explosive, for fire extinguishers, see Cartridges, power device.												
	Charges, explosive, commercial *without detonator*.	1.1D	UN0442	II	1.1D		None	62	None	Forbidden	Forbidden	07	
	Charges, explosive, commercial *without detonator*.	1.2D	UN0443	II	1.2D		None	62	None	Forbidden	Forbidden	07	
	Charges, explosive, commercial *without detonator*.	1.4D	UN0444	II	1.4D		None	62	None	Forbidden	75 kg	06	
	Charges, explosive, commercial *without detonator*.	1.4S	UN0445	II	1.4S		None	62	None	25 kg	100 kg	05	
	Charges, propelling	1.1C	UN0271	II	1.1C		None	62	None	Forbidden	Forbidden	07	
	Charges, propelling	1.3C	UN0272	II	1.3C		None	62	None	Forbidden	Forbidden	07	
	Charges, propelling	1.2C	UN0415	II	1.2C		None	62	None	Forbidden	Forbidden	07	
	Charges, propelling	1.4C	UN0491	II	1.4C		None	62	None	Forbidden	75 kg	06	
	Charges, propelling, for cannon	1.3C	UN0242	II	1.3C		None	62	None	Forbidden	Forbidden	10	
	Charges, propelling, for cannon	1.1C	UN0279	II	1.1C		None	62	None	Forbidden	Forbidden	10	
	Charges, propelling, for cannon	1.2C	UN0414	II	1.2C		None	62	None	Forbidden	Forbidden	10	
	Charges, shaped, flexible, linear	1.4D	UN0237	II	1.4D		None	62	None	Forbidden	75 kg	06	
	Charges, shaped, flexible, linear	1.1D	UN0288	II	1.1D		None	62	None	Forbidden	Forbidden	07	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Charges, shaped, *without detonator*.	1.1D	UN0059	II	1.1D		None	62	None	Forbidden	Forbidden	07	
	Charges, shaped, *without detonator*.	1.2D	UN0439	II	1.2D		None	62	None	Forbidden	Forbidden	07	
	Charges, shaped, *without detonator*.	1.4D	UN0440	II	1.4D		None	62	None	Forbidden	75 kg	06	
	Charges, shaped, *without detonator*.	1.4S	UN0441	II	1.4S		None	62	None	25 kg	100 kg	05	
	Charges, supplementary explosive.	1.1D	UN0060	II	1.1D		None	62	None	Forbidden	Forbidden	10	
D	Chemical kit	8	NA1760	II	8		154	161	None	1 L	30 L	B	40
	Chemical kits	9	UN3316		9	15	161	161	None	10 kg	10 kg	A	
	Chloral, anhydrous, stabilized	6.1	UN2075	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	D	40
	Chlorate and borate mixtures	5.1	UN1458	II	5.1	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	240	5 kg	25 kg	A	56, 58
				III	5.1	A9, IB8, IP3, N34, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
	Chlorate and magnesium chloride mixture solid.	5.1	UN1459	II	5.1	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	240	5 kg	25 kg	A	56, 58
				III	5.1	A9, IB8, IP3, N34, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
	Chlorate and magnesium chloride mixture solution.	5.1	UN3407	II	5.1	A9, IB2, N34, T4, TP1	152	202	242	1 L	5 L	A	56, 58, 133
				III	5.1	A9, IB2, N34, T4, TP1	152	203	241	2.5 L	30 L	A	56, 58, 133
	Chlorate of potash, see Potassium chlorate.												
	Chlorate of soda, see Sodium chlorate.												
	Chlorates, inorganic, aqueous solution, n.o.s..	5.1	UN3210	II	5.1	IB2, T4, TP1	152	202	242	1 L	5 L	B	56, 58, 133
				III	5.1	IB2, T4, TP1	152	203	241	2.5 L	30 L	B	56, 58, 133
	Chlorates, inorganic, n.o.s.	5.1	UN1461	II	5.1	A9, IB6, IP2, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Chloric acid aqueous solution, *with not more than 10 percent chloric acid.*	5.1	UN2626	II	5.1	IB2, T4, TP1	None	229	None	Forbidden	Forbidden	D	56, 58
	Chloride of phosphorus, see Phosphorus trichloride.												

	Chloride of sulfur, see Sulfur chloride.	.....			.....		.....	.....	.....	.....	.....		.....
	Chlorinated lime, see Calcium hypochlorite mixtures, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Chlorine	2.3	UN1017	.....	2.3, 8	2, B9, B14, N86, T50, TP19	None	304	314, 315.	Forbidden	Forbidden	D	40, 51, 55, 62, 68, 89, 90
	Chlorine azide	Forbidden			.....		.....	.....	.....	.....	.....		.....
D	Chlorine dioxide, hydrate, frozen	5.1	NA9191	II	5.1, 6.1.		None	229	None	Forbidden	Forbidden	E	.....
	Chlorine dioxide (not hydrate)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Chlorine pentafluoride	2.3	UN2548	.....	2.3, 5.1, 8.	1, B7, B9, B14, N86	None	304	314	Forbidden	Forbidden	D	40, 89, 90
	Chlorine trifluoride	2.3	UN1749	.....	2.3, 5.1, 8.	2, B7, B9, B14, N86	None	304	314	Forbidden	Forbidden	D	40, 89, 90
	Chlorite solution	8	UN1908	II	8	A3, A6, A7, B2, IB2, N34, T7, TP2, TP24	154	202	242	1 L	30 L	B	26, 44, 89, 100, 141
	.....	.....		III	8	A3, A6, A7, B2, IB3, N34, T4, TP2, TP24	154	203	241	5 L	60 L	B	26, 44, 89, 100, 141
	Chlorites, inorganic, n.o.s.	5.1	UN1462	II	5.1	A7, IB6, IP2, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	1-Chloro-1,1-difluoroethane *or* Refrigerant gas R 142b.	2.1	UN2517	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	B	40
	3-Chloro-4-methylphenyl isocyanate, liquid.	6.1	UN2236	II	6.1	IB2	153	202	243	5 L	60 L	B	40
	3-Chloro-4-methylphenyl isocyanate, solid.	6.1	UN3428	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	40
	1-Chloro-1,2,2,2-tetrafluoroethane*or* Refrigerant gas R 124.	2.2	UN1021	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	4-Chloro-o-toluidine hydrochloride, solid.	6.1	UN1579	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	4-Chloro-o-toluidine hydrochloride, solution.	6.1	UN3410	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	1-Chloro-2,2,2-trifluoroethane *or* Refrigerant gas R 133a.	2.2	UN1983	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Chloroacetic acid, molten	6.1	UN3250	II	6.1, 8	IB1, T7, TP3, TP28	None	202	243	Forbidden	Forbidden	C	40
	Chloroacetic acid, solid	6.1	UN1751	II	6.1, 8	A3, A7, IB8, IP4, N34, T3, TP33	153	212	242	15 kg	50 kg	A	40
	Chloroacetic acid, solution	6.1	UN1750	II	6.1, 8	A7, IB2, N34, T7, TP2	153	202	243	1 L	30 L	C	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Chloroacetone, stabilized	6.1	UN1695	I	6.1, 3, 8.	2, B9, B14, B32, B74, N12, N32, N34, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	21, 40, 100
	Chloroacetone (unstabilized)	Forbidden											
+	Chloroacetonitrile	6.1	UN2668	II	6.1, 3	2, B9, B14, B32, B74, IB9, T20, TP2, TP38, TP45	None	227	244	Forbidden	Forbidden	A	12, 40, 52
	Chloroacetophenone, liquid, (*CN*).	6.1	UN3416	II	6.1	A3, IB2, N12, N32, N33, T7, TP2, TP13	None	202	243	Forbidden	60 L	D	12, 40
	Chloroacetophenone, solid, (*CN*)	6.1	UN1697	II	6.1	A3, IB8, IP2, IP4, N12, N32, N33, N34, T3, TP2, TP13, TP33	None	212	None	Forbidden	100 kg	D	12, 40
	Chloroacetyl chloride	6.1	UN1752	I	6.1, 8	2, B3, B8, B9, B14, B32, B74, B77, N34, N43, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Chloroanilines, liquid	6.1	UN2019	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	52
	Chloroanilines, solid	6.1	UN2018	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Chloroanisidines	6.1	UN2233	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Chlorobenzene	3	UN1134	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Chlorobenzol, see Chlorobenzene.												
	Chlorobenzotrifluorides	3	UN2234	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	40
	Chlorobenzyl chlorides, liquid	6.1	UN2235	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	Chlorobenzyl chlorides, solid	6.1	UN3427	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Chlorobutanes	3	UN1127	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Chlorocresols solution	6.1	UN2669	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	12
				III	6.1	IB3, T7, TP2	153	203	241	60 L	220 L	A	12
	Chlorocresols, solid	6.1	UN3437	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	12
	Chlorodifluorobromomethane *or* Refrigerant gas R 12B1.	2.2	UN1974		2.2	T50	306	304	314, 315.	75 kg	150 kg	A	

	Chlorodifluoromethane and chloropentafluoroethane mixture *or* Refrigerant gas R 502 *with fixed boiling point, with approximately 49 percent chlorodifluoromethane*.	2.2	UN1973	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Chlorodifluoromethane *or* Refrigerant gas R 22.	2.2	UN1018	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
+	Chlorodinitrobenzenes, liquid.	6.1	UN1577	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	B	91
+	Chlorodinitrobenzenes, solid	6.1	UN3441	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	91
	2-Chloroethanal	6.1	UN2232	I	6.1	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Chloroform	6.1	UN1888	III	6.1	IB3, N36, T7, TP2	153	203	241	60 L	220 L	A	40
G	Chloroformates, toxic, corrosive, flammable, n.o.s..	6.1	UN2742	II	6.1, 8, 3.	5, IB1, T7, TP2	153	202	243	1 L	30 L	A	12, 13, 21, 25, 40, 100
G	Chloroformates, toxic, corrosive, n.o.s..	6.1	UN3277	II	6.1, 8	IB2, T8, TP2, TP13, TP28	153	202	243	1 L	30 L	A	12, 13, 25, 40
	Chloromethyl chloroformate	6.1	UN2745	II	6.1, 8	IB2, T7, TP2, TP13	153	202	243	1 L	30 L	A	12, 13, 21, 25, 40, 100
	Chloromethyl ethyl ether	3	UN2354	II	3, 6.1	IB2, T7, TP1, TP13	150	202	243	1 L	60 L	E	40
	Chloronitroanilines	6.1	UN2237	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
+	Chloronitrobenzene, liquid *ortho*	6.1	UN3409	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
+	Chloronitrobenzenes, solid *meta or para.*	6.1	UN1578	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Chloronitrotoluenes, liquid	6.1	UN2433	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	44, 89, 100, 141
	Chloronitrotoluenes, solid	6.1	UN3457	III	6.1	IB8, IP3,T1, TP33	153	213	240	25 kg	200 kg	A	.....
	Chloropentafluoroethane *or* Refrigerant gas R 115.	2.2	UN1020	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Chlorophenolates, liquid *or* Phenolates, liquid.	8	UN2904	III	8	IB3	154	203	241	5 L	60 L	A	.....
	Chlorophenolates, solid *or* Phenolates, solid.	8	UN2905	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....
	Chlorophenols, liquid	6.1	UN2021	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	Chlorophenols, solid	6.1	UN2020	III	6.1	IB8, IP3, T1, TP1, TP33	153	213	240	100 kg	200 kg	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
+	Chloropicrin	6.1	UN1580	I	6.1	2, B7, B9, B14, B32, B46, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Chloropicrin and methyl bromide mixtures.	2.3	UN1581		2.3	2, B9, B14, N86, T50	None	193	314, 315.	Forbidden	Forbidden	D	25, 40
	Chloropicrin and methyl chloride mixtures.	2.3	UN1582		2.3	2, N86, T50	None	193	245	Forbidden	Forbidden	D	25, 40
	Chloropicrin mixture, flammable (pressure not exceeding 14.7 psia at 115 degrees F flash point below 100 degrees F) see Toxic liquids, flammable, *etc.*												
	Chloropicrin mixtures, n.o.s.	6.1	UN1583	I	6.1	5	None	201	243	Forbidden	Forbidden	C	40
				II	6.1	IB2	153	202	243	Forbidden	Forbidden	C	40
				III	6.1	IB3	153	203	241	Forbidden	Forbidden	C	40
D	Chloropivaloyl chloride	6.1	NA9263	I	6.1, 8	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	B	40
	Chloroplatinic acid, solid	8	UN2507	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
	Chloroprene, stabilized	3	UN1991	I	3, 6.1	B57, T14, TP2, TP13	None	201	243	Forbidden	30 L	D	40
	Chloroprene, uninhibited	Forbidden											
	1-Chloropropane	3	UN1278	II	3	IB2, IP8, N34, T7, TP2	None	202	242	Forbidden	60 L	E	
	2-Chloropropane	3	UN2356	I	3	N36, T11, TP2, TP13	150	201	243	1 L	30 L	E	
	3-Chloropropanol-1	6.1	UN2849	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	2-Chloropropene	3	UN2456	I	3	A3, N36, T11, TP2	150	201	243	1 L	30 L	E	
	2-Chloropropionic acid	8	UN2511	III	8	IB3, T4, TP2	154	203	241	5 L	60 L	A	8
	2-Chloropyridine	6.1	UN2822	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40
	Chlorosilanes, corrosive, n.o.s	8	UN2987	II	8	B2, IB2, T14, TP2, TP27	None	202	242	1 L	30 L	C	40.

	Chlorosilanes, flammable, corrosive, n.o.s.	3	UN2985	II	3, 8	IB1, T11, TP2, TP13, TP27	None	201	243	1 L	5 L	B	40.
	Chlorosilanes, toxic, corrosive, n.o.s.	6.1	UN3361	II	6.1, 8	IB1, T11, TP2, TP13	None	202	243	1 L	30 L	C	40.
	Chlorosilanes, toxic, corrosive, flammable, n.o.s.	6.1	UN3362	II	6.1, 3, 8.	IB1, T11, TP2, TP13	None	202	243	1 L	30 L	C	40, 125.
	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s..	4.3	UN2988	I	4.3, 3, 8.	A2, T10, TP2, TP7, TP13	None	201	244	Forbidden	1 L	D	21, 28, 40, 49, 100
+	Chlorosulfonic acid *(with or without sulfur trioxide)*.	8	UN1754	I	8, 6.1	2, B9, B10, B14, B32, B74, T20, TP2, TP12, TP38, TP45	None	227	244	Forbidden	Forbidden	C	40
	Chlorotoluenes	3	UN2238	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Chlorotoluidines, liquid	6.1	UN3429	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	Chlorotoluidines, solid	6.1	UN2239	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Chlorotrifluoromethane and trifluoromethane azeotropic mixture *or* Refrigerant gas R 503 *with approximately 60 percent chlorotrifluoromethane*.	2.2	UN2599		2.2		306	304	314, 315.	75 kg	150 kg	A	
	Chlorotrifluoromethane *or* Refrigerant gas R 13.	2.2	UN1022		2.2		306	304	314, 315.	75 kg	150 kg	A	
	Chromic acid solution	8	UN1755	II	8	B2, IB2, T8, TP2, TP12	154	202	242	1 L	30 L	C	40, 44, 89, 100, 141
				III	8	IB3, T4, TP1, TP12	154	203	241	5 L	60 L	C	40, 44, 89, 100, 141
	Chromic anhydride, see Chromium trioxide, anhydrous.												
	Chromic fluoride, solid	8	UN1756	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52
	Chromic fluoride, solution	8	UN1757	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	
				III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Chromium nitrate	5.1	UN2720	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Chromium oxychloride	8	UN1758	I	8	A3, A6, A7, B10, N34, T10, TP2, TP12	None	201	243	0.5 L	2.5 L	C	40, 66, 74, 89, 90
	Chromium trioxide, anhydrous	5.1	UN1463	II	5.1, 6.1, 8.	IB8, IP4, T3, TP33	None	212	242	5 kg	25 kg	A	
	Chromyl chloride, see Chromium oxychloride.												

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Cigar and cigarette lighters, charged with fuel, see Lighters *or* Lighter refills *containing flammable gas*..	.....			.....		.....	.....	.....	.....	.....		.....
	Coal briquettes, hot	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Coal gas, compressed	2.3	UN1023	.....	2.3, 2.1.	3	None	302	314, 315.	Forbidden	Forbidden	D	40
	Coal tar distillates, flammable	3	UN1136	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
	Coal tar dye, corrosive, liquid, n.o.s, see Dyes, liquid *or* solid, n.o.s. *or* Dye intermediates, liquid *or* solid, corrosive, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Coating solution (*includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining*).	3	UN1139	I	3	T11, TP1, TP8, TP27	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	149, IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Cobalt naphthenates, powder	4.1	UN2001	III	4.1	A19, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	.....
	Cobalt resinate, precipitated	4.1	UN1318	III	4.1	A1, A19, IB6, T1, TP33	151	213	240	25 kg	100 kg	A	.....
	Coke, hot	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Collodion, see Nitrocellulose *etc*	.....			.....		.....	.....	.....	.....	.....		.....
D G	Combustible liquid, n.o.s.	Comb liq	NA1993	III	None	IB3, T1, T4, TP1	150	203	241	60 L	220 L	A	.....
G	Components, explosive train, n.o.s.	1.2B	UN0382	II	1.2B ...	.....	None	62	None	Forbidden	Forbidden	11	
G	Components, explosive train, n.o.s.	1.4B	UN0383	II	1.4B ...	.....	None	62	None	Forbidden	75 kg	06	
G	Components, explosive train, n.o.s.	1.4S	UN0384	II	1.4S ...	.....	None	62	None	25 kg	100 kg	05	

G	Components, explosive train, n.o.s.	1.1B	UN0461	II	1.1B ...	.....	None	62	None	Forbidden	Forbidden	11	
	Composition B, see Hexolite, *etc*	.....			.....		.....	.....	.....	.....	.....		.....
D G	Compounds, cleaning liquid	8	NA1760	I	8	A7, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	40
	.....	.....		II	8	B2, IB2, N37, T11, TP2, TP27	154	202	242	1 L	30 L	B	40
	.....	.....		III	8	IB3, N37, T7, TP1, TP28	154	203	241	5 L	60 L	A	40
D G	Compounds, cleaning liquid	3	NA1993	I	3	T11, TP1	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, B52, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
D G	Compounds, tree killing, liquid *or* Compounds, weed killing, liquid.	8	NA1760	I	8	A7, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	40
	.....	.....		II	8	B2, IB2, N37, T11, TP2, TP27	154	202	242	1 L	30 L	B	40
	.....	.....		III	8	IB3, N37, T7, TP1, TP28	154	203	241	5 L	60 L	A	40
D G	Compounds, tree killing, liquid *or* Compounds, weed killing, liquid.	3	NA1993	I	3	T11, TP1	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, B52, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
D G	Compounds, tree killing, liquid *or* Compounds, weed killing, liquid.	6.1	NA2810	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	40
G	Compressed gas, flammable, n.o.s..	2.1	UN1954	.....	2.1		306	302, 305.	314, 315.	Forbidden	150 kg	D	40
G	Compressed gas, n.o.s	2.2	UN1956	.....	2.2	77	306, 307.	302, 305.	314, 315.	75 kg	150 kg	A.	
G	Compressed gas, oxidizing, n.o.s..	2.2	UN3156	.....	2.2, 5.1.	A14	306	302	314, 315.	75 kg	150 kg	D	.....
G I	Compressed gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3304	.....	2.3, 8	1	None	192	245	Forbidden	Forbidden	D	40
G I	Compressed gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3304	.....	2.3, 8	2, B9, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G I	Compressed gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3304	.....	2.3, 8	3, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
G I	Compressed gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3304	.....	2.3, 8	4	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3305	.....	2.3, 2.1, 8.	1	None	192	245	Forbidden	Forbidden	D	17, 40
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3305	.....	2.3, 2.1, 8.	2, B9, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	17, 40
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3305	.....	2.3, 2.1, 8.	3, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	17, 40
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3305	.....	2.3, 2.1, 8.	4	None	302, 305.	314, 315.	Forbidden	Forbidden	D	17, 40
G	Compressed gas, toxic, flammable, n.o.s. *Inhalation hazard Zone A*.	2.3	UN1953	.....	2.3, 2.1.	1	None	192	245	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, flammable, n.o.s. *Inhalation hazard Zone B*.	2.3	UN1953	.....	2.3, 2.1.	2, B9, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, flammable, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN1953	.....	2.3, 2.1.	3, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, flammable, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN1953	.....	2.3, 2.1.	4	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN1955	.....	2.3	1	None	192	245	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN1955	.....	2.3	2, B9, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN1955	.....	2.3	3, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN1955	.....	2.3	4	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G I	Compressed gas, toxic, oxdizing, corrosive, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3306	.....	2.3, 5.1, 8.	1	None	192	244	Forbidden	Forbidden	D	40, 89, 90

G I	Compressed gas, toxic, oxidizing, corrosive, n.o.s. *Inhalation Hazard Zone B.*	2.3	UN3306	.....	2.3, 5.1, 8.	2, B9, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40, 89, 90
G I	Compressed gas, toxic, oxidizing, corrosive, n.o.s. *Inhalation Hazard Zone C.*	2.3	UN3306	.....	2.3, 5.1, 8.	3, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40, 89, 90
G I	Compressed gas, toxic, oxidizing, corrosive, n.o.s. *Inhalation Hazard Zone D.*	2.3	UN3306	.....	2.3, 5.1, 8.	4	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40, 89, 90
G	Compressed gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone A.*	2.3	UN3303	.....	2.3, 5.1.	1	None	192	245	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone B.*	2.3	UN3303	.....	2.3, 5.1.	2, B9, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone C.*	2.3	UN3303	.....	2.3, 5.1.	3, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Compressed gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone D.*	2.3	UN3303	.....	2.3, 5.1.	4	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
D	Consumer commodity	ORM-D		.....	None		156, 306.	156, 306.	None	30 kg gross	30 kg gross	A	.....
G	Contrivances, water-activated, *with burster, expelling charge or propelling charge.*	1.2L	UN0248	II	1.2L ...	None	62	None	Forbidden.	Forbidden	08	8E, 14E, 15E, 17E	
G	Contrivances, water-activated, *with burster, expelling charge or propelling charge.*	1.3L	UN0249	II	1.3L ...	.....	None	62	None	Forbidden	Forbidden	08	8E, 14E, 15E, 17E
	Copper acetoarsenite	6.1	UN1585	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Copper acetylide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Copper amine azide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Copper arsenite	6.1	UN1586	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Copper based pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C.*	3	UN2776	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Copper based pesticides, liquid, toxic.	6.1	UN3010	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Copper based pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN3009	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	B1, IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Copper based pesticides, solid, toxic.	6.1	UN2775	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Copper chlorate	5.1	UN2721	II	5.1	A1, IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Copper chloride	8	UN2802	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....
	Copper cyanide	6.1	UN1587	II	6.1	IB8, IP2, IP4, T3, TP33	153	204	242	25 kg	100 kg	A	52
	Copper selenate, see Selenates *or* Selenites.	.....			.....		.....	.....	.....	.....	.....		.....
	Copper selenite, see Selenates *or* Selenites.	.....			.....		.....	.....	.....	.....	.....		.....
	Copper tetramine nitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
A W	Copra	4.2	UN1363	III	4.2	IB8, IP3, IP7	None	213	241	Forbidden	Forbidden	A	13, 19, 48, 119
	Cord, detonating, *flexible*	1.1D	UN0065	II	1.1D	102	63(a)	62	None	Forbidden	Forbidden	07	.....
	Cord, detonating, *flexible*	1.4D	UN0289	II	1.4D		None	62	None	Forbidden	75 kg	06	.....
	Cord detonating *or* Fuse detonating *metal clad*.	1.2D	UN0102	II	1.2D		None	62	None	Forbidden	Forbidden	07	.....
	Cord, detonating *or* Fuse, detonating *metal clad*.	1.1D	UN0290	II	1.1D		None	62	None	Forbidden	Forbidden	07	.....
	Cord, detonating, mild effect *or* Fuse, detonating, mild effect *metal clad*.	1.4D	UN0104	II	1.4D		None	62	None	Forbidden	75 kg	06	.....
	Cord, igniter	1.4G	UN0066	II	1.4G		None	62	None	Forbidden	75 kg	06	.....
	Cordeau detonant fuse, see Cord, detonating, *etc;* Cord, detonating, *flexible*.	.....			.....		.....	.....	.....	.....	.....		.....

	Cordite, see Powder, smokeless	.....			.....		.....	.....	.....	.....	.....		.....
G	Corrosive, liquid, acidic, inorganic, n.o.s.	8	UN3264	I	8	A6, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	40.
				II	8	B2, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	B	40.
				III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	40.
G	Corrosive liquid, acidic, organic, n.o.s..	8	UN3265	I	8	A6, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	40
	.....	.....		II	8	B2, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	B	40
	.....	.....		III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	40
G	Corrosive liquid, basic, inorganic, n.o.s..	8	UN3266	I	8	A6, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	40, 52
	.....	.....		II	8	B2, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	B	40, 52
	.....	.....		III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	40, 52
G	Corrosive liquid, basic, organic, n.o.s..	8	UN3267	I	8	A6, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	40, 52
	.....	.....		II	8	B2, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	B	40, 52
	.....	.....		III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	40, 52
G	Corrosive liquid, self-heating, n.o.s..	8	UN3301	I	8, 4.2	A6, B10	None	201	243	0.5 L	2.5 L	D	.....
	.....	.....		II	8, 4.2	B2, IB1	154	202	242	1 L	30 L	D	.....
G	Corrosive liquids, flammable, n.o.s..	8	UN2920	I	8, 3	A6, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	C	25, 40
	.....	.....		II	8, 3	B2, IB2, T11, TP2, TP27	None	202	243	1 L	30 L	C	25, 40
G	Corrosive liquids, n.o.s.	8	UN1760	I	8	A6, A7, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	40
	.....	.....		II	8	B2, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	B	40
	.....	.....		III	8	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	40
G	Corrosive liquids, oxidizing, n.o.s..	8	UN3093	I	8, 5.1	A6, A7	None	201	243	Forbidden	2.5 L	C	89
	.....	.....		II	8, 5.1	A6, A7, IB2	None	202	243	1 L	30 L	C	89
G	Corrosive liquids, toxic, n.o.s.	8	UN2922	I	8, 6.1	A6, A7, B10, T14, TP2, TP13, TP27	None	201	243	0.5 L	2.5 L	B	40
				II	8, 6.1	B3, IB2, T7, TP2	154	202	243	1 L	30 L	B	40
				III	8, 6.1	IB3, T7, TP1, TP28	154	203	241	5 L	60 L	B	40
G	Corrosive liquids, water-reactive, n.o.s..	8	UN3094	I	8, 4.3	A6, A7	None	201	243	Forbidden	1 L	E	.....
	.....	.....		II	8, 4.3	A6, A7	None	202	243	1 L	5 L	E	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
G	Corrosive solid, acidic, inorganic, n.o.s..	8	UN3260	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	B	
				II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	B	
				III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
G	Corrosive solid, acidic, organic, n.o.s..	8	UN3261	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	B	
				II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	B	
				III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
G	Corrosive solid, basic, inorganic, n.o.s..	8	UN3262	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	B	52
				II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	B	52
				III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	52
G	Corrosive solid, basic, organic, n.o.s..	8	UN3263	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	B	52
				II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	B	52
				III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	52
G	Corrosive solids, flammable, n.o.s..	8	UN2921	I	8, 4.1	IB6, T6, TP33	None	211	242	1 kg	25 kg	B	12, 25
				II	8, 4.1	IB8, IP2, IP4, T3, TP33	None	212	242	15 kg	50 kg	B	12, 25
G	Corrosive solids, n.o.s.	8	UN1759	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	B	
				II	8	128, IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	
				III	8	128, IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
G	Corrosive solids, oxidizing, n.o.s..	8	UN3084	I	8, 5.1	T6, TP33	None	211	242	1 kg	25 kg	C	
				II	8, 5.1	IB6, IP2, T3, TP33	None	212	242	15 kg	50 kg	C	

G	Corrosive solids, self-heating, n.o.s..	8	UN3095	I	8, 4.2	T6, TP33	None	211	243	1 kg	25 kg	C	.....
	.....	.....		II	8, 4.2	IB6, IP2, T3, TP33	None	212	242	15 kg	50 kg	C	.....
G	Corrosive solids, toxic, n.o.s.	8	UN2923	I	8, 6.1	IB7, T6, TP33	None	211	242	1 kg	25 kg	B	40
	.....	.....		II	8, 6.1	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	B	40
	.....	.....		III	8, 6.1	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	B	40, 95
G	Corrosive solids, water-reactive, n.o.s..	8	UN3096	I	8, 4.3	IB4, IP1, T6, TP33	None	211	243	1 kg	25 kg	D	.....
	.....	.....		II	8, 4.3	IB6, IP2, T3, TP33	None	212	242	15 kg	50 kg	D	.....
D W	Cotton	9	NA1365	.....	9	137, IB8, IP2, IP4, W41	None	None	None	No limit	No limit	A	.....
A W	Cotton waste, oily	4.2	UN1364	III	4.2	IB8, IP3, IP7	None	213	None	Forbidden	Forbidden	A	54
A I W	Cotton, wet	4.2	UN1365	III	4.2	IB8, IP3, IP7	None	204	241	Forbidden	Forbidden	A	.....
	Coumarin derivative pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C.*	3	UN3024	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Coumarin derivative pesticides, liquid, toxic.	6.1	UN3026	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	40
	Coumarin derivative pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C.*	6.1	UN3025	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	B1, IB3, T7, TP1, TP28	153	203	242	60 L	220 L	A	40
	Coumarin derivative pesticides, solid, toxic.	6.1	UN3027	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Cresols, liquid	6.1	UN2076	II	6.1, 8	IB2, IP2, IP4, T7, TP2	153	202	243	1 L	30 L	B	.....
	Cresols, solid	6.1	UN3455	II	6.1, 8	IB8, IP2, IP4, T3, TP33	153	212	242	15 kg	50 kg	B	.....
	Cresylic acid	6.1	UN2022	II	6.1, 8	IB2, T7, TP2, TP13	153	202	243	1 L	30 L	B	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Crotonaldehyde *or* Crotonaldehyde, stabilized.	6.1	UN1143	I	6.1, 3	2, 175, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	B	40
	Crotonic acid, liquid	8	UN3472	III	8	IB8, T1	154	203	241	5 L	60 L	A	12.
	Crotonic acid, solid	8	UN2823	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	12.
	Crotonylene	3	UN1144	I	3	T11, TP2	150	201	243	1 L	30 L	E	
	Cupriethylenediamine solution	8	UN1761	II	8, 6.1	IB2, T7, TP2	154	202	243	1 L	30 L	A	
				III	8, 6.1	IB3, T7, TP1, TP28	154	203	242	5 L	60 L	A	95
	Cutters, cable, explosive	1.4S	UN0070	II	1.4S		None	62	None	25 kg	100 kg	05	
	Cyanide or cyanide mixtures, dry, see Cyanides, inorganic, solid, n.o.s..												
	Cyanide solutions, n.o.s.	6.1	UN1935	I	6.1	B37, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40, 52
				II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	A	40, 52
				III	6.1	IB3, T7, TP2, TP13, TP28	153	203	241	60 L	220 L	A	40, 52
	Cyanides, inorganic, solid, n.o.s.	6.1	UN1588	I	6.1	IB7, IP1, N74, N75, T6, TP33	None	211	242	5 kg	50 kg	A	52
				II	6.1	IB8, IP2, IP4, N74, N75, T3, TP33	153	212	242	25 kg	100 kg	A	52
				III	6.1	IB8, IP3, N74, N75, T1, TP33	153	213	240	100 kg	200 kg	A	52
	Cyanogen	2.3	UN1026		2.3, 2.1.	2	None	304	245	Forbidden	Forbidden	D	40
	Cyanogen bromide	6.1	UN1889	I	6.1, 8	A6, A8, T6, TP33	None	211	242	1 kg	15 kg	D	40
	Cyanogen chloride, stabilized	2.3	UN1589		2.3, 8	1	None	192	245	Forbidden	Forbidden	D	40
	Cyanuric chloride	8	UN2670	II	8	IB8, IP2, IP4, T3, TP33	None	212	240	15 kg	50 kg	A	12, 40
	Cyanuric triazide	Forbidden											
	Cyclobutane	2.1	UN2601		2.1		306	304	314, 315.	Forbidden	150 kg	B	40

Cyclobutyl chloroformate	6.1	UN2744	II	6.1, 8, 3.	IB1, T7, TP2, TP13	153	202	243	1 L	30 L	A	12, 13, 21, 25, 40, 100
1,5,9-Cyclododecatriene	6.1	UN2518	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	40
Cycloheptane	3	UN2241	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
Cycloheptatriene	3	UN2603	II	3, 6.1	IB2, T7, TP1, TP13	150	202	243	1 L	60 L	E	40
Cycloheptene	3	UN2242	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	
Cyclohexane	3	UN1145	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
Cyclohexanone	3	UN1915	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Cyclohexene	3	UN2256	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
Cyclohexenyltrichlorosilane	8	UN1762	II	8	A7, B2, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
Cyclohexyl acetate	3	UN2243	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Cyclohexyl isocyanate	6.1	UN2488	I	6.1, 3	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Cyclohexyl mercaptan	3	UN3054	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	40, 95
Cyclohexylamine	8	UN2357	II	8, 3	IB2, T7, TP2	None	202	243	1 L	30 L	A	40
Cyclohexyltrichlorosilane	8	UN1763	II	8	A7, B2, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
Cyclonite and cyclotetramethylenetetranitramine mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc*.												
Cyclonite and HMX mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc*.												
Cyclonite and octogen mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc*.												
Cyclonite, *see* Cyclotrimethylenetrinitramine, *etc*.												
Cyclooctadiene phosphines, *see* 9-Phosphabicyclononanes.												
Cyclooctadienes	3	UN2520	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Cyclooctatetraene	3	UN2358	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
Cyclopentane	3	UN1146	II	3	IB2, T7, TP1	150	202	242	5 L	60 L	E	
Cyclopentane, methyl, see Methylcyclopentane.												
Cyclopentanol	3	UN2244	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Cyclopentanone	3	UN2245	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Cyclopentene	3	UN2246	II	3	IB2, IP8, T7, TP2	150	202	242	5 L	60 L	E	
	Cyclopropane	2.1	UN1027		2.1	T50	306	304	314, 315.	Forbidden	150 kg	E	40
	Cyclotetramethylene tetranitramine (dry or unphlegmatized) (HMX).	Forbidden											
	Cyclotetramethylenetetranitramine, desensitized *or* Octogen, desensitized *or* HMX, desensitized.	1.1D	UN0484	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Cyclotetramethylenetetranitramine, wetted *or* HMX, wetted *or* Octogen, wetted *with not less than 15 percent water, by mass.*	1.1D	UN0226	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Cyclotrimethylenenitramine and octogen, mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized, etc.												
	Cyclotrimethylenetrinitramine and cyclotetramethylenetetranitramine mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc.*												
	Cyclotrimethylenetrinitramine and HMX mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc.*												
	Cyclotrimethylenetrinitramine, desensitized *or* Cyclonite, desensitized *or* Hexogen, desensitized *or* RDX, desensitized.	1.1D	UN0483	II	1.1D		None	62	None	Forbidden	Forbidden	10	

	Cyclotrimethylenetrinitramine, wetted *or* Cyclonite, wetted *or* Hexogen, wetted *or* RDX, wetted *with not less than 15 percent water by mass*.	1.1D	UN0072	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	Cymenes	3	UN2046	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Dangerous Goods in Machinery *or* Dangerous Goods in Apparatus.	9	UN3363	.....	.....	136, A105	None	222	None	See A105	See A105	A.	
	Decaborane	4.1	UN1868	II	4.1, 6.1.	A19, A20, IB6, IP2, T3, TP33	None	212	None	Forbidden	50 kg	A	74
	Decahydronaphthalene	3	UN1147	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	n-Decane	3	UN2247	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Deflagrating metal salts of aromatic nitroderivatives, n.o.s..	1.3C	UN0132	II	1.3C ..		None	62	None	Forbidden	Forbidden	10	5E
	Delay electric igniter, see Igniters.	.....			.....		.....	.....	.....	.....	.....		.....
D	Denatured alcohol	3	NA1987	II	3	172, T8	150	202	242	5 L	60 L	B	
		.....		III	3	172, B1, T7	150	203	242	60 L	220 L	A	
	Depth charges, see Charges, depth.	.....			.....		.....	.....	.....	.....	.....		.....
G	Desensitized explosive, liquid, n.o.s..	3	UN3379	I	3	164	None	201	None	Forbidden	Forbidden	D	36
G	Desensitized explosive, solid, n.o.s..	4.1	UN3380	I	4.1	164	None	211	None	Forbidden	Forbidden	D	28, 36
	Detonating relays, see Detonators, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Detonator assemblies, non-electric *for blasting*.	1.1B	UN0360	II	1.1B ...		None	62	None	Forbidden	Forbidden	11	.....
	Detonator assemblies, non-electric, *for blasting*.	1.4B	UN0361	II	1.4B ...	103	63(f), 63(g).	62	None	Forbidden	75 kg	06	.....
	Detonator, assemblies, non-electric *for blasting*.	1.4S	UN0500	II	1.4S ...		63(f), 63(g).	62	None	25 kg	100 kg	05	.....
	Detonators, electric, *for blasting*	1.1B	UN0030	II	1.1B ...		63(f), 63(g).	62	None	Forbidden	Forbidden	11	.....
	Detonators, electric, *for blasting*	1.4B	UN0255	II	1.4B ...	103	63(f), 63(g).	62	None	Forbidden	75 kg	06	.....
	Detonators, electric *for blasting*	1.4S	UN0456	II	1.4S ...		63(f), 63(g).	62	None	25 kg	100 kg	05	.....
	Detonators for ammunition	1.1B	UN0073	II	1.1B ...		None	62	None	Forbidden	Forbidden	11	.....
	Detonators for ammunition	1.2B	UN0364	II	1.2B ...		None	62	None	Forbidden	Forbidden	11	.....
	Detonators for ammunition	1.4B	UN0365	II	1.4B ...	103	None	62	None	Forbidden	75 kg	06	.....
	Detonators for ammunition	1.4S	UN0366	II	1.4S ...		None	62	None	25 kg	100 kg	05	.....
	Detonators, non-electric, *for blasting*.	1.1B	UN0029	II	1.1B ...		None	62	None	Forbidden	Forbidden	11	.....
	Detonators, non-electric, *for blasting*.	1.4B	UN0267	II	1.4B ...	103	63(f), 63(g).	62	None	Forbidden	75 kg	06	.....
	Detonators, non-electric, *for blasting*.	1.4S	UN0455	II	1.4S ...	.....	63(f), 63(g),	62	None	25 kg	100 kg	05	.....
	Deuterium, compressed	2.1	UN1957	.....	2.1	N89	306	302	None	Forbidden	150 kg	E	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	Devices, small, hydrocarbon gas powered *or* Hydrocarbon gas refills for small devices *with release device*.	2.1	UN3150	.....	2.1		306	304	None	1 kg	15 kg	B	40
	Di-n-amylamine	3	UN2841	III	3, 6.1	B1, IB3, T4, TP1	150	203	242	60 L	220 L	A	.....
	Di-n-butyl peroxydicarbonate, with more than 52 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Di-n-butylamine	8	UN2248	II	8, 3	IB2, T7, TP2	None	202	243	1 L	30 L	A	.....
	2,2-Di-(tert-butylperoxy) butane, with more than 55 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Di-(tert-butylperoxy) phthalate, with more than 55 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	2,2-Di-(4,4-di-tert-butylperoxycyclohexyl) propane, with more than 42 percent with inert solid.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Di-2,4-dichlorobenzoyl peroxide, with more than 75 percent with water.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1,2-Di-(dimethylamino)ethane	3	UN2372	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Di-2-ethylhexyl phosphoric acid, see Diisooctyl acid phosphate.	.....			.....		.....	.....	.....	.....	.....		.....
	Di-(1-hydroxytetrazole) (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Di-(1-naphthoyl) peroxide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	a,a′-Di-(nitroxy) methylether	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Di-(beta-nitroxyethyl) ammonium nitrate.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diacetone alcohol	3	UN1148	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....

	Diacetone alcohol peroxides, with more than 57 percent in solution with more than 9 percent hydrogen peroxide, less than 26 percent diacetone alcohol and less than 9 percent water; total active oxygen content more than 9 percent by mass.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diacetyl, see Butanedione	.....			.....		.....	.....	.....	.....	.....		.....
	Diacetyl peroxide, solid, or with more than 25 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diallylamine	3	UN2359	II	3, 6.1, 8.	IB2, T7, TP1	150	202	243	1 L	5 L	B	21, 40, 100
	Diallylether	3	UN2360	II	3, 6.1	IB2, N12, T7, TP1, TP13	150	202	243	1 L	60 L	E	40
	4,4′-Diaminodiphenyl methane	6.1	UN2651	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	p-Diazidobenzene	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1,2-Diazidoethane	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1,1′-Diazoaminonaphthalene	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diazoaminotetrazole (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diazodinitrophenol (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diazodinitrophenol, wetted *with not less than 40 percent water or mixture of alcohol and water, by mass.*	1.1A	UN0074	II	1.1A	111, 117	None	62	None	Forbidden	Forbidden	12	.....
	Diazodiphenylmethane	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diazonium nitrates (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diazonium perchlorates (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1,3-Diazopropane	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Dibenzyl peroxydicarbonate, with more than 87 percent with water.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Dibenzyldichlorosilane	8	UN2434	II	8	B2, IB2, T7, TP2, TP13	154	202	242	1 L	30 L	C	40
	Diborane	2.3	UN1911	.....	2.3, 2.1.	1, N89	None	302	None	Forbidden	Forbidden	D	40, 57
D	Diborane mixtures	2.1	NA1911	.....	2.1	5	None	302	245	Forbidden	Forbidden	D	40, 57
	Dibromoacetylene	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1,2-Dibromobutan-3-one	6.1	UN2648	II	6.1	IB2	153	202	243	5 L	60 L	B	40
	Dibromochloropropane	6.1	UN2872	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
	.....	.....		III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
A	Dibromodifluoromethane, *R12B2*	9	UN1941	III	None	T11, TP2	155	203	241	100 L	220 L	A	25
	1,2-Dibromoethane, see Ethylene dibromide.	.....			.....		.....	.....	.....	.....	.....		.....
	Dibromomethane	6.1	UN2664	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	Dibutyl ethers	3	UN1149	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Dibutylaminoethanol	6.1	UN2873	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
	N,N′-Dichlorazodicarbonamidine (salts of) (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1,1-Dichloro-1-nitroethane	6.1	UN2650	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	12, 40, 74
D	3,5-Dichloro-2,4,6-trifluoropyridine.	6.1	NA9264	I	6.1	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	A	40
	Dichloroacetic acid	8	UN1764	II	8	A3, A6, A7, B2, IB2, N34, T8, TP2, TP12	154	202	242	1 L	30 L	A	.....
	1,3-Dichloroacetone	6.1	UN2649	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	12, 40
	Dichloroacetyl chloride	8	UN1765	II	8	A3, A6, A7, B2, B6, IB2, N34, T7, TP2	154	202	242	1 L	30 L	D	40
	Dichloroacetylene	Forbidden			.....		.....	.....	.....	.....	.....		.....
+	Dichloroanilines, liquid	6.1	UN1590	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40
	Dichloroanilines, solid	6.1	UN3442	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
+	o-Dichlorobenzene	6.1	UN1591	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	2,2′-Dichlorodiethyl ether	6.1	UN1916	II	6.1, 3	IB2, N33, N34, T7, TP2	153	202	243	5 L	60 L	A	.....
	Dichlorodifluoromethane and difluoroethane azeotropic mixture *or* Refrigerant gas R 500 *with approximately 74 percent dichlorodifluoromethane*.	2.2	UN2602	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Dichlorodifluoromethane *or* Refrigerant gas R 12.	2.2	UN1028	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Dichlorodimethyl ether, symmetrical.	6.1	UN2249	I	6.1, 3		None	201	243	Forbidden	Forbidden		40
	1,1-Dichloroethane	3	UN2362	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
	1,2-Dichloroethane, see Ethylene dichloride.	.....			.....		.....	.....	.....	.....	.....		.....
	Dichloroethyl sulfide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	1,2-Dichloroethylene	3	UN1150	II	3	IB2, T7, TP2	150	202	242	5 L	60 L	B	.....

	Dichlorofluoromethane *or* Refrigerant gas R21.	2.2	UN1029	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Dichloroisocyanuric acid, dry *or* Dichloroisocyanuric acid salts.	5.1	UN2465	II	5.1	28, IB8, IP4, T3, TP33	152	212	240	5 kg	25 kg	A	13
	Dichloroisopropyl ether	6.1	UN2490	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	B	.....
	Dichloromethane	6.1	UN1593	III	6.1	IB3, IP8, N36, T7, TP2	153	203	241	60 L	220 L	A	.....
	Dichloropentanes	3	UN1152	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Dichlorophenyl isocyanates	6.1	UN2250	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	25, 40, 48
	Dichlorophenyltrichlorosilane	8	UN1766	II	8	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	1,2-Dichloropropane	3	UN1279	II	3	IB2, N36, T4, TP1	150	202	242	5 L	60 L	B	.....
	1,3-Dichloropropanol-2	6.1	UN2750	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	12, 40
	Dichloropropene and propylene dichloride mixture, see 1,2-Dichloropropane.	.....			.....		.....	.....	.....	.....	.....		.....
	Dichloropropenes	3	UN2047	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Dichlorosilane	2.3	UN2189	.....	2.3, 2.1, 8.	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	17, 40
	1,2-Dichloro-1,1,2,2-tetrafluoroethane *or* Refrigerant gas R 114.	2.2	UN1958	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Dichlorovinylchloroarsine	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Dicycloheptadiene, see Bicyclo [2,2,1] hepta-2,5-diene, stabilized.	.....			.....		.....	.....	.....	.....	.....		.....
	Dicyclohexylamine	8	UN2565	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	.....
	Dicyclohexylammonium nitrite ...	4.1	UN2687	III	4.1	IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	48
	Dicyclopentadiene	3	UN2048	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Didymium nitrate	5.1	UN1465	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	.....
D	Diesel fuel	3	NA1993	III	None	144, B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
I	Diesel fuel	3	UN1202	III	3	144, B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Diethanol nitrosamine dinitrate (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diethoxymethane	3	UN2373	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	.....
	3,3-Diethoxypropene	3	UN2374	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Diethyl carbonate	3	UN2366	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Diethyl cellosolve, see Ethylene glycol diethyl ether.	.....			.....		.....	.....	.....	.....	.....		.....
	Diethyl ether *or* Ethyl ether	3	UN1155	I	3	T11, TP2	150	201	243	1 L	30 L	E	40
	Diethyl ketone	3	UN1156	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Diethyl peroxydicarbonate, with more than 27 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Diethyl peroxydicarbonate, with more than 27 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diethyl sulfate	6.1	UN1594	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	C	.....
	Diethyl sulfide	3	UN2375	II	3	IB2, T7, TP1, TP13	None	202	243	5 L	60 L	E	.....
	Diethylamine	3	UN1154	II	3, 8	A3, IB2, N34, T7, TP1	150	202	243	1 L	5 L	E	40
	2-Diethylaminoethanol	8	UN2686	II	8, 3	B2, IB2, T7, TP2	None	202	243	1 L	30 L	A	.....
	3-Diethyamino-propylamine.	3	UN2684	III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	.....
+	N, N-Diethylaniline	6.1	UN2432	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	Diethylbenzene	3	UN2049	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Diethyldichlorosilane	8	UN1767	II	8, 3	A7, B6, IB2, N34, T7, TP2, TP13	None	202	243	Forbidden	30 L	C	40
	Diethylene glycol dinitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diethyleneglycol dinitrate, desensitized *with not less than 25 percent non-volatile water-insoluble phlegmatizer, by mass.*	1.1D	UN0075	II	1.1D		None	62	None	Forbidden	Forbidden	13	21E
	Diethylenetriamine	8	UN2079	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	40, 52
	N,N-Diethylethylenediamine	8	UN2685	II	8, 3	IB2, T7, TP2	None	202	243	1 L	30 L	A	.....
	Diethylgold bromide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Diethylthiophosphoryl chloride	8	UN2751	II	8	B2, IB2, T7, TP2	None	212	240	15 kg	50 kg	D	12, 40
	Diethylzinc	4.2	UN1366	I	4.2, 4.3.	173, B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	18
	Difluorochloroethanes, see 1-Chloro-1,1-difluoroethanes.	.....			.....		.....	.....	.....	.....	.....		.....
	1,1-Difluoroethane *or* Refrigerant gas R 152a.	2.1	UN1030	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	B	40
	1,1-Difluoroethylene *or* Refrigerant gas R 1132a.	2.1	UN1959	.....	2.1		306	304	None	Forbidden	150 kg	E	40
	Difluoromethane *or* Refrigerant gas R 32.	2.1	UN3252	.....	2.1	T50	306	302	314, 315.	Forbidden	150 kg	D	40
	Difluorophosphoric acid, anhydrous.	8	UN1768	II	8	A6, A7, B2, IB2, N5, N34, T8, TP2, TP12	None	202	242	1 L	30 L	A	40
	2,3-Dihydropyran	3	UN2376	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....

1,8-Dihydroxy-2,4,5,7-tetranitroanthraquinone (chrysamminic acid).	Forbidden			.....		.....	.....	.....	.....	.....		.....
Diiodoacetylene	Forbidden			.....		.....	.....	.....	.....	.....		.....
Diisobutyl ketone	3	UN1157	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Diisobutylamine	3	UN2361	III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	.....
Diisobutylene, isomeric compounds.	3	UN2050	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
Diisooctyl acid phosphate	8	UN1902	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	.....
Diisopropyl ether	3	UN1159	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	40
Diisopropylamine	3	UN1158	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	.....
Diisopropylbenzene hydroperoxide, with more than 72 percent in solution.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Diketene, stabilized	6.1	UN2521	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	26, 27, 40
1,2-Dimethoxyethane	3	UN2252	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
1,1-Dimethoxyethane	3	UN2377	II	3	IB2, T7, TP1	150	202	242	5 L	60 L	B	.....
Dimethyl carbonate	3	UN1161	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
Dimethyl chlorothiophosphate, see Dimethyl thiophosphoryl chloride.	.....			.....		.....	.....	.....	.....	.....		.....
2,5-Dimethyl-2,5-dihydroperoxy hexane, with more than 82 percent with water.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dimethyl disulfide	3	UN2381	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
Dimethyl ether	2.1	UN1033	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	B	40
Dimethyl-N-propylamine	3	UN2266	II	3, 8	IB2, T7, TP2, TP13	150	202	243	1 L	5 L	B	40
Dimethyl sulfate	6.1	UN1595	I	6.1, 8	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Dimethyl sulfide	3	UN1164	II	3	IB2, IP8, T7, TP2	150	202	242	5 L	60 L	E	40
Dimethyl thiophosphoryl chloride	6.1	UN2267	II	6.1, 8	IB2, T7, TP2	153	202	243	1 L	30 L	B	25
Dimethylamine, anhydrous	2.1	UN1032	.....	2.1	N87, T50	None	304	314, 315.	Forbidden	150 kg	D	40
Dimethylamine solution	3	UN1160	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	52.
2-Dimethylaminoacetonitrile	3	UN2378	II	3, 6.1	IB2, T7, TP1	150	202	243	1 L	60 L	A	40, 52
2-Dimethylaminoethanol	8	UN2051	II	8, 3	B2, IB2, T7, TP2	154	202	243	1 L	30 L	A	.....
2-Dimethylaminoethyl acrylate	6.1	UN3302	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	D	25
2-Dimethylaminoethyl methacrylate.	6.1	UN2522	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	B	40
N,N-Dimethylaniline	6.1	UN2253	II	6.1	IB1, T7, TP2	153	202	243	5 L	60 L	A	.....
2,3-Dimethylbutane	3	UN2457	II	3	IB2, T7, TP1	150	202	242	5 L	60 L	E	.....
1, 3-Dimethylbutylamine	3	UN2379	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	52.
Dimethylcarbamoyl chloride	8	UN2262	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Dimethylcyclohexanes	3	UN2263	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	N,N-Dimethylcyclohexylamine	8	UN2264	II	8, 3	B2, IB2, T7, TP2	154	202	243	1 L	30 L	A	40
	Dimethyldichlorosilane	3	UN1162	II	3, 8	B77, IB2, T7, TP2, TP13	None	202	243	Forbidden	Forbidden	B	40
	Dimethyldiethoxysilane	3	UN2380	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Dimethyldioxanes	3	UN2707	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	N,N-Dimethylformamide	3	UN2265	III	3	B1, IB3, T2, TP2	150	203	242	60 L	220 L	A	
	Dimethylhexane dihydroperoxide (dry).	Forbidden											
	Dimethylhydrazine, symmetrical	6.1	UN2382	I	6.1, 3	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40, 52, 74.
	Dimethylhydrazine, unsymmetrical.	6.1	UN1163	I	6.1, 3, 8.	2, B7, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	21, 38, 40, 52, 100.
	2,2-Dimethylpropane	2.1	UN2044		2.1		306	304	314, 315.	Forbidden	150 kg	E	40
	Dimethylzinc	4.2	UN1370	I	4.2, 4.3.	173, B11, B16, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	18
	Dinitro-o-cresol	6.1	UN1598	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	1,3-Dinitro-5,5-dimethyl hydantoin.	Forbidden											
	Dinitro-7,8-dimethylglycoluril (dry).	Forbidden											
	1,3-Dinitro-4,5-dinitrosobenzene	Forbidden											
	1,4-Dinitro-1,1,4,4-tetramethylolbutanetetranitrate (dry).	Forbidden											
	2,4-Dinitro-1,3,5-trimethylbenzene.	Forbidden											
	Dinitroanilines	6.1	UN1596	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	91
	Dinitrobenzenes, liquid	6.1	UN1597	II	6.1	11, IB2, T7, TP2	153	202	243	5 L	60 L	A	91
				III	6.1	11, IB3, T7, TP2	153	203	241	60 L	220 L	A	91
	Dinitrobenzenes, solid	6.1	UN3443	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	91

Dinitrochlorobenzene, see Chlorodinitrobenzene.	.....			.....		.....	.....	.....	.....	.....		.....
1,2-Dinitroethane	Forbidden			.....		.....	.....	.....	.....	.....		.....
1,1-Dinitroethane (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dinitrogen tetroxide	2.3	UN1067	.....	2.3, 5.1, 8.	1, B7, B14, B45, B46, B61, B66, B67, B77, T50, TP21	None	336	314	Forbidden	Forbidden	D	40, 89, 90
Dinitroglycoluril *or* Dingu	1.1D	UN0489	II	1.1D		None	62	None	Forbidden	Forbidden	10	.....
Dinitromethane	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dinitrophenol, *dry or wetted with less than 15 percent water, by mass.*	1.1D	UN0076	II	1.1D, 6.1.		None	62	None	Forbidden	Forbidden	10	5E
Dinitrophenol solutions	6.1	UN1599	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	36
.....	.....		III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	36
Dinitrophenol, wetted *with not less than 15 percent water, by mass.*	4.1	UN1320	I	4.1, 6.1.	23, A8, A19, A20, N41	None	211	None	1 kg	15 kg	E	28, 36
Dinitrophenolates *alkali metals, dry or wetted with less than 15 percent water, by mass.*	1.3C	UN0077	II	1.3C, 6.1.		None	62	None	Forbidden	Forbidden	10	5E
Dinitrophenolates, wetted *with not less than 15 percent water, by mass.*	4.1	UN1321	I	4.1, 6.1.	23, A8, A19, A20, N41	None	211	None	1 kg	15 kg	E	28, 36
Dinitropropylene glycol	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dinitroresorcinol, *dry or wetted with less than 15 percent water, by mass.*	1.1D	UN0078	II	1.1D		None	62	None	Forbidden	Forbidden	10	5E
2,4-Dinitroresorcinol (heavy metal salts of) (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
4,6-Dinitroresorcinol (heavy metal salts of) (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dinitroresorcinol, wetted *with not less than 15 percent water, by mass.*	4.1	UN1322	I	4.1	23, A8, A19, A20, N41	None	211	None	1 kg	15 kg	E	28, 36
3,5-Dinitrosalicylic acid (lead salt) (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dinitrosobenzene	1.3C	UN0406	II	1.3C		None	62	None	Forbidden	Forbidden	10	.....
Dinitrosobenzylamidine and salts of (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
2,2-Dinitrostilbene	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dinitrotoluenes, *liquid*	6.1	UN2038	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
Dinitrotoluenes, molten	6.1	UN1600	II	6.1	T7, TP3	None	202	243	Forbidden	Forbidden	C	.....
Dinitrotoluenes, solid	6.1	UN3454	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
1,9-Dinitroxy pentamethylene-2,4, 6,8-tetramine (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
Dioxane	3	UN1165	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
Dioxolane	3	UN1166	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
Dipentene	3	UN2052	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Diphenylamine chloroarsine	6.1	UN1698	I	6.1	T6, TP33	None	201	None	Forbidden	Forbidden	D	40
	Diphenylchloroarsine, liquid	6.1	UN1699	I	6.1	A8, B14, B32, N33, N34, T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	D	40
	Diphenylchloroarsine, solid	6.1	UN3450	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	D	40
	Diphenyldichlorosilane	8	UN1769	II	8	A7, B2, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	Diphenylmethyl bromide	8	UN1770	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	D	40
	Dipicryl sulfide, *dry or wetted with less than 10 percent water, by mass*.	1.1D	UN0401	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Dipicryl sulfide, wetted *with not less than 10 percent water, by mass*.	4.1	UN2852	I	4.1	162, A2, N41, N84	None	211	None	Forbidden	0.5 kg	D	28
	Dipicrylamine, *see* Hexanitrodiphenylamine.												
	Dipropionyl peroxide, with more than 28 percent in solution.	Forbidden											
	Di-n-propyl ether	3	UN2384	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Dipropyl ketone	3	UN2710	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Dipropylamine	3	UN2383	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	
G	Disinfectant, liquid, corrosive, n.o.s..	8	UN1903	I	8	A6, A7, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	B	
G	Disinfectants, liquid, corrosive n.o.s..	8	UN1903	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	B	
				III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
G	Disinfectants, liquid, toxic, n.o.s.	6.1	UN3142	I	6.1	A4, T14, TP2, TP27	None	201	243	1 L	30 L	A	40
				II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	A	40
				III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	40
G	Disinfectants, solid, toxic, n.o.s.	6.1	UN1601	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40

	Disodium trioxosilicate	8	UN3253	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	52.
G	Dispersant gases, n.o.s. *see* Refrigerant gases, n.o.s..												
	Divinyl ether, stabilized	3	UN1167	I	3	A7, T11, TP2	None	201	243	1 L	30 L	E	40
	Dodecyltrichlorosilane	8	UN1771	II	8	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	Dry ice, *see* Carbon dioxide, solid.												
G	Dyes, liquid, corrosive, n.o.s. or Dye intermediates, liquid, corrosive, n.o.s..	8	UN2801	I	8	11, A6, B10, T14, TP2, TP27	None	201	243	0.5 L	2.5 L	A	
				II	8	11, B2, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	A	
				III	8	11, IB3, T7, TP1, TP28	154	203	241	5 L	60 L	A	
G	Dyes, liquid, toxic, n.o.s. *or* Dye intermediates, liquid, toxic, n.o.s..	6.1	UN1602	I	6.1		None	201	243	1 L	30 L	A	
				II	6.1	IB2	153	202	243	5 L	60 L	A	
				III	6.1	IB3	153	203	241	60 L	220 L	A	
G	Dyes, solid, corrosive, n.o.s. *or* Dye intermediates, solid, corrosive, n.o.s..	8	UN3147	I	8	IB7, IP1, T6, TP33	None	211	242	1 kg	25 kg	A	
				II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	
				III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
G	Dyes, solid, toxic, n.o.s. *or* Dye intermediates, solid, toxic, n.o.s..	6.1	UN3143	I	6.1	A5, IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Dynamite, see Explosive, blasting, type A.												
	Electrolyte (acid or alkali) for batteries, see Battery fluid, acid *or* Battery fluid, alkali.												
	Elevated temperature liquid, flammable, n.o.s., *with flash point above 37.8 C, at or above its flash point*.	3	UN3256	III	3	IB1, T3, TP3, TP29	None	None	247	Forbidden	Forbidden	A	
	Elevated temperature liquid, n.o.s., *at or above 100 C and below its flash point (including molten metals, molten salts, etc.)*.	9	UN3257	III	9	IB1, T3, TP3, TP29	None	None	247	Forbidden	Forbidden	A	85

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Elevated temperature solid, n.o.s., *at or above 240 C, see § 173.247(h)(4)*.	9	UN3258	III	9		247(h)(4).	None	247	Forbidden	Forbidden	A	85
	Engines, internal combustion, *flammable gas powered*.	9	UN3166		9	135	220	220	220	Forbidden	No limit	A	
	Engines, internal combustion, *flammable liquid powered*.	9	UN3166		9	135	220	220	220	No limit	No limit	A	
G	Environmentally hazardous substances, liquid, n.o.s..	9	UN3082	III	9	8, 146, IB3, T4, TP1, TP29	155	203	241	No limit	No limit	A	
G	Environmentally hazardous substances, solid, n.o.s..	9	UN3077	III	9	8, 146, B54, IB8, IP3, N20, T1, TP33	155	213	240	No limit	No limit	A	
	Epibromohydrin	6.1	UN2558	I	6.1, 3	T14, TP2, TP13	None	201	243	Forbidden	Forbidden	D	40
+	Epichlorohydrin	6.1	UN2023	II	6.1, 3	IB2, T7, TP2, TP13	153	202	243	5 L	60 L	A	40
	1,2-Epoxy-3-ethoxypropane	3	UN2752	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Esters, n.o.s.	3	UN3272	II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	
	Etching acid, liquid, n.o.s., see Hydrofluoric acid, etc.												
	Ethane	2.1	UN1035		2.1		306	304	302	Forbidden	150 kg	E	40
D	Ethane-Propane mixture, refrigerated liquid.	2.1	NA1961		2.1	T75, TP5	None	316	314, 315.	Forbidden	Forbidden	D	40
	Ethane, refrigerated liquid	2.1	UN1961		2.1	T75, TP5	None	None	315	Forbidden	Forbidden	D	40
	Ethanol amine dinitrate	Forbidden											
	Ethanol *or* Ethyl alcohol *or* Ethanol solutions *or* Ethyl alcohol solutions.	3	UN1170	II	3	24, IB2, T4, TP1	150	202	242	5 L	60 L	A	
				III	3	24, B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Ethanolamine *or* Ethanolamine solutions.	8	UN2491	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	52.
	Ether, see Diethyl ether												
	Ethers, n.o.s.	3	UN3271	II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	
	Ethyl acetate	3	UN1173	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	

	Ethyl acrylate, stabilized	3	UN1917	II	3	IB2, T4, TP1, TP13	150	202	242	5 L	60 L	B	40
	Ethyl alcohol, *see* Ethanol												
	Ethyl aldehyde, see Acetaldehyde.												
	Ethyl amyl ketone	3	UN2271	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	N-Ethylbenzyltoluidines, solid	6.1	UN3460	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	N-Ethyl-N-benzylaniline	6.1	UN2274	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	Ethyl borate	3	UN1176	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Ethyl bromide	6.1	UN1891	II	6.1	IB2, IP8, T7, TP2, TP13	153	202	243	5 L	60 L	B	40, 85
	Ethyl bromoacetate	6.1	UN1603	II	6.1, 3	IB2, T7, TP2	None	202	243	Forbidden	Forbidden	D	40
	Ethyl butyl ether	3	UN1179	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Ethyl butyrate	3	UN1180	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Ethyl chloride	2.1	UN1037		2.1	B77, N86, T50	None	322	314, 315.	Forbidden	150 kg	B	40
	Ethyl chloroacetate	6.1	UN1181	II	6.1, 3	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	Ethyl chloroformate	6.1	UN1182	I	6.1, 3, 8.	2, B9, B14, B32, B74, N34, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	21, 40, 100
	Ethyl 2-chloropropionate	3	UN2935	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
+	Ethyl chlorothioformate	8	UN2826	II	8, 6.1, 3.	2, B9, B14, B32, B74, T20, TP2, TP38, TP45	None	227	244	Forbidden	Forbidden	A	40
	Ethyl crotonate	3	UN1862	II	3	IB2, T4, TP2	150	202	242	5 L	60 L	B	
	Ethyl ether, *see* Diethyl ether												
	Ethyl fluoride *or* Refrigerant gas R161.	2.1	UN2453		2.1		306	304	314, 315.	Forbidden	150 kg	E	40
	Ethyl formate	3	UN1190	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
	Ethyl hydroperoxide	Forbidden											
	Ethyl isobutyrate	3	UN2385	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
+	Ethyl isocyanate	3	UN2481	I	3, 6.1	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40, 52
	Ethyl lactate	3	UN1192	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Ethyl mercaptan	3	UN2363	I	3	A6, T11, TP2, TP13	None	201	243	Forbidden	30 L	E	95, 102
	Ethyl methacrylate, stabilized	3	UN2277	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Ethyl methyl ether	2.1	UN1039		2.1		None	201	314, 315.	Forbidden	150 kg	B	40
	Ethyl methyl ketone *or* Methyl ethyl ketone.	3	UN1193	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Ethyl nitrite solutions	3	UN1194	I	3, 6.1		None	201	None	Forbidden	Forbidden	E	40, 105
	Ethyl orthoformate	3	UN2524	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Ethyl oxalate	6.1	UN2525	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	Ethyl perchlorate	Forbidden											

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
D	Ethyl phosphonothioic dichloride, anhydrous.	6.1	NA2927	I	6.1, 8	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
D	Ethyl phosphonous dichloride, anhydrous *pyrophoric liquid*.	6.1	NA2845	I	6.1, 4.2.	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	18
D	Ethyl phosphorodichloridate	6.1	NA2927	I	6.1, 8	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Ethyl propionate	3	UN1195	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Ethyl propyl ether	3	UN2615	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
	Ethyl silicate, see Tetraethyl silicate.												
	Ethylacetylene, stabilized	2.1	UN2452		2.1	N88	None	304	314, 315.	Forbidden	150 kg	B	40
	Ethylamine	2.1	UN1036		2.1	B77, N87, T50	None	321	314, 315.	Forbidden	150 kg	D	40
	Ethylamine, aqueous solution *with not less than 50 percent but not more than 70 percent ethylamine*.	3	UN2270	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	40, 52.
	N-Ethylaniline	6.1	UN2272	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	52, 74
	2-Ethylaniline	6.1	UN2273	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	52, 74
	Ethylbenzene	3	UN1175	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	N-Ethylbenzyltoluidines liquid	6.1	UN2753	III	6.1	IB3, T7, TP1	153	203	241	60 L	220 L	A	
	2-Ethylbutanol	3	UN2275	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	2-Ethylbutyl acetate	3	UN1177	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	2-Ethylbutyraldehyde	3	UN1178	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Ethyldichloroarsine	6.1	UN1892	I	6.1	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Ethyldichlorosilane	4.3	UN1183	I	4.3, 8, 3.	A2, A3, A7, N34, T10, TP2, TP7, TP13	None	201	244	Forbidden	1 L	D	21, 28, 40, 49, 100

Ethylene, acetylene and propylene in mixture, refrigerated liquid *with at least 71.5 percent ethylene with not more than 22.5 percent acetylene and not more than 6 percent propylene*.	2.1	UN3138	.....	2.1	T75, TP5	None	304	314, 315.	Forbidden	Forbidden	D	40, 57
Ethylene chlorohydrin	6.1	UN1135	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Ethylene	2.1	UN1962	.....	2.1		306	304	302	Forbidden	150 kg	E	40
Ethylene diamine diperchlorate	Forbidden			.....		.....	.....	.....	.....	.....		.....
Ethylene dibromide	6.1	UN1605	I	6.1	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Ethylene dibromide and methyl bromide liquid mixtures, see Methyl bromide and ethylene dibromide, liquid mixtures.	.....			.....		.....	.....	.....	.....	.....		.....
Ethylene dichloride	3	UN1184	II	3, 6.1	IB2, N36, T7, TP1	150	202	243	1 L	60 L	B	40
Ethylene glycol diethyl ether	3	UN1153	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	A	.....
.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Ethylene glycol dinitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
Ethylene glycol monoethyl ether	3	UN1171	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Ethylene glycol monoethyl ether acetate.	3	UN1172	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Ethylene glycol monomethyl ether.	3	UN1188	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Ethylene glycol monomethyl ether acetate.	3	UN1189	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Ethylene oxide and carbon dioxide mixture *with more than 87 percent ethylene oxide*.	2.3	UN3300	.....	2.3, 2.1.	4	None	304	314, 315.	Forbidden	Forbidden	D	40
Ethylene oxide and carbon dioxide mixtures *with more than 9 percent but not more than 87 percent ethylene oxide*.	2.1	UN1041	.....	2.1	T50	306	304	314, 315.	Forbidden	25 kg	B	40
Ethylene oxide and carbon dioxide mixtures *with not more than 9 percent ethylene oxide*.	2.2	UN1952	.....	2.2		306	304	314, 315.	75 kg	150 kg	A	.....
Ethylene oxide and chlorotetrafluoroethane mixture *with not more than 8.8 percent ethylene oxide*.	2.2	UN3297	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Ethylene oxide and dichlorodifluoromethane mixture, *with not more than 12.5 percent ethylene oxide*.	2.2	UN3070	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Ethylene oxide and pentafluoroethane mixture *with not more than 7.9 percent ethylene oxide*.	2.2	UN3298	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Ethylene oxide and propylene oxide mixtures, *with not more than 30 percent ethylene oxide*.	3	UN2983	I	3, 6.1	5, A11, N4, N34, T14, TP2, TP7, TP13	None	201	243	Forbidden	30 L	E	40
	Ethylene oxide and tetrafluoroethane mixture *with not more than 5.6 percent ethylene oxide*.	2.2	UN3299	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Ethylene oxide *or* Ethylene oxide with nitrogen *up to a total pressure of 1MPa (10 bar) at 50 degrees C*.	2.3	UN1040	.....	2.3, 2.1.	4, A59, T50, TP20	None	323	323	Forbidden	Forbidden	D	40
	Ethylene, refrigerated liquid *(cryogenic liquid)*.	2.1	UN1038	.....	2.1	T75, TP5	None	316	318, 319.	Forbidden	Forbidden	D	40
	Ethylenediamine	8	UN1604	II	8, 3	IB2, T7, TP2	154	202	243	1 L	30 L	A	40, 52.
	Ethyleneimine, stabilized	6.1	UN1185	I	6.1, 3	1, B9, B14, B30, B72, B77, N25, N32, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
	Ethylhexaldehyde, see Octyl aldehydes *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	2-Ethylhexyl chloroformate	6.1	UN2748	II	6.1, 8	IB2, T7, TP2, TP13	153	202	243	1 L	30 L	A	12, 13, 21, 25, 40, 100
	2-Ethylhexylamine	3	UN2276	III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	40
	Ethylphenyldichlorosilane	8	UN2435	II	8	A7, B2, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	.....
	1-Ethylpiperidine	3	UN2386	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	52.
	N-Ethyltoluidines	6.1	UN2754	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
	Ethyltrichlorosilane	3	UN1196	II	3, 8	A7, IB1, N34, T7, TP2, TP13	None	202	243	1 L	5 L	B	40.

Etiologic agent, see Infectious substances, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
Explosive articles, see Articles, explosive , n.o.s. *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
Explosive, blasting, type A	1.1D	UN0081	II	1.1D ..	.....	None	62	None	Forbidden	Forbidden	10	19E, 21E
Explosive, blasting, type B	1.1D	UN0082	II	1.1D ..	.....	None	62	None	Forbidden	Forbidden	10	19E
Explosive, blasting, type B *or* Agent blasting, Type B.	1.5D	UN0331	II	1.5D ..	105,106	None	62	None	Forbidden	Forbidden	10	19E
Explosive, blasting, type C	1.1D	UN0083	II	1.1D ..	123	None	62	None	Forbidden	Forbidden	10	22E
Explosive, blasting, type D	1.1D	UN0084	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Explosive, blasting, type E	1.1D	UN0241	II	1.1D ..	.....	None	62	None	Forbidden	Forbidden	10	19E
Explosive, blasting, type E *or* Agent blasting, Type E.	1.5D	UN0332	II	1.5D ..	105, 106	None	62	None	Forbidden	Forbidden	10	19E
Explosive, forbidden. See § 173.54.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Explosive substances, see Substances, explosive, n.o.s. *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
Explosives, slurry, see Explosive, blasting, type E.	.....			.....		.....	.....	.....	.....	.....		.....
Explosives, water gels, see Explosive, blasting, type E.	.....			.....		.....	.....	.....	.....	.....		.....
Extracts, aromatic, liquid	3	UN1169	II	3	149, IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Extracts, flavoring, liquid	3	UN1197	II	3	149, IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Fabric with animal or vegetable oil, see Fibers *or* fabrics, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
Ferric arsenate	6.1	UN1606	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
Ferric arsenite	6.1	UN1607	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
Ferric chloride, anhydrous	8	UN1773	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....
Ferric chloride, solution	8	UN2582	III	8	B15, IB3, T4, TP1	154	203	241	5 L	60 L	A	.....
Ferric nitrate	5.1	UN1466	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	.....
Ferrocerium	4.1	UN1323	II	4.1	59, A19, IB8, IP2, IP4, T3, TP33	151	212	240	15 kg	50 kg	A	.....
Ferrosilicon *with 30 percent or more but less than 90 percent silicon.*	4.3	UN1408	III	4.3, 6.1.	A1, A19, B6, IB8, IP4, IP7, T1, TP33	151	213	240	25 kg	100 kg	A	13, 40, 52, 53, 85, 103
Ferrous arsenate	6.1	UN1608	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
D Ferrous chloride, solid	8	NA1759	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
D	Ferrous chloride, solution	8	NA1760	II	8	B3, IB2, T11, TP2, TP27	154	202	242	1 L	30 L	B	40
	Ferrous metal borings *or* Ferrous metal shavings *or* Ferrous metal turnings *or* Ferrous metal cuttings *in a form liable to self-heating*.	4.2	UN2793	III	4.2	A1, A19, IB8, IP3, IP7	None	213	241	25 kg	100 kg	A	
	Fertilizer ammoniating solution *with free ammonia*.	2.2	UN1043		2.2	N87	306	304	314, 315.	Forbidden	150 kg	E	40
A I W	Fibers, animal *or* Fibers, vegetable *burnt, wet or damp*.	4.2	UN1372	III	4.2		151	213	240	Forbidden	Forbidden	A	
IW	Fibers, vegetable, dry	4.1	UN3360	III	4.1	137	151	213	240	No Limit	No Limit	A	
A W	Fibers *or* Fabrics, animal *or* vegetable *or* Synthetic, n.o.s. *with animal or vegetable oil*.	4.2	UN1373	III	4.2	137, IB8, IP3, T1, TP33	None	213	241	Forbidden	Forbidden	A	
	Fibers *or* Fabrics impregnated with weakly nitrated nitrocellulose, n.o.s..	4.1	UN1353	III	4.1	A1, IB8, IP3	None	213	240	25 kg	100 kg	D	
	Films, nitrocellulose base, from which gelatine has been removed; film scrap, see Celluloid scrap.												
	Films, nitrocellulose base, *gelatine coated (except scrap)*.	4.1	UN1324	III	4.1		None	183	None	25 kg	100 kg	D	28
	Fire extinguisher charges, *corrosive liquid*.	8	UN1774	II	8	N41	154	202	None	1 L	30 L	A	
	Fire extinguisher charges, expelling, explosive, see Cartridges, power device.												
	Fire extinguishers *containing compressed or liquefied gas*.	2.2	UN1044		2.2	18, 110	309	309	None	75 kg	150 kg	A	
	Firelighters, solid *with flammable liquid*.	4.1	UN2623	III	4.1	A1, A19	None	213	None	25 kg	100 kg	A	52
	Fireworks	1.1G	UN0333	II	1.1G	108	None	62	None	Forbidden	Forbidden	07	
	Fireworks	1.2G	UN0334	II	1.2G	108	None	62	None	Forbidden	Forbidden	07	
	Fireworks	1.3G	UN0335	II	1.3G	108	None	62	None	Forbidden	Forbidden	07	
	Fireworks	1.4G	UN0336	II	1.4G	108	None	62	None	Forbidden	75 kg	06	
	Fireworks	1.4S	UN0337	II	1.4S	108	None	62	None	25 kg	100 kg	05	
	First aid kits	9	UN3316		9	15	161	161	None	10 kg	10 kg	A	

W	Fish meal, stabilized *or* Fish scrap, stabilized.	9	UN2216	III	None	155, IB8, IP3, T1, TP33	155	218	218	No limit	No limit	B	88, 122, 128
	Fish meal, unstablized *or* Fish scrap, unstabilized.	4.2	UN1374	II	4.2	155, A1, A19, IB8, IP2, IP4, T3, TP33	None	212	241	15 kg	50 kg	B	18, 128
	Flammable compressed gas, see Compressed *or* Liquefied gas, flammable, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Flammable compressed gas (small receptacles not fitted with a dispersion device, not refillable), see Receptacles, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Flammable gas in lighters, see Lighters *or* lighter refills, *cigarettes, containing flammable gas.*	.....			.....		.....	.....	.....	.....	.....		.....
G	Flammable liquid, toxic, corrosive, n.o.s..	3	UN3286	I	3, 6.1, 8.	T14, TP2, TP13, TP27	None	201	243	Forbidden	2.5 L	E	21, 40, 100
	.....	.....		II	3, 6.1, 8.	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	5 L	B	21, 40, 100
G	Flammable liquids, corrosive, n.o.s..	3	UN2924	I	3, 8	T14, TP2	None	201	243	0.5 L	2.5 L	E	40
	.....	.....		II	3, 8	IB2, T11, TP2, TP27	150	202	243	1 L	5 L	B	40
	.....	.....		III	3, 8	B1, IB3, T7, TP1, TP28	150	203	242	5 L	60 L	A	40
G	Flammable liquids, n.o.s.	3	UN1993	I	3	T11, TP1, TP27	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, B52, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
G	Flammable liquids, toxic, n.o.s.	3	UN1992	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	E	40
	.....	.....		II	3, 6.1	IB2, T7, TP2, TP13	150	202	243	1 L	60 L	B	40
	.....	.....		III	3, 6.1	B1, IB3, T7, TP1, TP28	150	203	242	60 L	220 L	A	.....
G	Flammable solid, corrosive, inorganic, n.o.s..	4.1	UN3180	II	4.1, 8	A1, IB6, IP2, T3, TP33	151	212	242	15 kg	50 kg	D	40
	.....	.....		III	4.1, 8	A1, IB6, T1, TP33	151	213	242	25 kg	100 kg	D	40
G	Flammable solid, inorganic, n.o.s..	4.1	UN3178	II	4.1	A1, IB8, IP2, IP4, T3, TP33	151	212	240	15 kg	50 kg	B	.....
	.....	.....		III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	B	.....
G	Flammable solid, organic, molten, n.o.s..	4.1	UN3176	II	4.1	IB1, T3, TP3, TP26	151	212	240	Forbidden	Forbidden	C	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	.....	.....		III	4.1	IB1, T1, TP3, TP26	151	213	240	Forbidden	Forbidden	C	.....
G	Flammable solid, oxidizing, n.o.s..	4.1	UN3097	II	4.1, 5.1.	131	None	214	214	Forbidden	Forbidden	E	40
	.....	.....		III	4.1, 5.1.	131, T1, TP33	None	214	214	Forbidden	Forbidden	D	40
G	Flammable solid, toxic, inorganic, n.o.s..	4.1	UN3179	II	4.1, 6.1.	A1, IB6, IP2, T3, TP33	151	212	242	15 kg	50 kg	B	40
	.....	.....		III	4.1, 6.1.	A1, IB6, T1, TP33	151	213	242	25 kg	100 kg	B	40
G	Flammable solids, corrosive, organic, n.o.s..	4.1	UN2925	II	4.1, 8	A1, IB6, IP2, T3, TP33	None	212	242	15 kg	50 kg	D	40
	.....	.....		III	4.1, 8	A1, IB6, T1, TP33	151	213	242	25 kg	100 kg	D	40
G	Flammable solids, organic, n.o.s..	4.1	UN1325	II	4.1	A1, IB8, IP2, IP4, T3, TP33	151	212	240	15 kg	50 kg	B	.....
	.....	.....		III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	B	.....
G	Flammable solids, toxic, organic, n.o.s..	4.1	UN2926	II	4.1, 6.1.	A1, IB6, IP2, T3, TP33	151	212	242	15 kg	50 kg	B	40
	.....	.....		III	4.1, 6.1.	A1, IB6, T1, TP33	151	213	242	25 kg	100 kg	B	40
	Flares, aerial	1.3G	UN0093	II	1.3G ..		None	62	None	Forbidden	75 kg	07	.....
	Flares, aerial	1.4G	UN0403	II	1.4G ..		None	62	None	Forbidden	75 kg	06	.....
	Flares, aerial	1.4S	UN0404	II	1.4S ...		None	62	None	25 kg	100 kg	05	.....
	Flares, aerial	1.1G	UN0420	II	1.1G ..		None	62	None	Forbidden	Forbidden	07	.....
	Flares, aerial	1.2G	UN0421	II	1.2G ..		None	62	None	Forbidden	Forbidden	07	.....
	Flares, airplane, see Flares, aerial.	.....			.....		.....	.....	.....	.....	.....		.....
	Flares, signal, see Cartridges, signal.	.....			.....		.....	.....	.....	.....	.....		.....
	Flares, surface	1.3G	UN0092	II	1.3G ..		None	62	None	Forbidden	75 kg	07	.....
	Flares, surface	1.1G	UN0418	II	1.1G ..		None	62	None	Forbidden	Forbidden	07	.....
	Flares, surface	1.2G	UN0419	II	1.2G ..		None	62	None	Forbidden	Forbidden	07	.....
	Flares, water-activated, see Contrivances, water-activated, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Flash powder	1.1G	UN0094	II	1.1G ..		None	62	None	Forbidden	Forbidden	15	.....
	Flash powder	1.3G	UN0305	II	1.3G ..		None	62	None	Forbidden	Forbidden	15	.....
	Flue dusts, poisonous, see Arsenical dust.	.....			.....		.....	.....	.....	.....	.....		.....

Fluoric acid, see Hydrofluoric acid, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
Fluorine, compressed	2.3	UN1045	.....	2.3, 5.1, 8.	1, N86	None	302	None	Forbidden	Forbidden	D	40, 89, 90
Fluoroacetic acid	6.1	UN2642	I	6.1	IB7, IP1, T6, TP33	None	211	242	1 kg	15 kg	E	.....
Fluoroanilines	6.1	UN2941	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
Fluorobenzene	3	UN2387	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
Fluoroboric acid	8	UN1775	II	8	A6, A7, B2, B15, IB2, N3, N34, T7, TP2	154	202	242	1 L	30 L	A	.....
Fluorophosphoric acid anhydrous.	8	UN1776	II	8	A6, A7, B2, IB2, N3, N34, T8, TP2, TP12	None	202	242	1 L	30 L	A	.....
Fluorosilicates, n.o.s.	6.1	UN2856	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
Fluorosilicic acid	8	UN1778	II	8	A6, A7, B2, B15, IB2, N3, N34, T8, TP2, TP12	None	202	242	1 L	30 L	A	.....
Fluorosulfonic acid	8	UN1777	I	8	A3, A6, A7, A10, B6, B10, N3, N36, T10, TP2, TP12	None	201	243	0.5 L	2.5 L	D	40
Fluorotoluenes	3	UN2388	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
Forbidden materials. See § 173.21.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Formaldehyde, solutions, flammable.	3	UN1198	III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	40
Formaldehyde, solutions, *with not less than 25 percent formaldehyde*.	8	UN2209	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	.....
Formalin, see Formaldehyde, solutions.	.....			.....		.....	.....	.....	.....	.....		.....
Formic acid*with not less than 10% but not more than 85% acid by mass*.	8	UN3412	II	8	IB2, T7, TP2	154	202	242	1 L	30 L	A	40.
Formic acid*with not less than 5% but less than 10% acid by mass*.	8	UN3412	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	40
Formic acid *with more than 85% acid by mass*.	8	UN1779	II	8, 3	B2, B28, IB2, T7, TP2	154	202	242	1 L	30 L	A	40.
Fracturing devices, explosive, *without detonators for oil wells*.	1.1D	UN0099	II	1.1D		None	62	None	Forbidden	Forbidden	07	.....
Fuel, aviation, turbine engine	3	UN1863	I	3	144, T11, TP1, TP8, TP28	150	201	243	1 L	30 L	E	.....
.....	.....		II	3	144, IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
.....	.....		III	3	144, B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	(8) Packaging (§ 173.***) Non-bulk	(8) Packaging (§ 173.***) Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	(9) Quantity limitations (see §§ 173.27 and 175.75) Cargo aircraft only	(10) Vessel stowage Location	(10) Vessel stowage Other
	Fuel cell cartridges.*containing flammable liquids*.	3	UN3473	II	3		150	230	None	5 L	60 L	A	
D	Fuel oil *(No. 1, 2, 4, 5, or 6)*	3	NA1993	III	3	144, B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	
	Fuel system components (including fuel control units (FCU), carburetors, fuel lines, fuel pumps) see Dangerous Goods in Apparatus *or* Dangerous Goods in Machinery.												
	Fulminate of mercury (dry)	Forbidden											
	Fulminate of mercury, wet, see Mercury fulminate, *etc*.												
	Fulminating gold	Forbidden											
	Fulminating mercury	Forbidden											
	Fulminating platinum	Forbidden											
	Fulminating silver	Forbidden											
	Fulminic acid	Forbidden											
	Fumaryl chloride	8	UN1780	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	C	8, 40
	Fumigated lading, see §§ 172.302(g), 173.9 and 176.76(h).												
	Fumigated transport vehicle *or* freight container *see* § 173.9.												
	Furaldehydes	6.1	UN1199	II	6.1, 3	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	Furan	3	UN2389	I	3	T12, TP2, TP13	None	201	243	1 L	30 L	E	40
	Furfuryl alcohol	6.1	UN2874	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	52, 74
	Furfurylamine	3	UN2526	III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	40
	Fuse, detonating, *metal clad, see* Cord, detonating, *metal clad*.												
	Fuse, detonating, mild effect, *metal clad, see* Cord, detonating, mild effect, *metal clad*.												
	Fuse, igniter *tubular metal clad*	1.4G	UN0103	II	1.4G		None	62	None	Forbidden	75 kg	06	
	Fuse, non-detonating *instantaneous or quickmatch*.	1.3G	UN0101	II	1.3G		None	62	None	Forbidden	Forbidden	07	
	Fuse, safety	1.4S	UN0105	II	1.4S		None	62	None	25 kg	100 kg	05	
D	Fusee (*railway or highway*)	4.1	NA1325	II	4.1		None	184	None	15 kg	50 kg	B	
	Fusel oil	3	UN1201	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	

	Fuses, tracer, see Tracers for ammunition.	.....			.....		.....	.....	.....	.....	.....		.....
	Fuzes, combination, percussion and time, see Fuzes, detonating *(UN0257, UN0367);* Fuzes, igniting *(UN0317, UN0368)*.	.....			.....		.....	.....	.....	.....	.....		.....
	Fuzes, detonating	1.1B	UN0106	II	1.1B		None	62	None	Forbidden	Forbidden	11	.....
	Fuzes, detonating	1.2B	UN0107	II	1.2B		None	62	None	Forbidden	Forbidden	11	.....
	Fuzes, detonating	1.4B	UN0257	II	1.4B	116	None	62	None	Forbidden	75 kg	06	.....
	Fuzes, detonating	1.4S	UN0367	II	1.4S	116	None	62	None	25 kg	100 kg	05	.....
	Fuzes, detonating, *with protective features*.	1.1D	UN0408	II	1.1D		None	62	None	Forbidden	Forbidden	07	.....
	Fuzes, detonating, *with protective features*.	1.2D	UN0409	II	1.2D		None	62	None	Forbidden	Forbidden	07	.....
	Fuzes, detonating, *with protective features*.	1.4D	UN0410	II	1.4D	116	None	62	None	Forbidden	75 kg	06	.....
	Fuzes, igniting	1.3G	UN0316	II	1.3G		None	62	None	Forbidden	Forbidden	07	.....
	Fuzes, igniting	1.4G	UN0317	II	1.4G		None	62	None	Forbidden	75 kg	06	.....
	Fuzes, igniting	1.4S	UN0368	II	1.4S		None	62	None	25 kg	100 kg	05	.....
	Galactsan trinitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Gallium	8	UN2803	III	8	T1, TP33	None	162	240	20 kg	20 kg	B	48
	Gas cartridges, *(flammable) without a release device, non-refillable*.	2.1	UN2037	.....	2.1		306	304	None	1 kg	15 kg	B	40
	Gas generator assemblies (aircraft), *containing a non-flammable non-toxic gas and a propellant cartridge*.	2.2		.....	2.2		None	335	None	75 kg	150 kg	A	.....
D	Gas identification set	2.3	NA9035	.....	2.3	6	None	194	None	Forbidden	Forbidden	D	.....
	Gas oil	3	UN1202	III	3	144, B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
G	Gas, refrigerated liquid, flammable, n.o.s. *(cryogenic liquid)*.	2.1	UN3312	.....	2.1	T75, TP5	None	316	318	Forbidden	Forbidden	D	40
G	Gas, refrigerated liquid, n.o.s. *(cryogenic liquid)*.	2.2	UN3158	.....	2.2	T75, TP5	320	316	318	50 kg	500 kg	D	.....
G	Gas, refrigerated liquid, oxidizing, n.o.s. *(cryogenic liquid)*.	2.2	UN3311	.....	2.2, 5.1.	T75, TP5, TP22	320	316	318	Forbidden	Forbidden	D	.....
	Gas sample, non-pressurized, flammable, n.o.s., *not refrigerated liquid*.	2.1	UN3167	.....	2.1		306	302, 304.	None	1 L	5 L	D	.....
	Gas sample, non-pressurized, toxic, flammable, n.o.s., *not refrigerated liquid*.	2.3	UN3168	.....	2.3, 2.1.	6	306	302	None	Forbidden	1 L	D	.....
	Gas sample, non-pressurized, toxic, n.o.s., *not refrigerated liquid*.	2.3	UN3169	.....	2.3	6	306	302, 304.	None	Forbidden	1 L	D	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
D	Gasohol *gasoline mixed with ethyl alcohol, with not more than 20 percent alcohol*.	3	NA1203	II	3	144	150	202	242	5 L	60 L	E	
	Gasoline	3	UN1203	II	3	144, B1, B33, T8	150	202	242	5 L	60 L	E	
	Gasoline, casinghead, see Gasoline.												
	Gelatine, blasting, see Explosive, blasting, type A.												
	Gelatine dynamites, see Explosive, blasting, type A.												
	Germane	2.3	UN2192		2.3, 2.1.	2	None	302	245	Forbidden	Forbidden	D	40
	Glycerol-1,3-dinitrate	Forbidden											
	Glycerol gluconate trinitrate	Forbidden											
	Glycerol lactate trinitrate	Forbidden											
	Glycerol alpha-monochlorohydrin.	6.1	UN2689	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	Glyceryl trinitrate, see Nitroglycerin, *etc*.												
	Glycidaldehyde	3	UN2622	II	3, 6.1	IB2, IP8, T7, TP1	150	202	243	1 L	60 L	A	40
	Grenades, *hand or rifle, with bursting charge*.	1.1D	UN0284	II	1.1D			62	None	Forbidden	Forbidden	07	
	Grenades, *hand or rifle, with bursting charge*.	1.2D	UN0285	II	1.2D			62	None	Forbidden	Forbidden	07	
	Grenades, *hand or rifle, with bursting charge*.	1.1F	UN0292	II	1.1F			62	None	Forbidden	Forbidden	08	
	Grenades, *hand or rifle, with bursting charge*.	1.2F	UN0293	II	1.2F			62	None	Forbidden	Forbidden	08	
	Grenades, illuminating, see Ammunition, illuminating, *etc*.												
	Grenades, practice, *hand or rifle*	1.4S	UN0110	II	1.4S			62	None	25 kg	100 kg	05	
	Grenades, practice, *hand or rifle*	1.3G	UN0318	II	1.3G			62	None	Forbidden	Forbidden	07	
	Grenades, practice, *hand or rifle*	1.2G	UN0372	II	1.2G			62	None	Forbidden	Forbidden	07	
	Grenades practice *Hand or rifle*	1.4G	UN0452	II	1.4G			62	None	Forbidden	75 kg	06	
	Grenades, smoke, see Ammunition, smoke, *etc*.												
	Guanidine nitrate	5.1	UN1467	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	73
	Guanyl nitrosaminoguanylidene hydrazine (dry).	Forbidden											

	Guanyl nitrosaminoguanylidene hydrazine, wetted *with not less than 30 percent water, by mass*.	1.1A	UN0113	II	1.1A ...	111, 117	None	62	None	Forbidden	Forbidden	12	.....
	Guanyl nitrosaminoguanyltetrazene (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Guanyl nitrosaminoguanyltetrazene, wetted *or* Tetrazene, wetted *with not less than 30 percent water or mixture of alcohol and water, by mass*.	1.1A	UN0114	II	1.1A ...	111, 117	None	62	None	Forbidden	Forbidden	12	.....
	Gunpowder, compressed *or* Gunpowder in pellets, *see* Black powder *(UN 0028)*.	.....			.....		.....	.....	.....	.....	.....		.....
	Gunpowder, *granular or as a meal, see* Black powder *(UN 0027)*.	.....			.....		.....	.....	.....	.....	.....		.....
	Hafnium powder, dry	4.2	UN2545	I	4.2		None	211	242	Forbidden	Forbidden	D	.....
	.....	.....		II	4.2	A19, A20, IB6, IP2, N34, T3, TP33	None	212	241	15 kg	50 kg	D	.....
	.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	D	.....
	Hafnium powder, wetted *with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns*.	4.1	UN1326	II	4.1	A6, A19, A20, IB6, IP2, N34, T3, TP33	None	212	241	15 kg	50 kg	E	74
	Hand signal device, see Signal devices, hand.	.....			.....		.....	.....	.....	.....	.....		.....
	Hazardous substances, liquid or solid, n.o.s., see Environmentally hazardous substances, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
D G	Hazardous waste, liquid, n.o.s. ..	9	NA3082	III	9	IB3, T2, TP1	155	203	241	No limit	No limit	A	.....
D G	Hazardous waste, solid, n.o.s. ...	9	NA3077	III	9	B54, IB8, IP2, T1, TP33	155	213	240	No limit	No limit	A	.....
	Heating oil, light	3	UN1202	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Helium, compressed	2.2	UN1046	.....	2.2		306	302	302, 314.	75 kg	150 kg	A	85
	Helium, refrigerated liquid *(cryogenic liquid)*.	2.2	UN1963	.....	2.2	T75, TP5	320	316	318	50 kg	500 kg	B	.....
	Heptafluoropropane *or* Refrigerant gas R 227.	2.2	UN3296	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	n-Heptaldehyde	3	UN3056	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Heptanes	3	UN1206	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	n-Heptene	3	UN2278	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Hexachloroacetone	6.1	UN2661	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	B	12, 40
	Hexachlorobenzene	6.1	UN2729	III	6.1	B3, IB8, IP3, T1, TP33	153	203	241	60 L	220 L	A	
	Hexachlorobutadiene	6.1	UN2279	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	Hexachlorocyclopentadiene	6.1	UN2646	I	6.1	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Hexachlorophene	6.1	UN2875	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Hexadecyltrichlorosilane	8	UN1781	II	8	A7, B2, B6, IB2, N34, T7, TP2	None	202	242	Forbidden	30 L	C	40
	Hexadienes	3	UN2458	II	3	IB2, T4, TP1	None	202	242	5 L	60 L	B	
	Hexaethyl tetraphosphate and compressed gas mixtures.	2.3	UN1612		2.3	3	None	334	None	Forbidden	Forbidden	D	40
	Hexaethyl tetraphosphate, *liquid*	6.1	UN1611	II	6.1	IB2, N76, T7, TP2	153	202	243	5 L	60 L	E	40
	Hexaethyl tetraphosphate, *solid*	6.1	UN1611	II	6.1	IB8, IP2, IP4, N76	153	212	242	25 kg	100 kg	E	40
	Hexafluoroacetone	2.3	UN2420		2.3, 8	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
	Hexafluoroacetone hydrate, liquid.	6.1	UN2552	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	B	40
	Hexafluoroacetone hydrate, solid.	6.1	UN3436	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	40
	Hexafluoroethane, *or* Refrigerant gas R 116.	2.2	UN2193		2.2		306	304	314, 315.	75 kg	150 kg	A	
	Hexafluorophosphoric acid	8	UN1782	II	8	A6, A7, B2, IB2, N3, N34, T8, TP2, TP12	None	202	242	1 L	30 L	A	
	Hexafluoropropylene compressed *or* Refrigerant gas R 1216.	2.2	UN1858		2.2	T50	306	304	314, 315.	75 kg	150 kg	A	
	Hexaldehyde	3	UN1207	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Hexamethylene diisocyanate	6.1	UN2281	II	6.1	IB2, T7, TP2, TP13	153	202	243	5 L	60 L	C	13, 40
	Hexamethylene triperoxide diamine (dry).	Forbidden											

Hexamethylenediamine, solid	8	UN2280	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	12
Hexamethylenediamine solution	8	UN1783	II	8	IB2, T7, TP2	None	202	242	1 L	30 L	A	
			III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
Hexamethyleneimine	3	UN2493	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	40
Hexamethylenetetramine	4.1	UN1328	III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	
Hexamethylol benzene hexanitrate.	Forbidden											
Hexanes	3	UN1208	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
2,2′,4,4′,6,6′- Hexanitro-3,3′-dihydroxyazobenzene (dry).	Forbidden											
Hexanitroazoxy benzene	Forbidden											
N,N′-(hexanitrodiphenyl) ethylene dinitramine (dry).	Forbidden											
Hexanitrodiphenyl urea	Forbidden											
2,2′,3′,4,4′,6-Hexanitrodiphenylamine.	Forbidden											
Hexanitrodiphenylamine *or* Dipicrylamine *or* Hexyl.	1.1D	UN0079	II	1.1D		None	62	None	Forbidden	Forbidden	10	
2,3′,4,4′,6,6′-Hexanitrodiphenylether.	Forbidden											
Hexanitroethane	Forbidden											
Hexanitrooxanilide	Forbidden											
Hexanitrostilbene	1.1D	UN0392	II	1.1D		None	62	None	Forbidden	Forbidden	10	
Hexanoic acid, see Corrosive liquids, n.o.s..												
Hexanols	3	UN2282	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	74
1-Hexene	3	UN2370	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
Hexogen and cyclotetramethylenetetranitramine mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc*.												
Hexogen and HMX mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc*.												
Hexogen and octogen mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc*.												
Hexogen, *see* Cyclotrimethylenetrinitramine, *etc*.												
Hexolite, *or* Hexotol *dry or wetted with less than 15 percent water, by mass*.	1.1D	UN0118	II	1.1D		None	62	None	Forbidden	Forbidden	10	
Hexotonal	1.1D	UN0393	II	1.1D		None	62	None	Forbidden	Forbidden	10	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Hexyl, *see* Hexanitrodiphenylamine.	.....			.....		.....	.....	.....	.....	.....		.....
	Hexyltrichlorosilane	8	UN1784	II	8	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	High explosives, see individual explosives' entries.	.....			.....		.....	.....	.....	.....	.....		.....
	HMX, *see* Cyclotetramethylenete tranitramine, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Hydrazine, anhydrous	8	UN2029	I	8, 3, 6.1.	A3, A6, A7, A10, B7, B16, B53	None	201	243	Forbidden	2.5 L	D	40, 52, 125.
	Hydrazine, aqueous solution, *with not more than 37 percent hydrazine, by mass*.	6.1	UN3293	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	52.
	Hydrazine, aqueous solution, *with more than 37% hydrazine, by mass*.	8	UN2030	I	8, 6.1	B16, B53, T10, TP2, TP13	None	201	243	Forbidden	2.5 L	D	40, 52
				II	8, 6.1	B16, B53, IB2, T7, TP2, TP13	None	202	243	Forbidden	30 L	D	40, 52
				III	8, 6.1	B16, B53, IB3, T4, TP2	154	203	241	5 L	60 L	D	40, 52
	Hydrazine azide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Hydrazine chlorate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Hydrazine dicarbonic acid diazide.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Hydrazine aqueous solution, *with more than 37% hydrazine, by mass*.	8	UN2030	I	8, 6.1	151, B16, B53, T10, TP2, TP13	None	201	243	Forbidden	2.5 L	D	40
	.....	.....		II	8, 6.1	B16, B53, IB2, T7, TP2, TP13	None	202	243	Forbidden	30 L	D	40
	.....	.....		III	8, 6.1	B16, B53, IB3, T4, TP1	154	203	241	5 L	60 L	D	40
	Hydrazine perchlorate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Hydrazine selenate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Hydriodic acid, anhydrous, see Hydrogen iodide, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....
	Hydriodic acid	8	UN1787	II	8	A3, A6, B2, IB2, N41, T7, TP2	154	202	242	1 L	30 L	C	.....
	.....	.....		III	8	IB3, T4, TP1	154	203	241	5 L	60 L	C	8

	Hydrobromic acid, anhydrous, see Hydrogen bromide, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....
	Hydrobromic acid, *with more than 49 percent hydrobromic acid*.	8	UN1788	II	8	B2, B15, IB2, N41, T7, TP2	154	202	242	Forbidden	Forbidden	C	.....
	.....	.....		III	8	IB3, T4, TP1	154	203	241	Forbidden	Forbidden	C	8
	Hydrobromic acid, *with not more than 49 percent hydrobromic acid*.	8	UN1788	II	8	A3, A6, B2, B15, IB2, N41, T7, TP2	154	202	242	1 L	30 L	C	.....
	.....	.....		III	8	A3, IB3, T4, TP1	154	203	241	5 L	60 L	C	8
	Hydrocarbon gas mixture, compressed, n.o.s..	2.1	UN1964	.....	2.1		306	302	314, 315.	Forbidden	150 kg	E	40
	Hydrocarbon gas mixture, liquefied, n.o.s..	2.1	UN1965	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	E	40
	Hydrocarbons, liquid, n.o.s.	3	UN3295	I	3	144, T11, TP1, TP8, TP28	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	144, IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	144, B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
	Hydrochloric acid, anhydrous, see Hydrogen chloride, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....
	Hydrochloric acid	8	UN1789	II	8	A3, A6, B3, B15, IB2, N41, T8, TP2, TP12	154	202	242	1 L	30 L	C	.....
	.....	.....		III	8	A3, IB3, T4, TP1, TP12	154	203	241	5 L	60 L	C	8
	Hydrocyanic acid, anhydrous, see Hydrogen cyanide *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Hydrocyanic acid, aqueous solutions *or* Hydrogen cyanide, aqueous solutions *with not more than 20 percent hydrogen cyanide*.	6.1	UN1613	I	6.1	2, B61, B65, B77, B82, T20, TP2, TP13	None	195	244	Forbidden	Forbidden	D	40
D	Hydrocyanic acid, aqueous solutions *with less than 5 percent hydrogen cyanide*.	6.1	NA1613	II	6.1	IB1, T14, TP2, TP13, TP27	None	195	243	Forbidden	5 L	D	40
	Hydrocyanic acid, liquefied, see Hydrogen cyanide, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Hydrocyanic acid (prussic), unstabilized.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Hydrofluoric acid and Sulfuric acid mixtures.	8	UN1786	I	8, 6.1	A6, A7, B15, B23, N5, N34, T10, TP2, TP12, TP13	None	201	243	Forbidden	2.5 L	D	40
	Hydrofluoric acid, anhydrous, see Hydrogen fluoride, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Hydrofluoric acid, *with more than 60 percent strength*.	8	UN1790	I	8, 6.1	A6, A7, B4, B15, B23, N5, N34, T10, TP2, TP12, TP13	None	201	243	0.5 L	2.5 L	D	12, 40
	Hydrofluoric acid, *with not more than 60 percent strength*.	8	UN1790	II	8, 6.1	A6, A7, B15, IB2, N5, N34, T8, TP2, TP12	154	202	243	1 L	30 L	D	12, 40
	Hydrofluoroboric acid, see Fluoroboric acid.												
	Hydrofluorosilicic acid, see Fluorosilicic acid.												
	Hydrogen and Methane mixtures, compressed.	2.1	UN2034		2.1	N89	306	302	302, 314, 315.	Forbidden	150 kg	E	40, 57
	Hydrogen bromide, anhydrous	2.3	UN1048		2.3, 8	3, B14, N86, N89	None	304	314, 315.	Forbidden	Forbidden	D	40
	Hydrogen chloride, anhydrous	2.3	UN1050		2.3, 8	3, N86, N89	None	304	None	Forbidden	Forbidden	D	40
	Hydrogen chloride, refrigerated liquid.	2.3	UN2186		2.3, 8	3, B6	None	None	314, 315.	Forbidden	Forbidden	B	40
	Hydrogen, compressed	2.1	UN1049		2.1	N89	306	302	302, 314.	Forbidden	150 kg	E	40, 57
	Hydrogen cyanide, solution in alcohol *with not more than 45 percent hydrogen cyanide*.	6.1	UN3294	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Hydrogen cyanide, stabilized *with less than 3 percent water*.	6.1	UN1051	I	6.1, 3	1, B35, B61, B65, B77, B82	None	195	244	Forbidden	Forbidden	D	40
	Hydrogen cyanide, stabilized, *with less than 3 percent water and absorbed in a porous inert material*.	6.1	UN1614	I	6.1	5	None	195	None	Forbidden	Forbidden	D	25, 40
	Hydrogen fluoride, anhydrous	8	UN1052	I	8, 6.1	3, B7, B46, B71, B77, N86, T10, TP2	None	163	243	Forbidden	Forbidden	D	40
	Hydrogen in a metal hydride storage system.	2.1	UN3468		2.1	167	None	214	None	Forbidden	100 kg gross	D	
	Hydrogen iodide, anhydrous	2.3	UN2197		2.3	3, B14, N86, N89	None	304	314, 315.	Forbidden	Forbidden	D	40
	Hydrogen iodide solution, see Hydriodic acid.												

			III	8	IB8, IP3, N3, N34, T1, TP33	154	213	240	25 kg	100 kg	A	25, 40, 52.
Hydrogendifluoride, solid, n.o.s	8	UN1740	II	8	IB8, IP2, IP4, N3, N34, T3, TP33	None	212	240	15 kg	50 kg	A	25, 40, 52
			III	8	IB8, IP3, N3, N34, T1, TP33	154	213	240	25 kg	100 kg	A	25, 40, 52
Hydrogendifluoride solution, n.o.s.	8	UN3471	II	8, 6.1	IB2, T7, TP2	154	202	242	1 L	30 L	A	25, 40, 52.
			III	8, 6.1	IB3, T4, TP1	154	203	241	5 L	60 L	A	25, 40, 52.
Hydrogen peroxide and peroxyacetic acid mixtures, stabilized *with acids, water, and not more than 5 percent peroxyacetic acid*.	5.1	UN3149	II	5.1, 8	145, A2, A3, A6, B53, IB2, IP5, T7, TP2, TP6, TP24	None	202	243	1 L	5 L	D	25, 66, 75.
Hydrogen, peroxide, aqueous solutions *with more than 40 percent but not more than 60 percent hydrogen peroxide (stabilized as necessary)*.	5.1	UN2014	II	5.1, 8	12, A60, B53, B80, B81, B85, IB2, IP5, T7, TP2, TP6, TP24, TP37	None	202	243	Forbidden	Forbidden	D	25, 66, 75
Hydrogen peroxide, aqueous solutions *with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary)*.	5.1	UN2014	II	5.1, 8	A2, A3, A6, B53, IB2, IP5, T7, TP2, TP6, TP24, TP37	None	202	243	1 L	5 L	D	25, 66, 75.
Hydrogen, peroxide, aqueous solutions *with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)*.	5.1	UN2984	III	5.1	A1, IB2, IP5, T4, TP1, TP6, TP24, TP37	152	203	241	2.5 L	30 L	B	25, 66, 75
Hydrogen peroxide, stabilized *or* Hydrogen peroxide aqueous solutions, stabilized *with more than 60 percent hydrogen peroxide*.	5.1	UN2015	I	5.1, 8	12, B53, B80, B81, B85, T9, TP2, TP6, TP24, TP37	None	201	243	Forbidden	Forbidden	D	25, 66, 75.
Hydrogen, refrigerated liquid *)cryogenic liquid)*.	2.1	UN1966	.....	2.1	T75, TP5	None	316	318, 319.	Forbidden	Forbidden	D	40
Hydrogen selenide, anhydrous ..	2.3	UN2202	.....	2.3, 2.1.	1	None	192	245	Forbidden	Forbidden	D	40
Hydrogen sulfate, see Sulfuric acid.	.....			.....		.....	.....	.....	.....	.....		.....
Hydrogen sulfide	2.3	UN1053		2.3, 2.1.	2, B9, B14, N89	None	304	314, 315.	Forbidden	Forbidden	D	40
Hydrosilicofluoric acid, see Fluorosilicic acid.	.....			.....		.....	.....	.....	.....	.....		.....
Hydroxyl amine iodide	Forbidden			.....		.....	.....	.....	.....	.....		.....
Hydroxylamine sulfate	8	UN2865	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Hypochlorite solutions	8	UN1791	II	8	A7, B2, B15, IB2, IP5, N34, T7, TP2, TP24	154	202	242	1 L	30 L	B	26.
	Hypochlorites, inorganic, n.o.s.	5.1	UN3212	II	5.1	A9, IB8, IP2, IP4, T3, TP33	152	212	240	5 kg	25 kg	D	4, 48, 52, 56, 58, 69, 106, 116 118
	Hyponitrous acid	Forbidden											
	Igniter fuse, metal clad, see Fuse, *igniter, tubular, metal clad*.												
	Igniters	1.1G	UN0121	II	1.1G		None	62	None	Forbidden	Forbidden	07	
	Igniters	1.2G	UN0314	II	1.2G		None	62	None	Forbidden	Forbidden	07	
	Igniters	1.3G	UN0315	II	1.3G		None	62	None	Forbidden	Forbidden	07	
	Igniters	1.4G	UN0325	II	1.4G		None	62	None	Forbidden	75 kg	06	
	Igniters	1.4S	UN0454	II	1.4S		None	62	None	25 kg	100 kg	05	
	3,3′-Iminodipropylamine	8	UN2269	III	8	IB3, T4, TP2	154	203	241	5 L	60 L	A	
G	Infectious substances, affecting animals *only*.	6.2	UN2900		6.2	A82	134	196	None	50 mL or 50 g	4 L or 4 kg	B	40
G	Infectious substances, affecting humans.	6.2	UN 2814		6.2	A82	134	196	None	50 mL or 50 g	4 L or 4 kg	B	40
	Inflammable, see Flammable												
	Initiating explosives (dry)	Forbidden											
	Inositol hexanitrate (dry)	Forbidden											
G	Insecticide gases, n.o.s.	2.2	UN1968		2.2		306	304	314, 315.	75 kg	150 kg	A	
G	Insecticide gases, flammable, n.o.s..	2.1	UN3354		2.1	T50	306	304	314, 315.	Forbidden	150 kg	D	40
G	Insecticide gases, toxic, flammable, n.o.s. *Inhalation hazard Zone A*.	2.3	UN3355		2.3, 2.1.	1	None	192	245	Forbidden	Forbidden	D	40
G	Insecticide gases, toxic, flammable, n.o.s. *Inhalation hazard Zone B*.	2.3	UN3355		2.3, 2.1.	2, B9, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	40
G	Insecticide gases, toxic, flammable, n.o.s. *Inhalation hazard Zone C*.	2.3	UN3355		2.3, 2.1.	3, B14	None	302, 305.	314, 315.	Forbidden	Forbidden	D	

G	Insecticide gases, toxic, flammable, n.o.s. *Inhalation hazard Zone D.*	2.3	UN3355	.....	2.3, 2.1.	4	None	302, 305.	314, 315.	Forbidden	Forbidden	D	.....
G	Insecticide gases, toxic, n.o.s. ...	2.3	UN1967	.....	2.3	3	None	193, 334.	245	Forbidden	Forbidden	D	40
	Inulin trinitrate (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Iodine azide (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Iodine monochloride	8	UN1792	II	8	B6, IB8, IP2, IP4, N41, T7, TP2	None	212	240	Forbidden	50 kg	D	40, 66, 74, 89, 90
	Iodine pentafluoride	5.1	UN2495	I	5.1, 6.1, 8.		None	205	243	Forbidden	Forbidden	D	25, 40, 52, 66, 90
	2-Iodobutane	3	UN2390	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Iodomethylpropanes	3	UN2391	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Iodopropanes	3	UN2392	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Iodoxy compounds (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Iridium nitratopentamine iridium nitrate.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Iron chloride, see Ferric chloride	.....			.....		.....	.....	.....	.....	.....		.....
	Iron oxide, spent, *or* Iron sponge, spent *obtained from coal gas purification.*	4.2	UN1376	III	4.2	B18, IB8, IP3, T1, TP33	None	213	240	Forbidden	Forbidden	E	.....
	Iron pentacarbonyl	6.1	UN1994	I	6.1, 3	1, B9, B14, B30, B72, B77, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
	Iron sesquichloride, see Ferric chloride.	.....			.....		.....	.....	.....	.....	.....		.....
	Irritating material, see Tear gas substances, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Isobutane *see also* Petroleum gases, liquefied.	2.1	UN1969	.....	2.1	19, T50	306	304	314, 315.	Forbidden	150 kg	E	40
	Isobutanol *or* Isobutyl alcohol	3	UN1212	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Isobutyl acetate	3	UN1213	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Isobutyl acrylate, stabilized	3	UN2527	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Isobutyl alcohol, *see* Isobutanol	.....			.....		.....	.....	.....	.....	.....		.....
	Isobutyl aldehyde, *see* Isobutyraldehyde.	.....			.....		.....	.....	.....	.....	.....		.....
D	Isobutyl chloroformate	6.1	NA2742	I	6.1, 3, 8.	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	A	12, 13, 22, 25, 40, 48, 100
	Isobutyl formate	3	UN2393	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Isobutyl isobutyrate	3	UN2528	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
+	Isobutyl isocyanate	3	UN2486	I	3, 6.1	1, B9, B14, B30, B72, T22, TP2, TP13, TP27	None	226	244	Forbidden	Forbidden	D	40
	Isobutyl methacrylate, stabilized	3	UN2283	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Isobutyl propionate	3	UN2394	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	B	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Isobutylamine	3	UN1214	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	40
	Isobutylene *see also* Petroleum gases, liquefied.	2.1	UN1055		2.1	19, T50	306	304	314, 315.	Forbidden	150 kg	E	40
	Isobutyraldehyde *or* Isobutyl aldehyde.	3	UN2045	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	40
	Isobutyric acid	3	UN2529	III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	
	Isobutyronitrile	3	UN2284	II	3, 6.1	IB2, T7, TP2, TP13	150	202	243	1 L	60 L	E	40
	Isobutyryl chloride	3	UN2395	II	3, 8	IB1, T7, TP2	150	202	243	1 L	5 L	C	40
G	Isocyanates, flammable, toxic, n.o.s. *or* Isocyanate solutions, flammable, toxic, n.o.s. *flash point less than 23 degrees C.*	3	UN2478	II	3, 6.1	5, A3, A7, IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	D	40
				III	3, 6.1	5, A3, A7, IB3, T7, TP1, TP13, TP28	150	203	242	60 L	220 L	A	
G	Isocyanates, toxic, flammable, n.o.s. *or* Isocyanate solutions, toxic, flammable, n.o.s., *flash point not less than 23 degrees C but not more than 61 degrees C and boiling point less than 300 degrees C.*	6.1	UN3080	II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	25, 40, 48
G	Isocyanates, toxic, n.o.s. *or* Isocyanate solutions, toxic, n.o.s., *flash point more than 61 degrees C and boiling point less than 300 degrees C.*	6.1	UN2206	II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	E	25, 40, 48
				III	6.1	IB3, T7, TP1, TP13, TP28	153	203	241	60 L	220 L	E	25, 40, 48
	Isocyanatobenzotrifluorides	6.1	UN2285	II	6.1, 3	5, IB2, T7, TP2	153	202	243	5 L	60 L	D	25, 40, 48
	Isoheptenes	3	UN2287	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Isohexenes	3	UN2288	II	3	IB2, IP8, T11, TP1	150	202	242	5 L	60 L	E	
	Isooctane, see Octanes												
	Isooctenes	3	UN1216	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Isopentane, see Pentane												
	Isopentanoic acid, see Corrosive liquids, n.o.s..												
	Isopentenes	3	UN2371	I	3	T11, TP2	150	201	243	1 L	30 L	E	

	Isophorone diisocyanate	6.1	UN2290	III	6.1	IB3, T4, TP2	153	203	241	60 L	220 L	B	40
	Isophoronediamine	8	UN2289	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Isoprene, stabilized	3	UN1218	I	3	T11, TP2	150	201	243	1 L	30 L	E	
	Isopropanol *or* Isopropyl alcohol	3	UN1219	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Isopropenyl acetate	3	UN2403	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Isopropenylbenzene	3	UN2303	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Isopropyl acetate	3	UN1220	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Isopropyl acid phosphate	8	UN1793	III	8	IB2, T4, TP1	154	213	240	25 kg	100 kg	A	
	Isopropyl alcohol, *see* Isopropanol.												
	Isopropyl butyrate	3	UN2405	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Isopropyl chloroacetate	3	UN2947	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Isopropyl chloroformate	6.1	UN2407	I	6.1, 3, 8.	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP44	None	227	244	Forbidden	Forbidden	B	40
	Isopropyl 2-chloropropionate	3	UN2934	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Isopropyl isobutyrate	3	UN2406	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
+	Isopropyl isocyanate	3	UN2483	I	3, 6.1	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
	Isopropyl mercaptan, see Propanethiols.												
	Isopropyl nitrate	3	UN1222	II	3	IB9	150	202	None	5 L	60 L	D	
	Isopropyl phosphoric acid, see Isopropyl acid phosphate.												
	Isopropyl propionate	3	UN2409	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Isopropylamine	3	UN1221	I	3, 8	T11, TP2	None	201	243	0.5 L	2.5 L	E	
	Isopropylbenzene	3	UN1918	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Isopropylcumyl hydroperoxide, with more than 72 percent in solution.	Forbidden											
	Isosorbide dinitrate mixture *with not less than 60 percent lactose, mannose, starch or calcium hydrogen phosphate*.	4.1	UN2907	II	4.1	IB6, IP2, N85	None	212	None	15 kg	50 kg	E	28, 36
	Isosorbide-5-mononitrate	4.1	UN3251	III	4.1	66, IB8	151	213	240	Forbidden	Forbidden	D	12
	Isothiocyanic acid	Forbidden											
	Jet fuel, see Fuel aviation, turbine engine.												
D	Jet perforating guns, charged oil well, with detonator.	1.1D	NA0124	II	1.1D	55, 56	None	62	None	Forbidden	Forbidden	07	
D	Jet perforating guns, charged oil well, with detonator.	1.4D	NA0494	II	1.4D	55, 56	None	62	None	Forbidden	Forbidden	06	
	Jet perforating guns, charged *oil well, without detonator*.	1.1D	UN0124	II	1.1D	55	None	62	None	Forbidden	Forbidden	07	
	Jet perforating guns, charged, *oil well, without detonator*.	1.4D	UN0494	II	1.4D	55, 114	None	62	None	Forbidden	300 kg	06	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Jet perforators, see Charges, shaped, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Jet tappers, without detonator, see Charges, shaped, *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Jet thrust igniters, for rocket motors or Jato, see Igniters.	.....			.....		.....	.....	.....	.....	.....		.....
	Jet thrust unit (Jato), see Rocket motors.	.....			.....		.....	.....	.....	.....	.....		.....
	Kerosene	3	UN1223	III	3	144, B1, IB3, T2, TP2	150	203	242	60 L	220 L	A	.....
G	Ketones, liquid, n.o.s.	3	UN1224	I	3	T11, TP1, TP8, TP27	None	201	243	1 L	30 L	E	.....
	.....	.....		II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
	Krypton, compressed	2.2	UN1056	.....	2.2		306	302	None	75 kg	150 kg	A	.....
	Krypton, refrigerated liquid *(cryogenic liquid)*.	2.2	UN1970	.....	2.2	T75, TP5	320	None	None	50 kg	500 kg	B	.....
	Lacquer base or lacquer chips, nitrocellulose, dry, see Nitrocellulose, etc. (UN 2557).	.....			.....		.....	.....	.....	.....	.....		.....
	Lacquer base or lacquer chips, plastic, wet with alcohol or solvent, see Nitrocellulose *(UN2059, UN2555, UN2556, UN2557) or* Paint etc.(UN1263).	.....			.....		.....	.....	.....	.....	.....		.....
	Lead acetate	6.1	UN1616	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Lead arsenates	6.1	UN1617	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Lead arsenites	6.1	UN1618	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Lead azide (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Lead azide, wetted *with not less than 20 percent water or mixture of alcohol and water, by mass*.	1.1A	UN0129	II	1.1A	111, 117	None	62	None	Forbidden	Forbidden	12	.....
	Lead compounds, soluble, n.o.s.	6.1	UN2291	III	6.1	138, IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....

Lead cyanide	6.1	UN1620	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	52
Lead dioxide	5.1	UN1872	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
Lead dross, see Lead sulfate, *with more than 3 percent free acid*.												
Lead nitrate	5.1	UN1469	II	5.1, 6.1.	IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	
Lead nitroresorcinate (dry)	Forbidden											
Lead perchlorate, solid	5.1	UN1470	II	5.1, 6.1.	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
Lead perchlorate, solution	5.1	UN3408	II	5.1, 6.1.	IB2, T4, TP1	152	202	243	1 L	5 L	A	56, 58
			III	5.1, 6.1.	IB2, T4, TP1	152	203	242	2.5 L	30 L	A	56, 58
Lead peroxide, see Lead dioxide												
Lead phosphite, dibasic	4.1	UN2989	II	4.1	IB8, IP2, IP4, T3, TP33	None	212	240	15 kg	50 kg	B	34.
			III	4.1	IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	B	34.
Lead picrate (dry)	Forbidden											
Lead styphnate (dry)	Forbidden											
Lead styphnate, wetted *or* Lead trinitroresorcinate, wetted *with not less than 20 percent water or mixture of alcohol and water, by mass*.	1.1A	UN0130	II	1.1A	111, 117	None	62	None	Forbidden	Forbidden	12	
Lead sulfate *with more than 3 percent free acid*.	8	UN1794	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	
Lead trinitroresorcinate, *see* Lead styphnate, *etc*.												
Life-saving appliances, not self inflating *containing dangerous goods as equipment*.	9	UN3072		None		None	219	None	No limit	No limit	A	
Life-saving appliances, self inflating.	9	UN2990		None		None	219	None	No limit	No limit	A	
Lighters *containing flammable gas*.	2.1	UN1057		2.1	168	21,308	21,308	None	1 kg	15 kg	B	40
Lighters, new or empty, purged of all residual fuel and vapors.					168							
Lighters, *non-pressurized, containing flammable liquid,*.	3	NA1057	II	3	168	21	None	None	Forbidden	Forbidden	B	40
Lighter refills *containing flammable gas not exceeding 4 fluid ounces (7.22 cubic inches) and 65 grams of flammable gas*.	2.1	UN1057		2.1	169	306	306	None	1 kg	15 kg	B	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Lighter replacement cartridges containing liquefied petroleum gases see Lighter *refills containing flammable gas. Etc.*												
	Lighters *containing flammable gas*.	2.1	UN1057	.....	2.1	168	21,308	21,308	None	1 kg	15 kg	B	40
	Lighters, new or empty, purged of all residual fuel and vapors.	.....		.....	.....	168							
	Lighters*, non-pressurized, containing flammable liquid,*.	3	NA1057	II	3	168	21	None	None	Forbidden	Forbidden	B	40
	Lighter refills *containing flammable gas not exceeding 4 fluid ounces (7.22 cubic inches) and 65 grams of flammable gas*.	2.1	UN1057	.....	2.1	169	306	306	None	1 kg	15 kg	B	40
	Lighter replacement cartridges containing liquefied petroleum gases see Lighter *refills containing flammable gas. Etc.*												
	Lighters, fuse	1.4S	UN0131	II	1.4S ...		None	62	None	25 kg	100 kg	05	
	Lime, unslaked, see Calcium oxide.	.....			.....		.....	.....	.....	.....	.....		.....
G	Liquefied gas, flammable, n.o.s.	2.1	UN3161	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	D	40
G	Liquefied gas, n.o.s.	2.2	UN3163	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
G	Liquefied gas, oxidizing, n.o.s. ..	2.2	UN3157	.....	2.2, 5.1.	A14	306	304	314, 315.	75 kg	150 kg	D	.....
G I	Liquefied gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3308	.....	2.3, 8	1	None	192	245	Forbidden	Forbidden	D	40
G I	Liquefied gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3308	.....	2.3, 8	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
G I	Liquefied gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3308	.....	2.3, 8	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
G I	Liquefied gas, toxic, corrosive, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3308	.....	2.3, 8	4	None	304	314, 315.	Forbidden	Forbidden	D	40

G I	Liquefied gas, toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3309	.....	2.3, 2.1, 8.	1	None	192	245	Forbidden	Forbidden	D	17, 40
G I	Liquefied gas toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3309	.....	2.3, 2.1, 8.	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	17, 40
G I	Liquefied gas, toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3309	.....	2.3, 2.1, 8.	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	17, 40
G I	Liquefied gas, toxic, flammable, corrosive, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3309	.....	2.3, 2.1, 8.	4	None	304	314, 315.	Forbidden	Forbidden	D	17, 40
G	Liquefied gas, toxic, flammable, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3160	.....	2.3, 2.1.	1	None	192	245	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, flammable, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3160	.....	2.3, 2.1.	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, flammable, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3160	.....	2.3, 2.1.	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, flammable, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3160	.....	2.3, 2.1.	4	None	304	314, 315.	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3162	.....	2.3	1	None	192	245	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3162	.....	2.3	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3162	.....	2.3	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3162	.....	2.3	4	None	304	314, 315.	Forbidden	Forbidden	D	40
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3310	.....	2.3, 5.1, 8.	1	None	192	245	Forbidden	Forbidden	D	40, 89, 90
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3310	.....	2.3, 5.1, 8.	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	40, 89, 90
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3310	.....	2.3, 5.1, 8.	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	40, 89, 90
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3310	.....	2.3, 5.1, 8.	4	None	304	314, 315.	Forbidden	Forbidden	D	40, 89, 90
G	Liquefied gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone A*.	2.3	UN3307	.....	2.3, 5.1.	1	None	192	245	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone B*.	2.3	UN3307	.....	2.3, 5.1.	2, B9, B14	None	304	314, 315.	Forbidden	Forbidden	D	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
G	Liquefied gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone C*.	2.3	UN3307	.....	2.3, 5.1.	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
G	Liquefied gas, toxic, oxidizing, n.o.s. *Inhalation Hazard Zone D*.	2.3	UN3307	.....	2.3, 5.1.	4	None	304	314, 315.	Forbidden	Forbidden	D	40
	Liquefied gases, *non-flammable charged with nitrogen, carbon dioxide or air*.	2.2	UN1058	.....	2.2		306	304	None	75 kg	150 kg	A	.....
	Liquefied hydrocarbon gas, see Hydrocarbon gas mixture, liquefied, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Liquefied natural gas, see Methane, etc. (UN 1972).	.....			.....		.....	.....	.....	.....	.....		.....
	Liquefied petroleum gas *see* Petroleum gases, liquefied.	.....			.....		.....	.....	.....	.....	.....		.....
	Lithium	4.3	UN1415	I	4.3	A7, A19, IB4, IP1, N45	None	211	244	Forbidden	15 kg	E	52
	Lithium acetylide ethylenediamine complex, see Water reactive solid *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Lithium alkyls, liquid	4.2	UN2445	I	4.2, 4.3.	173, B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	.....
	Lithium alkyls, solid	4.2	UN3433	I	4.2, 4.3.	173, B11, T21, TP7, TP33	None	181	244	Forbidden	Forbidden	D	.....
	Lithium aluminum hydride	4.3	UN1410	I	4.3	A19	None	211	242	Forbidden	15 kg	E	52
	Lithium aluminum hydride, ethereal.	4.3	UN1411	I	4.3, 3	A2, A3, A11, N34	None	201	244	Forbidden	1 L	D	40
	Lithium batteries, contained in equipment.	9	UN3091	II	9	29, A54, A55, A102, A104	185	185	None	See A102, A104	35 kg	A	.....
	Lithium batteries packed with equipment.	9	UN3091	II	9	29, A54, A55, A101, A103	185	185	None	See A101, A103	35 kg gross	A	.....
	Lithium battery	9	UN3090	II	9	29, A54, A55, A100	185	185	None	See A100	35 kg gross	A	.....
	Lithium borohydride	4.3	UN1413	I	4.3	A19, N40	None	211	242	Forbidden	15 kg	E	52
	Lithium ferrosilicon	4.3	UN2830	II	4.3	A19, IB7, IP2, T3, TP33	151	212	241	15 kg	50 kg	E	40, 85, 103
	Lithium hydride	4.3	UN1414	I	4.3	A19, N40	None	211	242	Forbidden	15 kg	E	52
	Lithium hydride, fused solid	4.3	UN2805	II	4.3	A8, A19, A20, IB4, T3, TP33	151	212	241	15 kg	50 kg	E	52

Lithium hydroxide	8	UN2680	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52.
Lithium hydroxide, solution	8	UN2679	II III	8 8	B2, IB2, T7, TP2 IB3, T4, TP2	154 154	202 203	242 241	1 L 5 L	30 L 60 L	A A	29, 52. 29, 52, 96.
Lithium hypochlorite, dry *with more than 39% available chlorine (8.8% available oxygen) or* Lithium hypochlorite mixtures, dry *with more than 39% available chlorine (8.8% available oxygen).*	5.1	UN1471	II	5.1	A9, IB8, IP2, IP4, N34	152	212	240	5 kg	25 kg	A	4, 48, 52, 56, 58, 69, 106, 116
Lithium in cartridges, see Lithium.												
Lithium nitrate	5.1	UN2722	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
Lithium nitride	4.3	UN2806	I	4.3	A19, IB4, IP1, N40	None	211	242	Forbidden	15 kg	E	
Lithium peroxide	5.1	UN1472	II	5.1	A9, IB6, IP2, N34, T3, TP33	152	212	None	5 kg	25 kg	A	13, 52, 66, 75
Lithium silicon	4.3	UN1417	II	4.3	A19, A20, IB7, IP2, T3, TP33	151	212	241	15 kg	50 kg	A	85, 103
LNG, see Methane etc. (UN 1972).												
London purple	6.1	UN1621	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
LPG, see Petroleum gases, liquefied.												
Lye, see Sodium hydroxide, solutions.												
Magnesium alkyls	4.2	UN3053	I	4.2, 4.3.	B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	18
Magnesium aluminum phosphide.	4.3	UN1419	I	4.3, 6.1.	A19, N34, N40	None	211	242	Forbidden	15 kg	E	40, 52, 85
+ Magnesium arsenate	6.1	UN1622	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
Magnesium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s..												
Magnesium bromate	5.1	UN1473	II	5.1	A1, IB8, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
Magnesium chlorate	5.1	UN2723	II	5.1	IB8, IP2, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
Magnesium diamide	4.2	UN2004	II	4.2	A8, A19, A20, IB6, T3, TP33	None	212	241	15 kg	50 kg	C	
Magnesium diphenyl	4.2	UN2005	I	4.2	173, T21, TP7, TP33	None	187	244	Forbidden	Forbidden	C	
Magnesium dross, wet or hot	Forbidden											
Magnesium fluorosilicate	6.1	UN2853	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Magnesium granules, coated, *particle size not less than 149 microns*.	4.3	UN2950	III	4.3	A1, A19, IB8, IP4, T1, TP33	151	213	240	25 kg	100 kg	A	52
	Magnesium hydride	4.3	UN2010	I	4.3	A19, N40	None	211	242	Forbidden	15 kg	E	52
	Magnesium *or* Magnesium alloys *with more than 50 percent magnesium in pellets, turnings or ribbons*.	4.1	UN1869	III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	39, 52, 53, 74, 101
	Magnesium nitrate	5.1	UN1474	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Magnesium perchlorate	5.1	UN1475	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Magnesium peroxide	5.1	UN1476	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	13, 52, 66, 75
	Magnesium phosphide	4.3	UN2011	I	4.3, 6.1.	A19, N40	None	211	None	Forbidden	15 kg	E	40, 52, 85
	Magnesium, powder *or* Magnesium alloys, powder.	4.3	UN1418	I	4.3, 4.2.	A19, B56	None	211	244	Forbidden	15 kg	A	39, 52
				II	4.3, 4.2.	A19, B56, IB5, IP2, T3, TP33	None	212	241	15 kg	50 kg	A	39, 52
				III	4.3, 4.2.	A19, B56, IB8, IP4, T1, TP33	None	213	241	25 kg	100 kg	A	39, 52
	Magnesium scrap, see Magnesium, etc. (UN 1869).												
	Magnesium silicide	4.3	UN2624	II	4.3	A19, A20, IB7, IP2, T3, TP33	151	212	241	15 kg	50 kg	B	85, 103
	Magnetized material, see § 173.21.												
	Maleic anhydride	8	UN2215	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
	Maleic anhydride, molten	8	UN2215	III	8	T4, TP3	None	213	240	Forbidden	Forbidden	A	
	Malononitrile	6.1	UN2647	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	12
	Mancozeb (manganese ethylenebisdithiocarbamate complex with zinc) see Maneb.												
	Maneb *or* Maneb preparations *with not less than 60 percent maneb*.	4.2	UN2210	III	4.2, 4.3.	57, A1, A19, IB6, T1, TP33	None	213	242	25 kg	100 kg	A	34

Maneb stabilized *or* Maneb preparations, stabilized *against self-heating*.	4.3	UN2968	III	4.3	54, A1, A19, IB8, IP4, T1, TP33	151	213	242	25 kg	100 kg	B	34, 52
Manganese nitrate	5.1	UN2724	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
Manganese resinate	4.1	UN1330	III	4.1	A1, IB6, T1, TP33	151	213	240	25 kg	100 kg	A	
Mannitan tetranitrate	Forbidden											
Mannitol hexanitrate (dry)	Forbidden											
Mannitol hexanitrate, wetted *or* Nitromannite, wetted *with not less than 40 percent water, or mixture of alcohol and water, by mass*.	1.1D	UN0133	II	1.1D	121	None	62	None	Forbidden	Forbidden	10	
Marine pollutants, liquid or solid, n.o.s., see Environmentally hazardous substances, liquid *or* solid, n.o.s..												
Matches, block, see Matches, 'strike anywhere'.												
Matches, fusee	4.1	UN2254	III	4.1		186	186	None	Forbidden	Forbidden	A	
Matches, safety *(book, card or strike on box)*.	4.1	UN1944	III	4.1		186	186	None	25 kg	100 kg	A	
Matches, strike anywhere	4.1	UN1331	III	4.1		186	186	None	Forbidden	Forbidden	B	
Matches, wax, Vesta	4.1	UN1945	III	4.1		186	186	None	25 kg	100 kg	B	
Matting acid, see Sulfuric acid												
Medicine, liquid, flammable, toxic, n.o.s..	3	UN3248	II	3, 6.1	36, IB2	150	202	None	1 L	5 L	B	40
			III	3, 6.1	36, IB3	150	203	None	5 L	5 L	A	
Medicine, liquid, toxic, n.o.s.	6.1	UN1851	II	6.1	36	153	202	243	5 L	5 L	C	40
			III	6.1	36	153	203	241	5 L	5 L	C	40
Medicine, solid, toxic, n.o.s.	6.1	UN3249	II	6.1	36, T3, TP33	153	212	None	5 kg	5 kg	C	40
			III	6.1	36, T1, TP33	153	213	None	5 kg	5 kg	C	40
Memtetrahydrophthalic anhydride, see Corrosive liquids, n.o.s..												
Mercaptans, liquid, flammable, n.o.s. *or* Mercaptan mixture, liquid, flammable, n.o.s..	3	UN3336	I	3	T11, TP2	150	201	243	1 L	30 L	E	95
			II	3	IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	95
			III	3	B1, B52, IB3, T4, TP1, TP29	150	203	241	60 L	220 L	B	95
Mercaptans, liquid, flammable, toxic, n.o.s. *or* Mercaptan mixtures, liquid, flammable, toxic, n.o.s..	3	UN1228	II	3, 6.1	IB2, T11, TP2, TP27	None	202	243	Forbidden	60 L	B	40, 95
			III	3, 6.1	A6, B1, IB3, T7, TP1, TP28	150	203	242	5 L	220 L	A	40, 95

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Mercaptans, liquid, toxic, flammable, n.o.s. *or* Mercaptan mixtures, liquid, toxic, flammable, n.o.s., *flash point not less than 23 degrees C.*	6.1	UN3071	II	6.1, 3	A6, IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	C	40, 121
	5-Mercaptotetrazol-1-acetic acid	1.4C	UN0448	II	1.4C		None	62	None	Forbidden	75 kg	09	
	Mercuric arsenate	6.1	UN1623	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Mercuric chloride	6.1	UN1624	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Mercuric compounds, see Mercury compounds, *etc.*												
	Mercuric nitrate	6.1	UN1625	II	6.1	IB8, IP2, IP4, N73, T3, TP33	153	212	242	25 kg	100 kg	A	
+	Mercuric potassium cyanide	6.1	UN1626	I	6.1	IB7, IP1, N74, N75, T6, TP33	None	211	242	5 kg	50 kg	A	52
	Mercuric sulfocyanate, see Mercury thiocyanate.												
	Mercurol, see Mercury nucleate												
	Mercurous azide	Forbidden											
	Mercurous compounds, see Mercury compounds, *etc.*												
	Mercurous nitrate	6.1	UN1627	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
A W	Mercury	8	UN2809	III	8		164	164	240	35 kg	35 kg	B	40, 97
	Mercury acetate	6.1	UN1629	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Mercury acetylide	Forbidden											
	Mercury ammonium chloride	6.1	UN1630	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Mercury based pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C.*	3	UN2778	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
				II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Mercury based pesticides, liquid, toxic.	6.1	UN3012	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40

	Mercury based pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN3011	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Mercury based pesticides, solid, toxic.	6.1	UN2777	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Mercury benzoate	6.1	UN1631	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Mercury bromides	6.1	UN1634	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Mercury compounds, liquid, n.o.s..	6.1	UN2024	I	6.1		None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3	153	203	241	60 L	220 L	B	40
	Mercury compounds, solid, n.o.s..	6.1	UN2025	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	.....
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
A	Mercury *contained in manufactured articles*.	8	UN2809	III	8		None	164	None	No limit	No limit	B	40, 97
	Mercury cyanide	6.1	UN1636	II	6.1	IB8, IP2, IP4, N74, N75, T3, TP33	153	212	242	25 kg	100 kg	A	52
	Mercury fulminate, wetted *with not less than 20 percent water, or mixture of alcohol and water, by mass*.	1.1A	UN0135	II	1.1A ...	111, 117	None	62	None	Forbidden	Forbidden	12	.....
	Mercury gluconate	6.1	UN1637	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Mercury iodide	6.1	UN1638	II	6.1	IB2, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Mercury iodide aquabasic ammonobasic (Iodide of Millon's base).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Mercury nitride	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Mercury nucleate	6.1	UN1639	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Mercury oleate	6.1	UN1640	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Mercury oxide	6.1	UN1641	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	(8) Packaging (§ 173.***) Non-bulk	(8) Packaging (§ 173.***) Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	(9) Quantity limitations (see §§ 173.27 and 175.75) Cargo aircraft only	(10) Vessel stowage Location	(10) Vessel stowage Other
	Mercury oxycyanide	Forbidden											
	Mercury oxycyanide, desensitized.	6.1	UN1642	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	52, 91
	Mercury potassium iodide	6.1	UN1643	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Mercury salicylate	6.1	UN1644	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
+	Mercury sulfates	6.1	UN1645	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Mercury thiocyanate	6.1	UN1646	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Mesityl oxide	3	UN1229	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
G	Metal carbonyls, liquid, n.o.s.	6.1	UN3281	I	6.1	5, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	40
				III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	40
G	Metal carbonyls, solid, n.o.s.	6.1	UN3466	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	D	40
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	40
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	B	40
	Metal catalyst, dry	4.2	UN2881	I	4.2	N34, T21, TP7, TP33	None	187	None	Forbidden	Forbidden	C	
				II	4.2	IB6, IP2, N34, T3, TP33	None	187	242	Forbidden	50 kg	C	
				III	4.2	IB8, IP3, N34, T1, TP33	None	187	241	25 kg	100 kg	C	
	Metal catalyst, wetted *with a visible excess of liquid*.	4.2	UN1378	II	4.2	A2, A8, IB1, N34, T3, TP33	None	212	None	Forbidden	50 kg	C	
	Metal hydrides, flammable, n.o.s..	4.1	UN3182	II	4.1	A1, IB4, T3, TP33	151	212	240	15 kg	50 kg	E	
				III	4.1	A1, IB4, T1, TP33	151	213	240	25 kg	100 kg	E	
	Metal hydrides, water reactive, n.o.s..	4.3	UN1409	I	4.3	A19, N34, N40	None	211	242	Forbidden	15 kg	D	52
				II	4.3	A19, IB4, N34, N40, T3, TP33	151	212	242	15 kg	50 kg	D	52

	Metal powder, self-heating, n.o.s..	4.2	UN3189	II	4.2	IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	C	.....
	.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	C	.....
	Metal powders, flammable, n.o.s..	4.1	UN3089	II	4.1	IB8, IP2, IP4, T3, TP33	151	212	240	15 kg	50 kg	B	.....
	.....	.....		III	4.1	IB6, T1, TP33	151	213	240	25 kg	100 kg	B	.....
	Metal salts of methyl nitramine (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
G	Metal salts of organic compounds, flammable, n.o.s..	4.1	UN3181	II	4.1	A1, IB8, IP2, IP4, T3, TP33	151	212	240	15 kg	50 kg	B	40
	.....	.....		III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	B	40
	Metaldehyde	4.1	UN1332	III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	.....
G	Metallic substance, water-reactive, n.o.s..	4.3	UN3208	I	4.3	A7, IB4	None	211	242	Forbidden	15 kg	E	40
	.....	.....		II	4.3	A7, IB7, IP2, T3, TP33	151	212	242	15 kg	50 kg	E	40
	.....	.....		III	4.3	A7, IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	E	40
G	Metallic substance, water-reactive, self-heating, n.o.s..	4.3	UN3209	I	4.3, 4.2.	A7	None	211	242	Forbidden	15 kg	E	40
	.....	.....		II	4.3, 4.2.	A7, IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	E	40
	.....	.....		III	4.3, 4.2.	A7, IB8, IP4, T1, TP33	None	213	242	25 kg	100 kg	E	40
	Methacrylaldehyde, stabilized	3	UN2396	II	3, 6.1	45, IB2, T7, TP1, TP13	150	202	243	1 L	60 L	E	40
	Methacrylic acid, stabilized	8	UN2531	II	8	IB2, T7, TP1, TP18, TP30	154	202	242	1 L	30 L	C	40
+	Methacrylonitrile, stabilized	3	UN3079	I	3, 6.1	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	12, 40, 48
	Methallyl alcohol	3	UN2614	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Methane and hydrogen, mixtures, see Hydrogen and methane, mixtures, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Methane, compressed *or* Natural gas, compressed *(with high methane content)*.	2.1	UN1971	.....	2.1		306	302	302	Forbidden	150 kg	E	40
	Methane, refrigerated liquid *(cryogenic liquid) or* Natural gas, refrigerated liquid *(cryogenic liquid), with high methane content)*.	2.1	UN1972	.....	2.1	T75, TP5	None	None	318	Forbidden	Forbidden	D	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Methanesulfonyl chloride	6.1	UN3246	I	6.1, 8	2, B9, B14, B32, B74, T20, TP2, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
+ I	Methanol	3	UN1230	II	3, 6.1	IB2, T7, TP2	150	202	242	1 L	60 L	B	40
D	Methanol	3	UN1230	II	3	IB2, T7, TP2	150	202	242	1 L	60 L	B	40
	Methazoic acid	Forbidden											
	4-Methoxy-4-methylpentan-2-one.	3	UN2293	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	1-Methoxy-2-propanol	3	UN3092	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
+	Methoxymethyl isocyanate	3	UN2605	I	3, 6.1	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
	Methyl acetate	3	UN1231	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Methyl acetylene and propadiene mixtures, stabilized.	2.1	UN1060		2.1	N88, T50	306	304	314, 315.	Forbidden	150 kg	B	40
	Methyl acrylate, stabilized	3	UN1919	II	3	IB2, T4, TP1, TP13	150	202	242	5 L	60 L	B	
	Methyl alcohol, see Methanol												
	Methyl allyl chloride	3	UN2554	II	3	IB2, T4, TP1, TP13	150	202	242	5 L	60 L	E	
	Methyl amyl ketone, see Amyl methyl ketone.												
	Methyl bromide	2.3	UN1062		2.3	3, B14, N86, T50	None	193	314, 315.	Forbidden	Forbidden	D	40
	Methyl bromide and chloropicrin mixtures with more than 2 percent chloropicrin, see Chloropicrin and methyl bromide mixtures.												
	Methyl bromide and chloropicrin mixtures with not more than 2 percent chloropicrin, see Methyl bromide.												
	Methyl bromide and ethylene dibromide mixtures, liquid.	6.1	UN1647	I	6.1	2, B9, B14, B32, B74, N65, T20, TP2, TP13, TP38, TP44	None	227	244	Forbidden	Forbidden	C	40
	Methyl bromoacetate	6.1	UN2643	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	D	40
	2-Methylbutanal	3	UN3371	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	

2-Methyl-1-butene	3	UN2459	I	3	T11, TP2	None	201	243	1 L	30 L	E	
2-Methyl-2-butene	3	UN2460	II	3	IB2, IP8, T7, TP1	None	202	242	5 L	60 L	E	
3-Methyl-1-butene	3	UN2561	I	3	T11, TP2	None	201	243	1 L	30 L	E	
Methyl tert-butyl ether	3	UN2398	II	3	IB2, T7, TP1	150	202	242	5 L	60 L	E	
Methyl butyrate	3	UN1237	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
Methyl chloride or Refrigerant gas R 40.	2.1	UN1063		2.1	N86, T50	306	304	314, 315.	5 kg	100 kg	D	40
Methyl chloride and chloropicrin mixtures, see Chloropicrin and methyl chloride mixtures.												
Methyl chloride and methylene chloride mixtures.	2.1	UN1912		2.1	N86, T50	306	304	314, 315.	Forbidden	150 kg	D	40
Methyl chloroacetate	6.1	UN2295	I	6.1, 3	T14, TP2, TP13	None	201	243	1 L	30 L	D	
Methyl chlorocarbonate, see Methyl chloroformate.												
Methyl chloroform, see 1,1,1-Trichloroethane.												
Methyl chloroformate	6.1	UN1238	I	6.1, 3, 8.	1, B9, B14, B30, B72, N34, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	21, 40, 100
Methyl chloromethyl ether	6.1	UN1239	I	6.1, 3	1, B9, B14, B30, B72, T22, TP2, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
Methyl 2-chloropropionate	3	UN2933	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Methyl dichloroacetate	6.1	UN2299	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
Methyl ethyl ether, see Ethyl methyl ether.												
Methyl ethyl ketone, *see* Ethyl methyl ketone.												
Methyl ethyl ketone peroxide, in solution with more than 9 percent by mass active oxygen.	Forbidden											
2-Methyl-5-ethylpyridine	6.1	UN2300	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
Methyl fluoride, *or* Refrigerant gas R 41.	2.1	UN2454		2.1		306	304	314, 315.	Forbidden	150 kg	E	40
Methyl formate	3	UN1243	I	3	T11, TP2	150	201	243	1 L	30 L	E	
2-Methyl-2-heptanethiol	6.1	UN3023	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40, 102
Methyl iodide	6.1	UN2644	I	6.1	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	A	12, 40
Methyl isobutyl carbinol	3	UN2053	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Methyl isobutyl ketone	3	UN1245	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Methyl isobutyl ketone peroxide, in solution with more than 9 percent by mass active oxygen.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methyl isocyanate	6.1	UN2480	I	6.1, 3	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40, 52
	Methyl isopropenyl ketone, stabilized.	3	UN1246	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Methyl isothiocyanate	6.1	UN2477	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	A	.....
	Methyl isovalerate	3	UN2400	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Methyl magnesium bromide, in ethyl ether.	4.3	UN1928	I	4.3, 3		None	201	243	Forbidden	1 L	D	.....
	Methyl mercaptan	2.3	UN1064	.....	2.3, 2.1.	3, B7, B9, B14, N89, T50	None	304	314, 315.	Forbidden	Forbidden	D	40
	Methyl mercaptopropionaldehyde, see 4-Thiapentanal.	.....			.....		.....	.....	.....	.....	.....		.....
	Methyl methacrylate monomer, stabilized.	3	UN1247	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
	Methyl nitramine (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methyl nitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methyl nitrite	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methyl norbornene dicarboxylic anhydride, see Corrosive liquids, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Methyl orthosilicate	6.1	UN2606	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	E	40
D	Methyl phosphonic dichloride	6.1	NA9206	I	6.1, 8	2, B9, B14, B32, B74, N34, N43, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	C	.....

	Methyl phosphonothioic dichloride, anhydrous, see Corrosive liquid, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
D	Methyl phosphonous dichloride, *pyrophoric liquid*.	6.1	NA2845	I	6.1, 4.2.	2, B9, B14, B16, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	18
	Methyl picric acid (heavy metal salts of).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methyl propionate	3	UN1248	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Methyl propyl ether	3	UN2612	II	3	IB2, IP8, T7, TP2	150	202	242	5 L	60 L	E	40
	Methyl propyl ketone	3	UN1249	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Methyl sulfate, see Dimethyl sulfate.	.....			.....		.....	.....	.....	.....	.....		.....
	Methyl sulfide, see Dimethyl sulfide.	.....			.....		.....	.....	.....	.....	.....		.....
	Methyl trichloroacetate	6.1	UN2533	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	Methyl trimethylol methane trinitrate.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methyl vinyl ketone, stabilized ...	6.1	UN1251	I	6.1, 3, 8.	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	B	40
	Methylal	3	UN1234	II	3	IB2, IP8, T7, TP2	None	202	242	5 L	60 L	E	.....
	Methylamine, anhydrous	2.1	UN1061	.....	2.1	N87, T50	306	304	314, 315.	Forbidden	150 kg	B	40
	Methylamine, aqueous solution	3	UN1235	II	3, 8	B1, IB2, T7, TP1	150	202	243	1 L	5 L	E	52, 135.
	Methylamine dinitramine and dry salts thereof.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methylamine nitroform	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methylamine perchlorate (dry) ...	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Methylamyl acetate	3	UN1233	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	N-Methylaniline	6.1	UN2294	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	alpha-Methylbenzyl alcohol, liquid.	6.1	UN2937	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	alpha-Methylbenzyl alcohol, solid.	6.1	UN3438	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	3-Methylbutan-2-one	3	UN2397	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	N-Methylbutylamine	3	UN2945	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	40
	Methylchlorosilane	2.3	UN2534	.....	2.3, 2.1, 8.	2, B9, B14, N34	None	226	314, 315.	Forbidden	Forbidden	D	17, 40
	Methylcyclohexane	3	UN2296	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Methylcyclohexanols, *flammable*	3	UN2617	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Methylcyclohexanone	3	UN2297	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Methylcyclopentane	3	UN2298	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
D	Methyldichloroarsine	6.1	NA1556	I	6.1	2, T20, TP4, TP12, TP13, TP38, TP45	None	192	None	Forbidden	Forbidden	D	40
	Methyldichlorosilane	4.3	UN1242	I	4.3, 8, 3.	A2, A3, A7, B6, B77, N34, T10, TP2, TP7, TP13	None	201	243	Forbidden	1 L	D	21, 28, 40, 49, 100
	Methylene chloride, see Dichloromethane.												
	Methylene glycol dinitrate	Forbidden											
	2-Methylfuran	3	UN2301	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
	a-Methylglucoside tetranitrate	Forbidden											
	a-Methylglycerol trinitrate	Forbidden											
	5-Methylhexan-2-one	3	UN2302	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Methylhydrazine	6.1	UN1244	I	6.1, 3, 8.	1, B7, B9, B14, B30, B72, B77, N34, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	21, 40,
	4-Methylmorpholine *or* n-methylmorpholine.	3	UN2535	II	3, 8	B6, IB2, T7, TP1	150	202	243	1 L	5 L	B	40
	Methylpentadienes	3	UN2461	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	E	
	2-Methylpentan-2-ol	3	UN2560	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Methylpentanes, see Hexanes												
	Methylphenyldichlorosilane	8	UN2437	II	8	IB2, T7, TP2, TP13	None	202	242	1 L	30 L	C	40.
	1-Methylpiperidine	3	UN2399	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	52.
	Methyltetrahydrofuran	3	UN2536	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Methyltrichlorosilane	3	UN1250	I	3, 8	A7, B6, B77, N34, T11, TP2, TP13	None	201	243	Forbidden	2.5 L	B	40
	alpha-Methylvaleraldehyde	3	UN2367	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Mine rescue equipment containing carbon dioxide, see Carbon dioxide.												
	Mines *with bursting charge*	1.1F	UN0136	II	1.1F			62	None	Forbidden	Forbidden	08	
	Mines *with bursting charge*	1.1D	UN0137	II	1.1D			62	None	Forbidden	Forbidden	03	
	Mines *with bursting charge*	1.2D	UN0138	II	1.2D			62	None	Forbidden	Forbidden	03	
	Mines *with bursting charge*	1.2F	UN0294	II	1.2F			62	None	Forbidden	Forbidden	08	
	Mixed acid, see Nitrating acid, mixtures *etc.*												

	Mobility aids, see Battery powered equipment *or* Battery powered vehicle'.	.....			.....		.....	.....	.....	.....	.....		.....
D	Model rocket motor	1.4C	NA0276	II	1.4C ..	51	None	62	None	Forbidden	75 kg	06	.....
D	Model rocket motor	1.4S	NA0323	II	1.4S ...	51	None	62	None	25 kg	100 kg	05	.....
	Molybdenum pentachloride	8	UN2508	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	C	40
	Monochloroacetone (unstabilized).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Monochloroethylene, see Vinyl chloride, stabilized.	.....			.....		.....	.....	.....	.....	.....		.....
	Monoethanolamine, see Ethanolamine, solutions.	.....			.....		.....	.....	.....	.....	.....		.....
	Monoethylamine, see Ethylamine.	.....			.....		.....	.....	.....	.....	.....		.....
	Morpholine	8	UN2054	I	8, 3	A6, T10, TP2	None	201	243	0.5 L	2.5 L	A	.....
	Morpholine, aqueous, mixture, see Corrosive liquids, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Motor fuel anti-knock compounds *see* Motor fuel anti-knock mixtures.	.....			.....		.....	.....	.....	.....	.....		.....
+	Motor fuel anti-knock mixtures	6.1	UN1649	I	6.1	14, 151, B9, B90, T14, TP2, TP13	None	201	244	Forbidden	30 L	D	25, 40.
	Motor spirit, *see* Gasoline	.....			.....		.....	.....	.....	.....	.....		.....
	Muriatic acid, see Hydrochloric acid.	.....			.....		.....	.....	.....	.....	.....		.....
	Musk xylene, *see* 5-tert-Butyl-2,4,6-trinitro-m-xylene.	.....			.....		.....	.....	.....	.....	.....		.....
	Naphtha see Petroleum distillates n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Naphthalene, crude *or* Naphthalene, refined.	4.1	UN1334	III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	.....
	Naphthalene diozonide	Forbidden			.....		.....	.....	.....	.....	.....		.....
	beta-Naphthylamine, solid	6.1	UN1650	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	beta-Naphthylamine solution	6.1	UN3411	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
	.....	.....		III	6.1	IB2, T7, TP2	153	203	241	60 L	220 L	A	.....
	alpha-Naphthylamine	6.1	UN2077	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Naphthalene, molten	4.1	UN2304	III	4.1	IB1, T1, TP3	151	213	241	Forbidden	Forbidden	C	.....
	Naphthylamineperchlorate	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Naphthylthiourea	6.1	UN1651	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Naphthylurea	6.1	UN1652	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Natural gases (with high methane content), see Methane, etc. (UN 1971, UN 1972).	.....			.....		.....	.....	.....	.....	.....		.....
	Neohexane, see Hexanes	.....			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Neon, compressed	2.2	UN1065		2.2		306	302	302	75 kg	150 kg	A	
	Neon, refrigerated liquid *(cryogenic liquid)*.	2.2	UN1913		2.2	T75, TP5	320	316	None	50 kg	500 kg	B	
	New explosive or explosive device, see §§ 173.51 and 173.56.												
	Nickel carbonyl	6.1	UN1259	I	6.1, 3	1	None	198	None	Forbidden	Forbidden	D	18, 40
	Nickel cyanide	6.1	UN1653	II	6.1	IB8, IP2, IP4, N74, N75, T3, TP33	153	212	242	25 kg	100 kg	A	52
	Nickel nitrate	5.1	UN2725	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Nickel nitrite	5.1	UN2726	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
	Nickel picrate	Forbidden											
	Nicotine	6.1	UN1654	II	6.1	IB2	153	202	243	5 L	60 L	A	
	Nicotine compounds, liquid, n.o.s. *or* Nicotine preparations, liquid, n.o.s..	6.1	UN3144	I	6.1	A4	None	201	243	1 L	30 L	B	40
				II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	40
				III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	B	40
	Nicotine compounds, solid, n.o.s. *or* Nicotine preparations, solid, n.o.s..	6.1	UN1655	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Nicotine hydrochloride liquid *or* solution.	6.1	UN1656	II	6.1	IB2	153	202	243	5 L	60 L	A	
				III	6.1	IB3	153	203	241	60 L	220 L	A	
	Nicotine hydrochloride, solid	6.1	UN3444	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Nicotine salicylate	6.1	UN1657	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Nicotine sulfate solution	6.1	UN1658	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	
				III	6.1	IB3, T7, TP2	153	203	241	60 L	220 L	A	
	Nicotine sulphate, solid	6.1	UN3445	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	

	Nicotine tartrate	6.1	UN1659	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Nitrated paper (unstable)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Nitrates, inorganic, aqueous solution, n.o.s..	5.1	UN3218	II	5.1	58, IB2, T4, TP1	152	202	242	1 L	5 L	B	56, 58, 133
	.....	.....		III	5.1	58, IB2, T4, TP1	152	203	241	2.5 L	30 L	B	56, 58, 133
	Nitrates, inorganic, n.o.s.	5.1	UN1477	II	5.1	IB8, IP2, IP4, T3, TP33	152	212	240	5 kg	25 kg	A	56, 58
	.....	.....		III	5.1	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
	Nitrates of diazonium compounds.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Nitrating acid mixtures, spent *with more than 50 percent nitric acid*.	8	UN1826	I	8, 5.1	A7, T10, TP2, TP12, TP13	None	158	243	Forbidden	2.5 L	D	40, 66
	Nitrating acid mixtures spent *with not more than 50 percent nitric acid*.	8	UN1826	II	8	A7, B2, IB2, T8, TP2, TP12	None	158	242	Forbidden	30 L	D	40
	Nitrating acid mixtures *with more than 50 percent nitric acid*.	8	UN1796	I	8, 5.1	A7, T10, TP2, TP12, TP13	None	158	243	Forbidden	2.5 L	D	40, 66
	Nitrating acid mixtures *with not more than 50 percent nitric acid*.	8	UN1796	II	8	A7, B2, IB2, T8, TP2, TP12, TP13	None	158	242	Forbidden	30 L	D	40
	Nitric acid *other than red fuming, with more than 70 percent nitric acid*.	8	UN2031	I	8, 5.1	A3, B47, B53, T10, TP2, TP12, TP13	None	158	243	Forbidden	2.5 L	D	44, 66, 89, 90, 110, 111
	Nitric acid *other than red fuming with not more than 20 percent nitric acid*.	8	UN2031	II	8	A6, B2, B47, B53, IB2, T8, TP2, TP12	None	158	242	1 L	30 L	D	
	Nitric acid *other than red fuming, with not more than 70 percent nitric acid*.	8	UN2031	II	8	A6, B2, B47, B53, IB2, T8, TP2, TP12	None	158	242	Forbidden	30 L	D	44, 66, 89, 90, 110, 111
+	Nitric acid, red fuming	8	UN2032	I	8, 5.1, 6.1.	2, B9, B32, B74, T20, TP2, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40, 66, 74, 89, 90
	Nitric oxide, compressed	2.3	UN1660	.....	2.3, 5.1, 8.	1, B37, B46, B50, B60, B77	None	337	None	Forbidden	Forbidden	D	40, 89, 90
	Nitric oxide and dinitrogen tetroxide mixtures *or* Nitric oxide and nitrogen dioxide mixtures.	2.3	UN1975	.....	2.3, 5.1, 8.	1, B7, B9, B14, B45, B46, B61, B66, B67, B77	None	337	None	Forbidden	Forbidden	D	40, 89, 90
G	Nitriles, flammable, toxic, n.o.s.	3	UN3273	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	E	40, 52
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40, 52

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
G	Nitriles, toxic, flammable, n.o.s.	6.1	UN3275	I	6.1, 3	5, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40, 52
				II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40, 52
G	Nitriles, toxic, liquid, n.o.s.	6.1	UN3276	I	6.1	5, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	52
				II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	52
				III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	52
G	Nitriles, toxic, solid, n.o.s.	6.1	UN3439	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	D	52
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	52
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
	Nitrites, inorganic, aqueous solution, n.o.s..	5.1	UN3219	II	5.1	IB1, T4, TP1	152	202	242	1 L	5 L	B	46, 56, 58, 133
				III	5.1	IB2, T4, TP1	152	203	241	2.5 L	30 L	B	46, 56, 58, 133
	Nitrites, inorganic, n.o.s.	5.1	UN2627	II	5.1	33, IB8, IP4, T3, TP33	152	212	None	5 kg	25 kg	A	46, 56, 58, 133
	3-Nitro-4-chlorobenzotrifluoride	6.1	UN2307	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40
	6-Nitro-4-diazotoluene-3-sulfonic acid (dry).	Forbidden											
	Nitro isobutane triol trinitrate	Forbidden											
	N-Nitro-N-methylglycolamide nitrate.	Forbidden											
	2-Nitro-2-methylpropanol nitrate	Forbidden											
	Nitro urea	1.1D	UN0147	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	N-Nitroaniline	Forbidden											
+	Nitroanilines (*o-; m-; p-;*)	6.1	UN1661	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Nitroanisole, liquid	6.1	UN2730	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
	Nitroanisoles, solid	6.1	UN3458	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
+	Nitrobenzene	6.1	UN1662	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40
	m-Nitrobenzene diazonium perchlorate.	Forbidden											
	Nitrobenzenesulfonic acid	8	UN2305	II	8	B2, B4, IB8, IP2, IP4, T3, TP33	154	202	242	1 L	30 L	A	

Nitrobenzol, see Nitrobenzene	.....			.....		.....	.....	.....	.....	.....		.....
5-Nitrobenzotriazol	1.1D	UN0385	II	1.1D		None	62	None	Forbidden	Forbidden	10	.....
Nitrobenzotrifluorides, liquid	6.1	UN2306	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40
Nitrobenzotrifluorides, solid	6.1	UN3431	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
Nitrobromobenzenes, liquid	6.1	UN2732	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
Nitrobromobenzenes, solid	6.1	UN3459	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
Nitrocellulose, *dry or wetted with less than 25 percent water (or alcohol), by mass*.	1.1D	UN0340	II	1.1D		None	62	None	Forbidden	Forbidden	13	27E
Nitrocellulose, *with not more than 12.6 percent, by dry mass* mixture with *or* without plasticizer, with *or* without pigment.	4.1	UN2557	II	4.1	44	151	212	None	1 kg	15 kg	D	28
Nitrocellulose membrane filters, *with not more than 12.6% nitrogen, by dry mass*.	4.1	UN3270	II	4.1	43, A1	151	212	240	1 kg	15 kg	D	.....
Nitrocellulose, plasticized *with not less than 18 percent plasticizing substance, by mass*.	1.3C	UN0343	II	1.3C		None	62	None	Forbidden	Forbidden	10	.....
Nitrocellulose, solution, flammable *with not more than 12.6 percent nitrogen, by mass, and not more than 55 percent nitrocellulose*.	3	UN2059	I	3	T11, TP1, TP8, TP27	None	201	243	1 L	30 L	E	.....
.....	.....		II	3	IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Nitrocellulose, *unmodified or plasticized with less than 18 percent plasticizing substance, by mass*.	1.1D	UN0341	II	1.1D		None	62	None	Forbidden	Forbidden	13	27E
Nitrocellulose, wetted *with not less than 25 percent alcohol, by mass*.	1.3C	UN0342	II	1.3C		None	62	None	Forbidden	Forbidden	10	.....
Nitrocellulose with alcohol *with not less than 25 percent alcohol by mass, and with not more than 12.6 percent nitrogen, by dry mass*.	4.1	UN2556	II	4.1		151	212	None	1 kg	15 kg	D	28
Nitrocellulose with water *with not less than 25 percent water, by mass*.	4.1	UN2555	II	4.1		151	212	None	15 kg	50 kg	E	28
Nitrochlorobenzene, see Chloronitrobenzenes *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
Nitrocresols, liquid	6.1	UN3434	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
Nitrocresols, solid	6.1	UN2446	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Nitroethane	3	UN2842	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Nitroethyl nitrate	Forbidden											
	Nitroethylene polymer	Forbidden											
	Nitrogen, compressed	2.2	UN1066		2.2		306, 307.	302	314, 315.	75 kg	150 kg	A	
	Nitrogen dioxide, *see* Dinitrogen tetroxide.												
	Nitrogen fertilizer solution, see Fertilizer ammoniating solution *etc*.												
	Nitrogen peroxide, see Dinitrogen tetroxide.												
	Nitrogen, refrigerated liquid *cryogenic liquid*.	2.2	UN1977		2.2	T75, TP5	320	316	318	50 kg	500 kg	D	
	Nitrogen tetroxide and nitric oxide mixtures, see Nitric oxide and nitrogen tetroxide mixtures.												
	Nitrogen tetroxide, see Dinitrogen tetroxide.												
	Nitrogen trichloride	Forbidden											
	Nitrogen trifluoride	2.2	UN2451		2.2, 5.1.		None	302	None	75 kg	150 kg	D	40
	Nitrogen triiodide	Forbidden											
	Nitrogen triiodide monoamine	Forbidden											
	Nitrogen trioxide	2.3	UN2421		2.3, 5.1, 8.	1	None	336	245	Forbidden	Forbidden	D	40, 89, 90
	Nitroglycerin, desensitized *with not less than 40 percent non-volatile water insoluble phlegmatizer, by mass*.	1.1D	UN0143	II	1.1D, 6.1.	125	None	62	None	Forbidden	Forbidden	13	21E
	Nitroglycerin, liquid, not desensitized.	Forbidden											
	Nitroglycerin mixture, desensitized, liquid, flammable, n.o.s. *with not more than 30 percent nitroglycerin, by mass*.	3	UN3343		3	129	None	214	None	Forbidden	Forbidden	D	

	Nitroglycerin mixture, desensitized, liquid, n.o.s. *with not more than 30% nitroglycerin, by mass*.	3	UN3357	II	3	142	None	202	243	5 L	60 L	E	
	Nitroglycerin mixture, desensitized, solid, n.o.s. *with more than 2 percent but not more than 10 percent nitroglycerin, by mass*.	4.1	UN3319	II	4.1	118	None	None	None	Forbidden	0.5 kg	E	
	Nitroglycerin, solution in alcohol, *with more than 1 percent but not more than 5 percent nitroglycerin*.	3	UN3064	II	3	N8	None	202	None	Forbidden	5 L	E	
	Nitroglycerin, solution in alcohol, *with more than 1 percent but not more than 10 percent nitrogylcerin*.	1.1D	UN0144	II	1.1D		None	62	None	Forbidden	Forbidden	10	21E
	Nitroglycerin solution in alcohol *with not more than 1 percent nitroglycerin*.	3	UN1204	II	3	IB2, N34	150	202	None	5 L	60 L	B	
	Nitroguanidine nitrate	Forbidden											
	Nitroguanidine *or* Picrite, *dry or wetted with less than 20 percent water, by mass*.	1.1D	UN0282	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Nitroguanidine, wetted *or* Picrite, wetted *with not less than 20 percent water, by mass*.	4.1	UN1336	I	4.1	23, A8, A19, A20, N41	None	211	None	1 kg	15 kg	E	28
	1-Nitrohydantoin	Forbidden											
	Nitrohydrochloric acid	8	UN1798	I	8	A3, B10, N41, T10, TP2, TP12, TP13	None	201	243	Forbidden	2.5 L	D	40, 66, 74, 89, 90
	Nitromannite (dry)	Forbidden											
	Nitromannite, wetted, *see* Mannitol hexanitrate, *etc*.												
	Nitromethane	3	UN1261	II	3		150	202	None	Forbidden	60 L	A	
	Nitromuriatic acid, see Nitrohydrochloric acid.												
	Nitronaphthalene	4.1	UN2538	III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	
+	Nitrophenols (*o-; m-; p-;*)	6.1	UN1663	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	m-Nitrophenyldinitro methane	Forbidden											
	4-Nitrophenylhydrazine, *with not less than 30 percent water, by mass*.	4.1	UN3376	I	4.1	162, A8, A19, A20, N41	None	211	None	Forbidden	15 kg	E	36
	Nitropropanes	3	UN2608	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	p-Nitrosodimethylaniline	4.2	UN1369	II	4.2	A19, A20, IB6, IP2, N34, T3, TP33	None	212	241	15 kg	50 kg	D	34

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Nitrostarch, *dry or wetted with less than 20 percent water, by mass*.	1.1D	UN0146	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Nitrostarch, wetted *with not less than 20 percent water, by mass*.	4.1	UN1337	I	4.1	23, A8, A19, A20, N41	None	211	None	1 kg	15 kg	D	28
	Nitrosugars (dry)	Forbidden											
	Nitrosyl chloride	2.3	UN1069		2.3, 8	3, B14	None	304	314, 315.	Forbidden	Forbidden	D	40
	Nitrosylsulfuric acid, liquid	8	UN2308	II	8	A3, A6, A7, B2, IB2, N34, T8, TP2, TP12	154	202	242	1 L	30 L	D	40, 66, 74, 89, 90
	Nitrosylsulphuric acid, solid	8	UN3456	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	D	40, 66, 74, 89, 90
	Nitrotoluenes, liquid	6.1	UN1664	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	Nitrotoluenes, solid	6.1	UN3446	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Nitrotoluidines (mono)	6.1	UN2660	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Nitrotriazolone *or* NTO	1.1D	UN0490	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Nitrous oxide and carbon dioxide mixtures, see Carbon dioxide and nitrous oxide mixtures.												
	Nitrous oxide	2.2	UN1070		2.2, 5.1.	A14	306	304	314, 315.	75 kg	150 kg	A	40
	Nitrous oxide, refrigerated liquid	2.2	UN2201		2.2, 5.1.	B6, T75, TP5, TP22	None	304	314, 315.	Forbidden	Forbidden	B	40
	Nitroxylenes, liquid	6.1	UN1665	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	Nitroxylenes, solid	6.1	UN3447	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Nitroxylol, see Nitroxylenes												
	Nonanes	3	UN1920	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Non-flammable gas, n.o.s., see Compressed gas, etc. or Liquefied gas, *etc*.												
	Nonliquefied gases, see Compressed gases, *etc*.												

	Nonliquefied hydrocarbon gas, see Hydrocarbon gas mixture, compressed, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Nonyltrichlorosilane	8	UN1799	II	8	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	Nordhausen acid, see Sulfuric acid, fuming *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	2,5-Norbornadiene, stabilized, see Bicyclo 2,2,1 hepta-2,5-diene, stabilized.	.....			.....		.....	.....	.....	.....	.....		.....
	Octadecyltrichlorosilane	8	UN1800	II	8	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	Octadiene	3	UN2309	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	1,7-Octadine-3,5-diyne-1,8-dimethoxy-9-octadecynoic acid.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Octafluorobut-2-ene *or* Refrigerant gas R 1318.	2.2	UN2422	.....	2.2		None	304	314, 315.	75 kg	150 kg	A	.....
	Octafluorocyclobutane, *or* Refrigerant gas RC 318.	2.2	UN1976	.....	2.2	T50	None	304	314, 315.	75 kg	150 kg	A	.....
	Octafluoropropane*or* Refrigerant gas R 218.	2.2	UN2424	.....	2.2	T50	None	304	314, 315.	75 kg	150 kg	A	.....
	Octanes	3	UN1262	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Octogen, etc. *see* Cyclotetramethylene tetranitramine, etc..	.....			.....		.....	.....	.....	.....	.....		.....
	Octolite *or* Octol, *dry or wetted with less than 15 percent water, by mass*.	1.1D	UN0266	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	Octonal	1.1D	UN0496	.....	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	Octyl aldehydes	3	UN1191	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Octyltrichlorosilane	8	UN1801	II	8	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	242	Forbidden	30 L	C	40
	Oil gas, compressed	2.3	UN1071	.....	2.3, 2.1.	6	None	304	314, 315.	Forbidden	25 kg	D	40
	Oleum, see Sulfuric acid, fuming	.....			.....		.....	.....	.....	.....	.....		.....
	Organic peroxide type A, liquid or solid.	Forbidden			.....		.....	.....	.....	.....	.....		.....
G	Organic peroxide type B, liquid	5.2	UN3101	II	5.2, 1	53	152	225	None	Forbidden	Forbidden	D	12, 40, 52, 53
G	Organic peroxide type B, liquid, temperature controlled.	5.2	UN3111	II	5.2, 1	53	None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type B, solid ..	5.2	UN3102	II	5.2, 1	53	152	225	None	Forbidden	Forbidden	D	12, 40, 52, 53
G	Organic peroxide type B, solid, temperature controlled.	5.2	UN3112	II	5.2, 1	53	None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
G	Organic peroxide type C, liquid	5.2	UN3103	II	5.2		152	225	None	5 L	10 L	D	12, 40, 52, 53
G	Organic peroxide type C, liquid, temperature controlled.	5.2	UN3113	II	5.2		None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type C, solid	5.2	UN3104	II	5.2		152	225	None	5 kg	10 kg	D	12, 40, 52, 53
G	Organic peroxide type C, solid, temperature controlled.	5.2	UN3114	II	5.2		None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type D, liquid	5.2	UN3105	II	5.2		152	225	None	5 L	10 L	D	12, 40, 52, 53
G	Organic peroxide type D, liquid, temperature controlled.	5.2	UN3115	II	5.2		None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type D, solid	5.2	UN3106	II	5.2		152	225	None	5 kg	10 kg	D	12, 40, 52, 53
G	Organic peroxide type D, solid, temperature controlled.	5.2	UN3116	II	5.2		None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type E, liquid	5.2	UN3107	II	5.2		152	225	None	10 L	25 L	D	12, 40, 52, 53
G	Organic peroxide type E, liquid, temperature controlled.	5.2	UN3117	II	5.2		None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type E, solid	5.2	UN3108	II	5.2		152	225	None	10 kg	25 kg	D	12, 40, 52, 53
G	Organic peroxide type E, solid, temperature controlled.	5.2	UN3118	II	5.2		None	225	None	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type F, liquid	5.2	UN3109	II	5.2	IP5	152	225	225	10 L	25 L	D	12, 40, 52, 53
G	Organic peroxide type F, liquid, temperature controlled.	5.2	UN3119	II	5.2	IP5	None	225	225	Forbidden	Forbidden	D	2, 40, 52, 53
G	Organic peroxide type F, solid	5.2	UN3110	II	5.2	TP33	152	225	225	10 kg	25 kg	D	12, 40, 52, 53
G	Organic peroxide type F, solid, temperature controlled.	5.2	UN3120	II	5.2	TP33	None	225	225	Forbidden	Forbidden	D	2, 52, 53
D	Organic phosphate, mixed with compressed gas *or* Organic phosphate compound, mixed with compressed gas *or* Organic phosphorus compound, mixed with compressed gas.	2.3	NA1955		2.3	3	None	334	None	Forbidden	Forbidden	D	40
	Organic pigments, self-heating	4.2	UN3313	II	4.2	IB8, IP2, IP4, T3, TP33	None	212	241	15 kg	50 kg	C	

	.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	C	.....
G	Organoarsenic compound, liquid, n.o.s..	6.1	UN3280	I	6.1	5, T14, TP2, TP13, TP27	None	201	242	1 L	30 L	B	
				II	6.1	IB2, T11, TP2, TP27	153	202	242	5 L	60 L	B	
				III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	
G	Organoarsenic compound, solid, n.o.s..	6.1	UN3465	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	.....
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	.....
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Organochlorine pesticides liquid, flammable, toxic, *flash point less than 23 degrees C*.	3	UN2762	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Organochlorine pesticides, liquid, toxic.	6.1	UN2996	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Organochlorine pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN2995	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	B1, IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Organochlorine pesticides, solid, toxic.	6.1	UN2761	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
G	Organometallic compound, toxic, liquid, n.o.s..	6.1	UN3282	I	6.1	T14, TP2, TP13, TP27	None	201	242	1 L	30 L	B	.....
	.....	.....		II	6.1	IB2, T11, TP2, TP27	153	202	242	5 L	60 L	B	.....
	.....	.....		III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	
G	Organometallic compound, toxic, solid, n.o.s..	6.1	UN3467	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	.....
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
G	Organometallic substance, liquid, pyrophoric.	4.2	UN3392	I	4.2	B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	143
G	Organometallic substance, liquid, pyrophoric, water-reactive.	4.2	UN3394	I	4.2, 4.3.	B11, T21, TP2, TP7	None	181	244	Forbidden	Forbidden	D	.....
G	Organometallic substance, liquid, water-reactive.	4.3	UN3398	I	4.3	T13, TP2, TP7	None	201	244	Forbidden	1 L	E	40, 52
				II	4.3	IB1, T7, TP2, TP7	None	202	243	1 L	5 L	E	40, 52
				III	4.3	IB2, T7, TP2, TP7	None	203	242	5 L	60 L	E	40, 52
G	Organometallic substance, liquid, water-reactive, flammable.	4.3	UN3399	I	4.3, 3	T13, TP2, TP7	None	201	244	Forbidden	1 L	E	40, 52
				II	4.3, 3	IB1, IP2, T7, TP2, TP7	None	202	243	1 L	5 L	E	40, 52
				III	4.3, 3	IB2, IP4, T7, TP2, TP7	None	203	242	5 L	60 L	E	40, 52
G	Organometallic substance, solid, pyrophoric.	4.2	UN3391	I	4.2	T21, TP7, TP33	None	187	244	Forbidden	Forbidden	D	
G	Organometallic substance, solid, pyrophoric, water-reactive.	4.2	UN3393	I	4.2, 4.3.	B11, T21, TP7, TP33	None	187	244	Forbidden	Forbidden	D	52.
G	Organometallic substance, solid, self-heating.	4.2	UN3400	II	4.2	IB6, T3, TP33	None	212	242	15 kg	50 kg	C	.....
	.....	.....		III	4.2	IB8, T1, TP33	None	203	242	25 kg	100 kg	C	.....
G	Organometallic substance, solid, water-reactive, flammable.	4.3	UN3396	I	4.3, 4.1.	N40, T9, TP7, TP33	None	211	242	Forbidden	Forbidden	E	40, 52
	.....	.....		II	4.3, 4.1.	IB4, T3, TP33	151	212	242	15 kg	50 kg	E	40, 52
	.....	.....		III	4.3, 4.1.	IB6, T1, TP33	151	213	241	25 kg	100 kg	E	40, 52
G	Organometallic substance, solid, water-reactive, self-heating.	4.3	UN3397	I	4.3, 4.2.	N40, T9, TP7, TP33	None	211	242	Forbidden	Forbidden	E	40, 52
	.....	.....		II	4.3, 4.2.	IB4, T3, TP33	None	212	242	15 kg	50 kg	E	40, 52
	.....	.....		III	4.3, 4.2.	IB6, T1, TP33	None	213	241	25 kg	100 kg	E	40, 52
	Organophosphorus compound, toxic, flammable, n.o.s..	6.1	UN3279	I	6.1, 3	5, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40

G	Organophosphorus compound, toxic, liquid, n.o.s..	6.1	UN3278	I	6.1	5, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	.....
	.....	.....		II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	.....
	.....	.....		III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	.....
G	Organophosphorus compound, toxic, solid, n.o.s..	6.1	UN3464	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	.....
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	.....
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Organophosphorus pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C.*	3	UN2784	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Organophosphorus pesticides, liquid, toxic.	6.1	UN3018	I	6.1	N76, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, N76, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, N76, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Organophosphorus pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C.*	6.1	UN3017	I	6.1, 3	N76, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, N76, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	B1, IB3, N76, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Organophosphorus pesticides, solid, toxic.	6.1	UN2783	I	6.1	IB7, IP1, N77, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, N77, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, N77, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Organotin compounds, liquid, n.o.s..	6.1	UN2788	I	6.1	A3, N33, N34, T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	A3, IB2, N33, N34, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	A	40
	.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Organotin compounds, solid, n.o.s..	6.1	UN3146	I	6.1	A5, IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Organotin pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C.*	3	UN2787	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Organotin pesticides, liquid, toxic.	6.1	UN3020	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Organotin pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C.*	6.1	UN3019	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	B1, IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Organotin pesticides, solid, toxic	6.1	UN2786	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Orthonitroaniline, see Nitroanilines *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
	Osmium tetroxide	6.1	UN2471	I	6.1	A8, IB7, IP1, N33, N34, T6, TP33	None	211	242	5 kg	50 kg	B	40
D G	Other regulated substances, liquid, n.o.s..	9	NA3082	III	9	IB3, T2, TP1	155	203	241	No limit	No limit	A	.....
D G	Other regulated substances, solid, n.o.s..	9	NA3077	III	9	B54, IB8, IP2, T1, TP33	155	213	240	No limit	No limit	A	.....
G	Oxidizing liquid, corrosive, n.o.s.	5.1	UN3098	I	5.1, 8	A6	None	201	244	Forbidden	2.5 L	D	13, 56, 58, 106, 138

	.....	.....		II	5.1, 8	IB1	None	202	243	1 L	5 L	B	34, 56, 58, 106, 138
	.....	.....		III	5.1, 8	IB2	152	203	242	2.5 L	30 L	B	34, 56, 58, 106, 138
G	Oxidizing liquid, n.o.s.	5.1	UN3139	I	5.1	127, A2, A6	None	201	243	Forbidden	2.5 L	D	56, 58, 106, 138
	.....	.....		II	5.1	127, A2, IB2	152	202	242	1 L	5 L	B	56, 58, 106, 138
	.....	.....		III	5.1	127, A2, IB2	152	203	241	2.5 L	30 L	B	56, 58, 106, 138
G	Oxidizing liquid, toxic, n.o.s.	5.1	UN3099	I	5.1, 6.1.	A6	None	201	244	Forbidden	2.5 L	D	56, 58, 106, 138
	.....	.....		II	5.1, 6.1.	IB1	152	202	243	1 L	5 L	B	56, 58, 95, 106, 138
	.....	.....		III	5.1, 6.1.	IB2	152	203	242	2.5 L	30 L	B	56, 58, 95, 106, 138
G	Oxidizing solid, corrosive, n.o.s.	5.1	UN3085	I	5.1, 8		None	211	242	1 kg	15 kg	D	13, 56, 58, 106, 138
	.....	.....		II	5.1, 8	IB6, IP2, T3, TP33	None	212	242	5 kg	25 kg	B	13, 34, 56, 58, 106, 138
	.....	.....		III	5.1, 8	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	B	13, 34, 56, 58, 106, 138
G	Oxidizing solid, flammable, n.o.s..	5.1	UN3137	I	5.1, 4.1.		None	214	214	Forbidden	Forbidden		.....
G	Oxidizing solid, n.o.s.	5.1	UN1479	I	5.1	IB5, IP1	None	211	242	1 kg	15 kg	D	56, 58, 106, 138
	.....	.....		II	5.1	IB8, IP2, IP4, T3, TP33	152	212	240	5 kg	25 kg	B	56, 58, 106, 138

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	.....	.....		III	5.1	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	B	56, 58, 106, 138
G	Oxidizing solid, self-heating, n.o.s..	5.1	UN3100	I	5.1, 4.2.		None	214	214	Forbidden	Forbidden		.....
	.....	.....		II	5.1, 4.2.		None	214	214	Forbidden	Forbidden		.....
G	Oxidizing solid, toxic, n.o.s.	5.1	UN3087	I	5.1, 6.1.		None	211	242	1 kg	15 kg	D	56, 58, 106, 138
	.....	.....		II	5.1, 6.1.	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	B	56, 58, 95, 106, 138
	.....	.....		III	5.1, 6.1.	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	B	56, 58, 95, 106, 138
G	Oxidizing solid, water-reactive, n.o.s..	5.1	UN3121	.....	5.1, 4.3.		None	214	214	Forbidden	Forbidden		.....
	Oxygen and carbon dioxide mixtures, see Carbon dioxide and oxygen mixtures.	.....			.....		.....	.....	.....	.....	.....		.....
	Oxygen, compressed	2.2	UN1072	.....	2.2, 5.1.	A14, A52	306	302	314, 315.	75 kg	150 kg	A	.....
	Oxygen difluoride, compressed	2.3	UN2190	.....	2.3, 5.1, 8.	1, N86	None	304	None	Forbidden	Forbidden	D	13, 40, 89, 90
	Oxygen generator, chemical *(including when contained in associated equipment, e.g., passenger service units (PSUs), portable breathing equipment (PBE), etc)*..	5.1	UN3356	II	5.1	60, A51	None	212	None	Forbidden	25 kg gross	D	56, 58, 69, 106
+	Oxygen generator, chemical, spent.	9	NA3356	III	9	61	None	213	None	Forbidden	Forbidden	A	.....
	Oxygen, mixtures with rare gases, see Rare gases and oxygen mixtures.	.....			.....		.....	.....	.....	.....	.....		.....
	Oxygen, refrigerated liquid *(cryogenic liquid)*.	2.2	UN1073	.....	2.2, 5.1.	T75, TP5, TP22	320	316	318	Forbidden	Forbidden	D	.....

	Paint *including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base*.	3	UN1263	I	3	T11, TP1, TP8, TP27	150	201	243	1 L	30 L	E	
				II	3	149, B52, IB2, T4, TP1, TP8, TP28	150	173	242	5 L	60 L	B	
				III	3	B1, B52, IB3, T2, TP1, TP29	150	173	242	60 L	220 L	A	
	Paint *or* Paint related material	8	UN3066	II	8	B2, IB2, T7, TP2, TP28	154	173	242	1 L	30 L	A	
				III	8	B52, IB3, T4, TP1, TP29	154	173	241	5 L	60 L	A	
	Paint related material *including paint thinning, drying, removing, or reducing compound*.	3	UN1263	I	3	T11, TP1, TP8, TP27	150	201	243	1 L	30 L	E	
				II	3	149, B52, IB2, T4, TP1, TP8, TP28	150	173	242	5 L	60 L	B	
				III	3	B1, B52, IB3, T2, TP1, TP29	150	173	242	60 L	220 L	A	
	Paint, corrosive, flammable *(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)*.	8	UN3470	II	8, 3	IB2, T7, TP2, TP8, TP28	154	202	243	1 L	30 L	B	40.
	Paint related material corrosive, flammable *(including paint thinning or reducing compound)*.	8	UN3470	II	8, 3	IB2, T7, TP2, TP8, TP28	154	202	243	1 L	30 L	B	40.
	Paint, flammable, corrosive *(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)*.	3	UN3469	I	3, 8	T11, TP2, TP27	None	201	243	0.5 L	2.5 L	E	40.
				II	3, 8	IB2, T7, TP2, TP8, TP28	150	202	243	1 L	5 L	B	40.
				III	3, 8	IB3, T4, TP1, TP29	150	203	242	5 L	60 L	A	40.
	Paper, unsaturated oil treated *incompletely dried (including carbon paper)*.	4.2	UN1379	III	4.2	IB8, IP3	None	213	241	Forbidden	Forbidden	A	.....
	Paraformaldehyde	4.1	UN2213	III	4.1	A1, IB8, IP3, T1, TP33	151	213	240	25 kg	100 kg	A	.....
	Paraldehyde	3	UN1264	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Paranitroaniline, solid, see Nitroanilines *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
D	Parathion and compressed gas mixture.	2.3	NA1967	.....	2.3	3	None	334	245	Forbidden	Forbidden	E	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Paris green, solid, see Copper acetoarsenite.												
A W	PCB, *see* Polychlorinated biphenyls.												
+	Pentaborane	4.2	UN1380	I	4.2, 6.1.	1	None	205	245	Forbidden	Forbidden	D	
	Pentachloroethane	6.1	UN1669	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40
	Pentachlorophenol	6.1	UN3155	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Pentaerythrite tetranitrate (dry)	Forbidden											
	Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s. *with more than 10 percent but not more than 20 percent PETN, by mass.*	4.1	UN3344	II	4.1	118, N85	None	214	None	Forbidden	Forbidden	E	
	Pentaerythrite tetranitrate *or* Pentaerythritol tetranitrate *or* PETN, *with not less than 7 percent wax by mass.*	1.1D	UN0411	II	1.1D		None	62	None	Forbidden	Forbidden	10	
	Pentaerythrite tetranitrate, wetted *or* Pentaerythritol tetranitrate, wetted, *or* PETN, wetted *with not less than 25 percent water, by mass, or* Pentaerythrite tetranitrate, *or* Pentaerythritol tetranitrate *or* PETN, desensitized *with not less than 15 percent phlegmatizer by mass.*	1.1D	UN0150	II	1.1D	121	None	62	None	Forbidden	Forbidden	10	
	Pentaerythritol tetranitrate, *see* Pentaerythrite tetranitrate, *etc.*												
	Pentafluoroethane *or* Refrigerant gas R 125.	2.2	UN3220		2.2	T50	306	304	314, 315.	75 kg	150 kg	A	
	Pentamethylheptane	3	UN2286	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Pentane-2,4-dione	3	UN2310	III	3, 6.1	B1, IB3, T4, TP1	150	203	242	60 L	220 L	A	
	Pentanes	3	UN1265	I	3	T11, TP2	150	201	243	1 L	30 L	E	
				II	3	IB2, IP8, T4, TP1	150	202	242	5 L	60 L	E	
	Pentanitroaniline (dry)	Forbidden											
	Pentanols	3	UN1105	II	3	IB2, T4, TP1, TP29	150	202	242	5 L	60 L	B	

.....	.....		III	3	B1, B3, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
1-Pentene *(n-amylene)*	3	UN1108	I	3	T11, TP2	150	201	243	1 L	30 L	E	.....
1-Pentol	8	UN2705	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	B	26, 27
Pentolite, *dry or wetted with less than 15 percent water, by mass*.	1.1D	UN0151	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Pepper spray, see Aerosols, etc. or Self-defense spray, non-pressurized.	.....			.....		.....	.....	.....	.....	.....		.....
Perchlorates, inorganic, aqueous solution, n.o.s..	5.1	UN3211	II	5.1	IB2, T4, TP1	152	202	242	1 L	5 L	B	56, 58, 133
.....	.....		III	5.1	IB2, T4, TP1	152	202	241	2.5 L	30 L	B	56, 58, 69, 133
Perchlorates, inorganic, n.o.s. ...	5.1	UN1481	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
.....	.....		III	5.1	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
Perchloric acid, with more than 72 percent acid by mass.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Perchloric acid *with more than 50 percent but not more than 72 percent acid, by mass*.	5.1	UN1873	I	5.1, 8	A2, A3, N41, T10, TP1, TP12	None	201	243	Forbidden	2.5 L	D	66
Perchloric acid *with not more than 50 percent acid by mass*.	8	UN1802	II	8, 5.1	IB2, N41, T7, TP2	None	202	243	Forbidden	30 L	C	66
Perchloroethylene, see Tetrachloroethylene.	.....			.....		.....	.....	.....	.....	.....		.....
Perchloromethyl mercaptan	6.1	UN1670	I	6.1	2, B9, B14, B32, B74, N34, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Perchloryl fluoride	2.3	UN3083	.....	2.3, 5.1.	2, B9, B14	None	302	314, 315.	Forbidden	Forbidden	D	40
Percussion caps, see Primers, cap type.	.....			.....		.....	.....	.....	.....	.....		.....
Perfluoro-2-butene, see Octafluorobut-2-ene.	.....			.....		.....	.....	.....	.....	.....		.....
Perfluoro(ethyl vinyl ether)	2.1	UN3154	.....	2.1		306	302, 304, 305.	314, 315.	Forbidden	150 kg	E	40
Perfluoro(methyl vinyl ether)	2.1	UN3153	.....	2.1	T50	306	302, 304, 305.	314, 315.	Forbidden	150 kg	E	40
Perfumery products *with flammable solvents*.	3	UN1266	II	3	149, IB2, T4, TP1, TP8	150	202	242	15 L	60 L	B	.....
.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Permanganates, inorganic, aqueous solution, n.o.s..	5.1	UN3214	II	5.1	26, IB2, T4, TP1	152	202	242	1 L	5 L	D	56, 58, 133, 138

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Permanganates, inorganic, n.o.s..	5.1	UN1482	II	5.1	26, A30, IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	D	56, 58, 138
				III	5.1	26, A30, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	D	56, 58, 138
	Peroxides, inorganic, n.o.s.	5.1	UN1483	II	5.1	A7, A20, IB6, IP2, N34, T3, TP33	None	212	242	5 kg	25 kg	A	13, 52, 66, 75
				III	5.1	A7, A20, IB8, IP3, N34, T1, TP33	152	213	240	25 kg	100 kg	A	13, 52, 66, 75
	Peroxyacetic acid, with more than 43 percent and with more than 6 percent hydrogen peroxide.	Forbidden											
	Persulfates, inorganic, aqueous solution, n.o.s..	5.1	UN3216	III	5.1	IB2, T4, TP1, TP29	152	203	241	2.5 L	30 L	A	56, 133
	Persulfates, inorganic, n.o.s.	5.1	UN3215	III	5.1	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
G	Pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C*.	3	UN3021	I	3, 6.1	B5, T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	
				II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	
G	Pesticides, liquid, toxic, flammable, n.o.s. *flash point not less than 23 degrees C*.	6.1	UN2903	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1, 3	B1, IB3, T7, TP2	153	203	242	60 L	220 L	A	40
G	Pesticides, liquid, toxic, n.o.s.	6.1	UN2902	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
G	Pesticides, solid, toxic, n.o.s.	6.1	UN2588	I	6.1	IB7, T6, TP33	None	211	242	5 kg	50 kg	A	40
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40

	PETN, *see* Pentaerythrite tetranitrate.	.....			.....		.....	.....	.....	.....	.....		.....
	PETN/TNT, *see* Pentolite, *etc* ...	.....			.....		.....	.....	.....	.....	.....		.....
	Petrol, *see* Gasoline	.....			.....		.....	.....	.....	.....	.....		.....
	Petroleum crude oil	3	UN1267	I	3	144, T11, TP1, TP8	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	144, IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	144, B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
	Petroleum distillates, n.o.s. *or* Petroleum products, n.o.s..	3	UN1268	I	3	144, T11, TP1, TP8	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	144, IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	144, B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
	Petroleum gases, liquefied *or* Liquefied petroleum gas.	2.1	UN1075	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	E	40
D	Petroleum oil	3	NA1270	I	3	144, T11, TP1	None	201	243	1 L	30 L	E	.....
	.....	.....		II	3	144, IB2, T7, TP1, TP8, TP28	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	144, B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
	Phenacyl bromide	6.1	UN2645	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	40
+	Phenetidines	6.1	UN2311	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	Phenol, molten	6.1	UN2312	II	6.1	B14, T7, TP3	None	202	243	Forbidden	Forbidden	B	40
+	Phenol, solid	6.1	UN1671	II	6.1	IB8, IP2, IP4, N78, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Phenol solutions	6.1	UN2821	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
	.....	.....		III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
	Phenolsulfonic acid, liquid	8	UN1803	II	8	B2, IB2, N41, T7, TP2	154	202	242	1 L	30 L	C	14
	Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic *flash point less than 23 degrees C*.	3	UN3346	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Phenoxyacetic acid derivative pesticide, liquid, toxic.	6.1	UN3348	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN3347	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Phenoxyacetic acid derivative pesticide, solid, toxic.	6.1	UN3345	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Phenyl chloroformate	6.1	UN2746	II	6.1, 8	IB2, T7, TP2, TP13	153	202	243	1 L	30 L	A	12, 13, 21, 25, 40, 100
	Phenyl isocyanate	6.1	UN2487	I	6.1, 3	2, B9, B14, B32, B74, B77, N33, N34, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	Phenyl mercaptan	6.1	UN2337	I	6.1, 3	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	B	40, 52
	Phenyl phosphorus dichloride	8	UN2798	II	8	B2, B15, IB2, T7, TP2	154	202	242	Forbidden	30 L	B	40
	Phenyl phosphorus thiodichloride.	8	UN2799	II	8	B2, B15, IB2, T7, TP2	154	202	242	Forbidden	30 L	B	40
	Phenyl urea pesticides, liquid, toxic.	6.1	UN3002	I	6.1	T14, TP2 TP27	None	201	243	1 L	30 L	B	40
				II	6.1	T7, TP2	None	202	243	5 L	60 L	B	40
				III	6.1	T4, TP1	153	203	241	60 L	220 L	A	40
	Phenylacetonitrile, liquid	6.1	UN2470	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	52
	Phenylacetyl chloride	8	UN2577	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	C	40
	Phenylcarbylamine chloride	6.1	UN1672	I	6.1	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
	m-Phenylene diaminediperchlorate (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
+	Phenylenediamines *(o-; m-; p-;)*	6.1	UN1673	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Phenylhydrazine	6.1	UN2572	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40

Phenylmercuric acetate	6.1	UN1674	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
Phenylmercuric compounds, n.o.s..	6.1	UN2026	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	
			II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
			III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
Phenylmercuric hydroxide	6.1	UN1894	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
Phenylmercuric nitrate	6.1	UN1895	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
Phenyltrichlorosilane	8	UN1804	II	8	A7, B6, IB2, N34, T7, TP2	None	202	242	Forbidden	30 L	C	40
Phosgene	2.3	UN1076		2.3, 8	1, B7, B46	None	192	314	Forbidden	Forbidden	D	40
9-Phosphabicyclononanes *or* Cyclooctadiene phosphines.	4.2	UN2940	II	4.2	A19, IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	A	
Phosphine	2.3	UN2199		2.3, 2.1.	1	None	192	245	Forbidden	Forbidden	D	40
Phosphoric acid solution	8	UN1805	III	8	A7, IB3, N34, T4, TP1	154	203	241	5 L	60 L	A	
Phosphoric acid, solid	8	UN3453	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
Phosphoric acid triethyleneimine, see Tris-(1-aziridiyl)phosphine oxide, solution.												
Phosphoric anhydride, see Phosphorus pentoxide.												
Phosphorous acid	8	UN2834	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	48
Phosphorus, amorphous	4.1	UN1338	III	4.1	A1, A19, B1, B9, B26, IB8, IP3, T1, TP33	None	213	243	25 kg	100 kg	A	74
Phosphorus bromide, see Phosphorus tribromide.												
Phosphorus chloride, see Phosphorus trichloride.												
Phosphorus heptasulfide, *free from yellow or white phosphorus*.	4.1	UN1339	II	4.1	A20, IB4, N34, T3, TP33	None	212	240	15 kg	50 kg	B	74
Phosphorus oxybromide	8	UN1939	II	8	B8, IB8, IP2, IP4, N41, N43, T3, TP33	None	212	240	Forbidden	50 kg	C	12, 40
Phosphorus oxybromide, molten	8	UN2576	II	8	B2, B8, IB1, N41, N43, T7, TP3, TP13	None	202	242	Forbidden	Forbidden	C	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
+	Phosphorus oxychloride	8	UN1810	II	8, 6.1	2, B9, B14, B32, B74, B77, N34, T20, TP2, TP38, TP45	None	227	244	Forbidden	Forbidden	C	40
	Phosphorus pentabromide	8	UN2691	II	8	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	240	Forbidden	50 kg	B	12, 40, 53, 55
	Phosphorus pentachloride	8	UN1806	II	8	A7, IB8, IP2, IP4, N34, T3, TP33	None	212	240	Forbidden	50 kg	C	40, 44, 89, 100, 141
	Phosphorus Pentafluoride	2.3	UN2198		2.3, 8	2, B9, B14	None	302, 304.	314, 315.	Forbidden	Forbidden	D	40
	Phosphorus pentasulfide, *free from yellow or white phosphorus*.	4.3	UN1340	II	4.3, 4.1.	A20, B59, IB4, T3, TP33	151	212	242	15 kg	50 kg	B	74
	Phosphorus pentoxide	8	UN1807	II	8	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	240	15 kg	50 kg	A	
	Phosphorus sesquisulfide, *free from yellow or white phosphorus*.	4.1	UN1341	II	4.1	A20, IB4, N34, T3, TP33	None	212	240	15 kg	50 kg	B	74
	Phosphorus tribromide	8	UN1808	II	8	A3, A6, A7, B2, B25, IB2, N34, N43, T7, TP2	None	202	242	Forbidden	30 L	C	40
	Phosphorus trichloride	6.1	UN1809	I	6.1, 8	2, B9, B14, B15, B32, B74, B77, N34, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	C	40
	Phosphorus trioxide	8	UN2578	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	12
	Phosphorus trisulfide, *free from yellow or white phosphorus*.	4.1	UN1343	II	4.1	A20, IB4, N34, T3, TP33	None	212	240	15 kg	50 kg	B	74
	Phosphorus, white dry *or* Phosphorus, white, under water *or* Phosphorus white, in solution *or* Phosphorus, yellow dry *or* Phosphorus, yellow, under water *or* Phosphorus, yellow, in solution.	4.2	UN1381	I	4.2, 6.1.	B9, B26, N34, T9, TP3, TP31	None	188	243	Forbidden	Forbidden	E	

Phosphorus white, molten	4.2	UN2447	I	4.2, 6.1.	B9, B26, N34, T21, TP3, TP7, TP26	None	188	243	Forbidden	Forbidden	D	
Phosphorus (white or red) and a chlorate, mixtures of.	Forbidden											
Phosphoryl chloride, see Phosphorus oxychloride.												
Phthalic anhydride *with more than .05 percent maleic anhydride.*	8	UN2214	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
Picolines	3	UN2313	III	3	B1, IB3, T4, TP1	150	203	242	60 L	220 L	A	40
Picric acid, *see* Trinitrophenol, *etc.*												
Picrite, *see* Nitroguanidine, *etc*												
Picryl chloride, *see* Trinitrochlorobenzene.												
Pine oil	3	UN1272	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
alpha-Pinene	3	UN2368	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Piperazine	8	UN2579	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	12, 52
Piperidine	8	UN2401	I	8, 3	A10, T10, TP2	None	201	243	0.5 L	2.5 L	B	52
Pivaloyl chloride, see Trimethylacetyl chloride.												
Plastic molding compound *in dough, sheet or extruded rope form evolving flammable vapor.*	9	UN3314	III	9	32, IB8, IP3, IP7	155	221	221	100 kg	200 kg	E	19, 21, 25, 87, 144.
Plastic solvent, n.o.s., see Flammable liquids, n.o.s..												
Plastics, nitrocellulose-based, self-heating, n.o.s..	4.2	UN2006	III	4.2		None	213	None	Forbidden	Forbidden	C	
Poisonous gases, n.o.s., see Compressed *or* liquefied gases, flammable *or* toxic, n.o.s..												
Polyalkylamines, n.o.s., see Amines, *etc.*												
Polychlorinated biphenyls, liquid	9	UN2315	II	9	9, 81, 140, IB3, T4, TP1	155	202	241	100 L	220 L	A	95
Polychlorinated biphenyls, solid	9	UN3432	II	9	9, 81, 140, IB8, T3, TP33	155	212	240	100 kg	200 kg	A	95
Polyester resin kit	3	UN3269		3	40, 149	152	225	None	5 kg	5 kg	B	
Polyhalogenated biphenyls, liquid *or* Polyhalogenated terphenyls liquid.	9	UN3151	II	9	IB2	155	204	241	100 L	220 L	A	95
Polyhalogenated biphenyls, solid *or* Polyhalogenated terphenyls, solid.	9	UN3152	II	9	IB8, IP2, IP4, T3, TP33	155	204	241	100 kg	200 kg	A	95

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Polymeric beads expandable, *evolving flammable vapor*.	9	UN2211	III	9	32, IB8, IP3, IP7, T1, TP33	155	221	221	100 kg	200 kg	E	19, 21. 25, 87, 144.
	Potassium	4.3	UN2257	I	4.3	A7, A19, A20, B27, IB4, IP1, N6, N34, T9, TP7, TP33	None	211	244	Forbidden	15 kg	D	52
	Potassium arsenate	6.1	UN1677	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Potassium arsenite	6.1	UN1678	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Potassium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s..												
	Potassium borohydride	4.3	UN1870	I	4.3	A19, N40	None	211	242	Forbidden	15 kg	E	52
	Potassium bromate	5.1	UN1484	II	5.1	IB8, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Potassium carbonyl	Forbidden											
	Potassium chlorate	5.1	UN1485	II	5.1	A9, IB8, IP4, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Potassium chlorate, aqueous solution.	5.1	UN2427	II	5.1	A2, IB2, T4, TP1	152	202	241	1 L	5 L	B	56, 58, 133
				III	5.1	A2, IB2, T4, TP1	152	203	241	2.5 L	30 L	B	56, 58, 69, 133
	Potassium chlorate mixed with mineral oil, see Explosive, blasting, type C.												
	Potassium cuprocyanide	6.1	UN1679	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	52
	Potassium cyanide, solid	6.1	UN1680	I	6.1	B69, B77, IB7, IP1, N74, N75, T6, TP33	None	211	242	5 kg	50 kg	B	52
	Potassium cyanide solution	6.1	UN3413	I	6.1	B69, B77, N74, N75, T14, TP2, TP13	None	201	243	1 L	30 L	B	52
				II	6.1	B69, B77, IB2, N74, N75, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	52
				III	6.1	B69, B77, IB3, N74, N75, T7, TP2, TP13, TP28	153	203	241	60 L	220 L	A	52

Potassium dichloro isocyanurate or Potassium dichloro-s-triazinetrione, see Dichloroisocyanuric acid, dry *or* Dichloroisocyanuric acid salts *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
Potassium dithionite *or* Potassium hydrosulfite.	4.2	UN1929	II	4.2	A8, A19, A20, IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	E	13
Potassium fluoride, solid	6.1	UN1812	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
Potassium fluoride solution	6.1	UN3422	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	52
Potassium fluoroacetate	6.1	UN2628	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	E	.....
Potassium fluorosilicate	6.1	UN2655	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
Potassium hydrate, see Potassium hydroxide, solid.	.....			.....		.....	.....	.....	.....	.....		.....
Potassium hydrogen fluoride, see Potassium hydrogen difluoride.	.....			.....		.....	.....	.....	.....	.....		.....
Potassium hydrogen fluoride solution, see Corrosive liquid, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
Potassium hydrogen sulfate	8	UN2509	II	8	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	240	15 kg	50 kg	A	.....
Potassium hydrogendifluoride solid.	8	UN1811	II	8, 6.1	IB8, IP2, IP4, N3, N34, T3, TP33	154	212	240	15 kg	50 kg	A	25, 40, 52
Potassium hydrogendifluoride solution.	8	UN3421	II	8, 6.1	IB2, N3, N34, T7, TP2	154	202	243	1 L	30 L	A	25, 40, 52
.....	.....		III	8, 6.1	IB3, N3, N34, T4, TP1	154	203	241	5 L	60 L	A	40, 52
Potassium hydrosulfite, *see* Potassium dithionite.	.....			.....		.....	.....	.....	.....	.....		.....
Potassium hydroxide, liquid, see Potassium hydroxide solution.	.....			.....		.....	.....	.....	.....	.....		.....
Potassium hydroxide, solid	8	UN1813	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52.
Potassium hydroxide, solution ...	8	UN1814	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	52.
			III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	52.
Potassium hypochlorite, solution, see Hypochlorite solutions, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
Potassium, metal alloys, liquid ..	4.3	UN1420	I	4.3	A7, A19, A20, B27	None	201	244	Forbidden	1 L	E	40, 52
Potassium, metal alloys, solid ...	4.3	UN3403	I	4.3	A19, A20, B27, IB4, IP1, T9, TP7, TP33	None	211	244	Forbidden	15 kg	D	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Potassium metavanadate	6.1	UN2864	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Potassium monoxide	8	UN2033	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	29, 52.
	Potassium nitrate	5.1	UN1486	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Potassium nitrate and sodium nitrite mixtures.	5.1	UN1487	II	5.1	B78, IB8, IP4, T3, TP33	152	212	240	5 kg	25 kg	A	56, 58
	Potassium nitrite	5.1	UN1488	II	5.1	IB8, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Potassium perchlorate	5.1	UN1489	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Potassium permanganate	5.1	UN1490	II	5.1	IB8, IP4, T3, TP33	152	212	240	5 kg	25 kg	D	56, 58, 138
	Potassium peroxide	5.1	UN1491	I	5.1	A20, IB6, IP1, N34	None	211	None	Forbidden	15 kg	B	13, 52, 66, 75
	Potassium persulfate	5.1	UN1492	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
	Potassium phosphide	4.3	UN2012	I	4.3, 6.1.	A19, N40	None	211	None	Forbidden	15 kg	E	40, 52, 85
	Potassium selenate, see Selenates *or* Selenites.												
	Potassium selenite, see Selenates *or* Selenites.												
	Potassium solium alloys, liquid	4.3	UN1422	I	4.3	A7, A19, B27, N34, N40, T9, TP3, TP7, TP31	None	201	244	Forbidden	1 L	E	40, 52
	Potassium sodium alloys, solid	4.3	UN3404	I	4.3	A19, B27, N34, N40, T9, TP7, TP33	None	211	244	Forbidden	15 kg	D	52
	Potassium sulfide, anhydrous *or* Potassium sulfide *with less than 30 percent water of crystallization*.	4.2	UN1382	II	4.2	A19, A20, B16, IB6, IP2, N34, T3, TP33	None	212	241	15 kg	50 kg	A	52
	Potassium sulfide, hydrated *with not less than 30 percent water of crystallization*.	8	UN1847	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52
	Potassium superoxide	5.1	UN2466	I	5.1	A20, IB6, IP1	None	211	None	Forbidden	15 kg	B	13, 52, 66, 75

Powder cake, wetted *or* Powder paste, wetted *with not less than 17 percent alcohol by mass*.	1.1C	UN0433	II	1.1C ..		None	62	None	Forbidden	Forbidden	10	.....
Powder cake, wetted *or* Powder paste, wetted *with not less than 25 percent water, by mass*.	1.3C	UN0159	II	1.3C ..		None	62	None	Forbidden	Forbidden	10	.....
Powder paste, *see* Powder cake, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
Powder, smokeless	1.1C	UN0160	II	1.1C ..		None	62	None	Forbidden	Forbidden		26E
Powder, smokeless	1.3C	UN0161	II	1.3C ..		None	62	None	Forbidden	Forbidden		26E
Power device, explosive, see Cartridges, power device.	.....			.....		.....	.....	.....	.....	.....		.....
Primers, cap type	1.4S	UN0044	II	None		None	62	None	25 kg	100 kg	05	.....
Primers, cap type	1.1B	UN0377	II	1.1B ...		None	62	None	Forbidden	Forbidden	11	.....
Primers, cap type	1.4B	UN0378	II	1.4B ...		None	62	None	Forbidden	75 kg	06	.....
Primers, small arms, see Primers, cap type.	.....			.....		.....	.....	.....	.....	.....		.....
Primers, tubular	1.3G	UN0319	II	1.3G ..		None	62	None	Forbidden	Forbidden	07	.....
Primers, tubular	1.4G	UN0320	II	1.4G ..		None	62	None	Forbidden	75 kg	06	.....
Primers, tubular	1.4S	UN0376	II	None		None	62	None	25 kg	100 kg	05	.....
Printing ink, *flammable or* Printing ink related material *(including printing ink thinning or reducing compound), flammable.*	3	UN1210	I	3	T11, TP1, TP8	150	173	243	1 L	30 L	E	.....
.....	.....		II	3	149, IB2, T4, TP1, TP8	150	173	242	5 L	60 L	B	.....
.....	.....		III	3	B1, IB3, T2, TP1	150	173	242	60 L	220 L	A	.....
Projectiles, illuminating, see Ammunition, illuminating, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
Projectiles, *inert with tracer*	1.4S	UN0345	II	1.4S ...		.....	62	None	25 kg	100 kg	01	.....
Projectiles, *inert, with tracer*	1.3G	UN0424	II	1.3G ..		.....	62	None	Forbidden	Forbidden	03	.....
Projectiles, *inert, with tracer*	1.4G	UN0425	II	1.4G ..		.....	62	None	Forbidden	75 kg	02	.....
Projectiles, *with burster or expelling charge*.	1.2D	UN0346	II	1.2D ..		.....	62	None	Forbidden	Forbidden	03	.....
Projectiles, *with burster or expelling charge*.	1.4D	UN0347	II	1.4D ..		.....	62	None	Forbidden	75 kg	02	.....
Projectiles, *with burster or expelling charge*.	1.2F	UN0426	II	1.2F ...		.....	62	None	Forbidden	Forbidden	08	.....
Projectiles, *with burster or expelling charge*.	1.4F	UN0427	II	1.4F ...		.....	62	None	Forbidden	Forbidden	08	.....
Projectiles, *with burster or expelling charge*.	1.2G	UN0434	II	1.2G ..		.....	62	None	Forbidden	Forbidden	03	.....
Projectiles, *with burster or expelling charge*.	1.4G	UN0435	II	1.4G ..		.....	62	None	Forbidden	75 kg	02	.....
Projectiles, *with bursting charge*	1.1F	UN0167	II	1.1F ...		.....	62	None	Forbidden	Forbidden	08	.....
Projectiles, *with bursting charge*	1.1D	UN0168	II	1.1D ..		.....	62	None	Forbidden	Forbidden	03	.....
Projectiles, *with bursting charge*	1.2D	UN0169	II	1.2D ..		.....	62	None	Forbidden	Forbidden	03	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Projectiles, *with bursting charge*	1.2F	UN0324	II	1.2F			62	None	Forbidden	Forbidden	08	
	Projectiles, *with bursting charge*	1.4D	UN0344	II	1.4D			62	None	Forbidden	75 kg	02	
	Propadiene, stabilized	2.1	UN2200		2.1		None	304	314, 315.	Forbidden	150 kg	B	40
	Propadiene mixed with methyl acetylene, see Methyl acetylene and propadiene mixtures, stabilized.												
	Propane *see also* Petroleum gases, liquefied.	2.1	UN1978		2.1	19, T50	306	304	314, 315.	Forbidden	150 kg	E	40
	Propanethiols	3	UN2402	II	3	A6, IB2, T4, TP1, TP13	150	202	242	5 L	60 L	E	95, 102
	n-Propanol *or* Propyl alcohol, normal.	3	UN1274	II	3	B1, IB2, T4, TP1	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Propellant, liquid	1.3C	UN0495	II	1.3C	37	None	62	None	Forbidden	Forbidden	10	
	Propellant, liquid	1.1C	UN0497	II	1.1C	37	None	62	None	Forbidden	Forbidden	10	
	Propellant, solid	1.1C	UN0498	II	1.1C		None	62	None	Forbidden	Forbidden		26E
	Propellant, solid	1.3C	UN0499	II	1.3C		None	62	None	Forbidden	Forbidden		26E
	Propellant, solid	1.4C	UN0501		1.4C		None	62	None	Forbidden	Forbidden	A	24E
	Propionaldehyde	3	UN1275	II	3	IB2, T7, TP1	150	202	242	5 L	60 L	E	
	Propionic acid *with not less than 90% acid by mass*.	8	UN3463	II	8, 3	IB2, T7, TP2	154	202	243	1 L	30 L	A.	
	Propionic acid *with not less than 10% and less than 90% acid by mass*.	8	UN1848	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A.	
	Propionic anhydride	8	UN2496	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Propionitrile	3	UN2404	II	3, 6.1	IB2, T7, TP1, TP13	None	202	243	Forbidden	60 L	E	40
	Propionyl chloride	3	UN1815	II	3, 8	IB1, T7, TP1	150	202	243	1 L	5 L	B	40
	n-Propyl acetate	3	UN1276	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Propyl alcohol, *see* Propanol												
	n-Propyl benzene	3	UN2364	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	n-Propyl chloroformate	6.1	UN2740	I	6.1, 3, 8.	2, B9, B14, B32, B74, B77, N34, T20, TP2, TP13, TP38, TP44	None	227	244	Forbidden	Forbidden	B	21, 40, 100
	Propyl chloride see 1-Chloropropane.												
	Propyl formates	3	UN1281	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	

n-Propyl isocyanate	6.1	UN2482	I	6.1, 3	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
Propyl mercaptan, see Propanethiols.												
n-Propyl nitrate	3	UN1865	II	3	IB9	150	202	None	5 L	60 L	D	44, 89, 90, 100
Propylamine	3	UN1277	II	3, 8	A7, IB2, N34, T7, TP1	150	202	243	1 L	5 L	E	40
Propylene *see also* Petroleum gases, liquefied.	2.1	UN1077		2.1	19, T50	306	304	314, 315.	Forbidden	150 kg	E	40
Propylene chlorohydrin	6.1	UN2611	II	6.1, 3	IB2, T7, TP2, TP13	153	202	243	5 L	60 L	A	12, 40, 48
Propylene oxide	3	UN1280	I	3	A3, N34, T11, TP2, TP7	None	201	243	1 L	30 L	E	40
Propylene tetramer	3	UN2850	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
1,2-Propylenediamine	8	UN2258	II	8, 3	A3, A6, IB2, N34, T7, TP2	None	202	243	1 L	30 L	A	40
Propyleneimine, stabilized	3	UN1921	I	3, 6.1	A3, N34, T14, TP2, TP13	None	201	243	1 L	30 L	B	40
Propyltrichlorosilane	8	UN1816	II	8, 3	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	243	Forbidden	30 L	C	40
Prussic acid, see Hydrogen cyanide.												
Pyrethroid pesticide, liquid, flammable, toxic, *flash point less than 23 degrees C*.	3	UN3350	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
			II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
Pyrethroid pesticide, liquid toxic	6.1	UN3352	I	6.1	T14, TP2, TP13, TP27	None	211	242	1 L	30 L	A	40
			II	6.1	IB2, T11, TP2, TP27	153	212	242	5 L	60 L	A	40
			III	6.1	IB3, T7, TP2, TP28	153	213	240	60 L	220 L	A	40
Pyrethroid pesticide, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN3351	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
			II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
			III	6.1, 3	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	B	40
Pyrethroid pesticide, solid, toxic	6.1	UN3349	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
			II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
			III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	(8) Packaging (§ 173.***) Non-bulk	(8) Packaging (§ 173.***) Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	(9) Quantity limitations (see §§ 173.27 and 175.75) Cargo aircraft only	(10) Vessel stowage Location	(10) Vessel stowage Other
	Pyridine	3	UN1282	II	3	IB2, T4, TP2	None	202	242	5 L	60 L	B	21, 100
	Pyridine perchlorate	Forbidden											
G	Pyrophoric liquid, inorganic, n.o.s..	4.2	UN3194	I	4.2		None	181	244	Forbidden	Forbidden	D	18
G	Pyrophoric liquids, organic, n.o.s..	4.2	UN2845	I	4.2	B11, T22, TP2, TP7	None	181	244	Forbidden	Forbidden	D	18
G	Pyrophoric metals, n.o.s., *or* Pyrophoric alloys, n.o.s..	4.2	UN1383	I	4.2	B11, T21, TP7, TP33	None	187	242	Forbidden	Forbidden	D	
G	Pyrophoric solid, inorganic, n.o.s..	4.2	UN3200	I	4.2	T21, TP7, TP33	None	187	242	Forbidden	Forbidden	D	
G	Pyrophoric solids, organic, n.o.s.	4.2	UN2846	I	4.2		None	187	242	Forbidden	Forbidden	D	
	Pyrosulfuryl chloride	8	UN1817	II	8	B2, IB2, T8, TP2, TP12	154	202	242	1 L	30 L	C	40
	Pyroxylin solution or solvent, see Nitrocellulose.												
	Pyrrolidine	3	UN1922	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	40, 52
	Quebrachitol pentanitrate	Forbidden											
	Quicklime, see Calcium oxide												
	Quinoline	6.1	UN2656	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	12
	R 12, see Dichlorodifluoromethane.												
	R 12B1, see Chlorodifluorobromomethane.												
	R 13, see Chlorotrifluoromethane.												
	R 13B1, see Bromotrifluoromethane.												
	R 14, see Tetrafluoromethane												
	R 21, see Dichlorofluoromethane.												
	R 22, see Chlorodifluoromethane.												
	R 114, see Dichlorotetrafluoroethane.												
	R 115, see Chloropentafluoroethane.												
	R 116, see Hexafluoroethane												
	R 124, see Chlorotetrafluoroethane.												
	R 133a, see Chlorotrifluoroethane.												

R 152a, see Difluoroethane	.....			.....		.....	.....	.....	.....	.....		.....
R 500, see Dichlorodifluoromethane and difluoroethane, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
R 502, see Chlorodifluoromethane and chloropentafluoroethane mixture, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
R 503, see Chlorotrifluoromethane and trifluoromethane, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
Radioactive material, excepted package-articles manufactured from natural uranium *or* depleted uranium *or* natural thorium.	7	UN2909	.....	None		422, 426.	422, 426.	422, 426.	.....	.....	A	.....
Radioactive material, excepted package-empty packaging.	7	UN2908	.....	Empty		422, 428.	422, 428.	422, 428.	.....	.....	A	.....
Radioactive material, excepted package-instruments *or* articles.	7	UN2911	.....	None		422, 424.	422, 424.	.....	.....	.....	A	.....
Radioactive material, excepted package-limited quantity of material.	7	UN2910	.....	None		421, 422.	421, 422.	421, 422.	.....	.....	A	.....
Radioactive material, low specific activity (LSA-I) *non fissile or fissile-excepted*.	7	UN2912	.....	7	A56, T5, TP4, W7	421, 422, 428.	427	427	.....	.....	A	95, 129
Radioactive material, low specific activity (LSA-II) *non fissile or fissile-excepted*.	7	UN3321	.....	7	A56, T5, TP4, W7	421, 422, 428.	427	427	.....	.....	A	95, 129
Radioactive material, low specific activity (LSA-III) *non fissile or fissile excepted*.	7	UN3322	.....	7	A56, T5, TP4, W7	421, 422, 428.	427	427	.....	.....	A	95, 129
Radioactive material, surface contaminated objects (SCO-I *or* SCO-II) *non fissile or fissile-excepted*.	7	UN2913	.....	7	A56	421, 422, 428.	427	427	.....	.....	A	95
Radioactive material, transported under special arrangement, *non fissile or fissile excepted*.	7	UN2919	.....	7	A56, 139	.....	.....	.....	.....	.....	A	95, 105
Radioactive material, transported under special arrangement, fissile.	7	UN3331	.....	7	A56, 139	.....	.....	.....	.....	.....	A	95, 105
Radioactive material, Type A package, fissile *non-special form*.	7	UN3327	.....	7	A56, W7, W8	453	417	417	.....	.....	A	95, 105, 131
Radioactive material, Type A package *non-special form, non fissile or fissile-excepted*.	7	UN2915	.....	7	A56, W7, W8	.....	415, 418.	415, 419.	.....	.....	A	95, 130

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Radioactive material, Type A package, special form *non fissile or fissile-excepted*.	7	UN3332	.....	7	A56, W7, W8	.....	415, 476.	415, 476.	.....	.....	A	95
	Radioactive material, Type A package, special form, fissile.	7	UN3333	.....	7	A56, W7, W8	453	417, 476.	417, 476.	.....	.....	A	95, 105
	Radioactive material, Type B(M) package, fissile.	7	UN3329	.....	7	A56	453	417	417	.....	.....	A	95, 105
	Radioactive material, Type B(M) package *non fissile or fissile-excepted*.	7	UN2917	.....	7	A56	.....	416	416	.....	.....	A	95, 105
	Radioactive material, Type B(U) package, fissile.	7	UN3328	.....	7	A56	453	417	417	.....	.....	A	95, 105
	Radioactive material, Type B(U) package *non fissile or fissile-excepted*.	7	UN2916	.....	7	A56	.....	416	416	.....	.....	A	95, 105
	Radioactive material, uranium hexafluoride *non fissile or fissile-excepted*.	7	UN2978	.....	7, 8		423	420, 427.	420, 427.	.....	.....	A	95, 132
	Radioactive material, uranium hexafluoride, fissile.	7	UN2977	.....	7, 8	.....	453	417, 420.	417, 420.	.....	.....	A	95, 132
A W	Rags, oily	4.2	UN1856	III	4.2		151	213	240	Forbidden	Forbidden	A	.....
	Railway torpedo, see Signals, railway track, explosive.	.....			.....		.....	.....	.....	.....	.....		.....
	RC 318, see Octafluorocyclobutane.	.....			.....		.....	.....	.....	.....	.....		.....
	RDX and cyclotetramethylenetetranitramine, wetted *or* desensitized *see* RDX and HMX mixtures, wetted or desensitized.	.....			.....		.....	.....	.....	.....	.....		.....
	RDX and HMX mixtures, wetted *with not less than 15 percent water by mass or* RDX and HMX mixtures, desensitized *with not less than 10 percent phlegmatizer by mass*.	1.1D	UN0391	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	RDX and Octogen mixtures, wetted *or* desensitized *see* RDX and HMX mixtures, wetted *or* desensitized *etc*.	.....			.....		.....	.....	.....	.....	.....		.....

	RDX, see Cyclotrimethylene trinitramine, *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
	Receptacles, small, containing agas (gas cartridges) *non-flammable, without release device, not refillable and not exceeding 1 L capacity*.	2.2	UN2037	.....	2.2, 5.1.	A14	306	304	None	1 kg	15 kg	B	40
	Receptacles, small, containing gas (gas cartridges) *flammable, without release device, not refillable and not exceeding 1 L capacity*.	2.1	UN2037	.....	2.1		306	304	None	1 kg	15 kg	B	40
	Receptacles, small, containing gas (gas cartridges) *non-flammable, without release device, not refillable and not exceeding 1 L capacity*.	2.2	UN2037	.....	2.2		306	304	None	1 kg	15 kg	B	40
	Red phosphorus, see Phosphorus, amorphous.	.....			.....		.....	.....	.....	.....	.....		.....
	Refrigerant gas R 404A	2.2	UN3337	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Refrigerant gas R 407A	2.2	UN3338	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Refrigerant gas R 407B	2.2	UN3339	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
	Refrigerant gas R 407C	2.2	UN3340	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
G	Refrigerant gases, n.o.s.	2.2	UN1078	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
D	Refrigerant gases, n.o.s. *or* Dispersant gases, n.o.s..	2.1	NA1954	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	D	40
	Refrigerating machines, *containing flammable, non-toxic, liquefied gas*.	2.1	UN3358	.....	2.1	.....	306, 307.	306	306	Forbidden	Forbidden	D	40
	Refrigerating machines, *containing non-flammable, non-toxic gases, or ammonia solutions (UN2672)*.	2.2	UN2857	.....	2.2	A53	306, 307.	306	306, 307.	450 kg	450 kg	A	.....
	Regulated medical waste, n.o.s. *or* Clinical waste, unspecified, n.o.s. *or* (BIO) Medical waste, n.o.s.	6.2	UN3291	II	6.2	A13	134	197	197	No limit	No limit	B	40.
	Release devices, explosive	1.4S	UN0173	II	1.4S ...		None	62	None	25 kg	100 kg	05	.....
	Resin solution, *flammable*	3	UN1866	I	3	B52, T11, TP1, TP8, TP28	150	201	243	1 L	30 L	E	.....
	.....	.....		II	3	149, B52, IB2, T4, TP1, TP8	150	173	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, B52, IB3, T2, TP1	150	173	242	60 L	220 L	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Resorcinol	6.1	UN2876	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Rifle grenade, see Grenades, *hand or rifle, etc.*												
	Rifle powder, see Powder, smokeless *(UN 0160).*												
	Rivets, explosive	1.4S	UN0174	II	1.4S		None	62	None	25 kg	100 kg	05	
	Road asphalt or tar liquid, see Tars, liquid, *etc.*												
	Rocket motors	1.3C	UN0186	II	1.3C	109	None	62	None	Forbidden	220 kg	03	
	Rocket motors	1.1C	UN0280	II	1.1C	109	None	62	None	Forbidden	Forbidden	03	
	Rocket motors	1.2C	UN0281	II	1.2C	109	None	62	None	Forbidden	Forbidden	03	
	Rocket motors, liquid fueled	1.2J	UN0395	II	1.2J	109	None	62	None	Forbidden	Forbidden	04	23E
	Rocket motors, liquid fueled	1.3J	UN0396	II	1.3J	109	None	62	None	Forbidden	Forbidden	04	23E
	Rocket motors with hypergolic liquids *with or without an expelling charge.*	1.3L	UN0250	II	1.3L	109	None	62	None	Forbidden	Forbidden	08	8E, 14E, 15E
	Rocket motors with hypergolic liquids *with or without an expelling charge.*	1.2L	UN0322	II	1.2L	109	None	62	None	Forbidden	Forbidden	08	8E, 14E, 15E
	Rockets, line-throwing	1.2G	UN0238	II	1.2G		None	62	None	Forbidden	Forbidden	07	
	Rockets, line-throwing	1.3G	UN0240	II	1.3G		None	62	None	Forbidden	75 kg	07	
	Rockets, line-throwing	1.4G	UN0453	II	1.4G		None	62	None	Forbidden	75 kg	06	
	Rockets, liquid fueled *with bursting charge.*	1.1J	UN0397	II	1.1J		None	62	None	Forbidden	Forbidden	04	23E
	Rockets, liquid fueled *with bursting charge.*	1.2J	UN0398	II	1.2J		None	62	None	Forbidden	Forbidden	04	23E
	Rockets, *with bursting charge*	1.1F	UN0180	II	1.1F		None	62	None	Forbidden	Forbidden	08	
	Rockets, *with bursting charge*	1.1E	UN0181	II	1.1E		None	62	None	Forbidden	Forbidden	03	
	Rockets, *with bursting charge*	1.2E	UN0182	II	1.2E		None	62	None	Forbidden	Forbidden	03	
	Rockets, *with bursting charge*	1.2F	UN0295	II	1.2F		None	62	None	Forbidden	Forbidden	08	
	Rockets, *with expelling charge*	1.2C	UN0436	II	1.2C		None	62	None	Forbidden	Forbidden	03	
	Rockets, *with expelling charge*	1.3C	UN0437	II	1.3C		None	62	None	Forbidden	Forbidden	03	
	Rockets, *with expelling charge*	1.4C	UN0438	II	1.4C		None	62	None	Forbidden	75 kg	02	
	Rockets, *with inert head*	1.3C	UN0183	II	1.3C		None	62	None	Forbidden	Forbidden	03	
	Rockets, *with inert head*	1.2C	UN0502		1.2C		None	62	None	Forbidden	Forbidden	B	1E, 5E
	Rosin oil	3	UN1286	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Rubber solution	3	UN1287	II	3	149, IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	
				III		B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	

	Rubber scrap *or* shoddy, *powdered or granulated, not exceeding 840 microns and rubber contend exceeding 45%*.	4.1	UN1345	II	4.1	IB8, IP2, IP4, T3, TP33	151	212	240	15 kg	50 kg	A	
	Rubidium	4.3	UN1423	I	4.3	22, A7, A19, IB4, IP1, N34, N40, N45	None	211	242	Forbidden	15 kg	D	52
	Rubidium hydroxide	8	UN2678	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	29, 52.
	Rubidium hydroxide solution	8	UN2677	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	29, 52.
				III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	29, 52.
	Safety fuse, see Fuse, safety												
G	Samples, explosive, *other than initiating explosives*.		UN0190	II		113	None	62	None	Forbidden	Forbidden	14	
	Sand acid, see Fluorosilicic acid												
	Seed cake, *containing vegetable oil solvent extractions and expelled seeds, with not more than 10 percent of oil and when the amount of moisture is higher than 11 percent, with not more than 20 percent of oil and moisture combined.*	4.2	UN1386	III	None	IB8, IP3, IP7, N7	None	213	241	Forbidden	Forbidden	A	13
I	Seed cake *with more than 1.5 percent oil and not more than 11 percent moisture*.	4.2	UN1386	III	None	IB8, IP3, IP7, N7	None	213	241	Forbidden	Forbidden	E	13
I	Seed cake *with not more than 1.5 percent oil and not more than 11 percent moisture*.	4.2	UN2217	III	None	IB8, IP3, IP7, N7	None	213	241	Forbidden	Forbidden	A	13
	Selenates *or* Selenites	6.1	UN2630	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	E	
	Selenic acid	8	UN1905	I	8	IB7, IP1, N34, T6, TP33	None	211	242	Forbidden	25 kg	A	
	Selenium compound, liquid, n.o.s.	6.1	UN3440	I	6.1	T14, TP2, TP27	None	201	243	1L	30L	B	
				II	6.1	IIB2, T11, TP2, TP27	153	202	243	5 L	60 L	B	
				III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	
	Selenium compound, solid, n.o.s..	6.1	UN3283	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	
				II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	
				III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Selenium disulfide	6.1	UN2657	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Selenium hexafluoride	2.3	UN2194		2.3, 8	1	None	302	None	Forbidden	Forbidden	D	40
	Selenium nitride	Forbidden											

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Selenium oxychloride	8	UN2879	I	8, 6.1	A3, A6, A7, N34, T10, TP2, TP12, TP13	None	201	243	0.5 L	2.5 L	E	40
	Self-defense spray, aerosol, see Aerosols, *etc.*												
+ A D	Self-defense spray, non-pressurized.	9	NA3334	III	9	A37	155	203	None	No limit	No limit	A	
G	Self-heating liquid, corrosive, inorganic, n.o.s..	4.2	UN3188	II	4.2, 8	IB2	None	202	243	1 L	5 L	C	
				III	4.2, 8	IB2	None	203	241	5 L	60 L	C	
G	Self-heating liquid, corrosive, organic, n.o.s..	4.2	UN3185	II	4.2, 8	IB2	None	202	243	1 L	5 L	C	
				III	4.2, 8	IB2	None	203	241	5 L	60 L	C	
G	Self-heating liquid, inorganic, n.o.s..	4.2	UN3186	II	4.2	IB2	None	202	242	1 L	5 L	C	
				III	4.2	IB2	None	203	241	5 L	60 L	C	
G	Self-heating liquid, organic, n.o.s..	4.2	UN3183	II	4.2	IB2	None	202	242	1 L	5 L	C	
				III	4.2	IB2	None	203	241	5 L	60 L	C	
G	Self-heating liquid, toxic, inorganic, n.o.s..	4.2	UN3187	II	4.2, 6.1.	IB2	None	202	243	1 L	5 L	C	
				III	4.2, 6.1.	IB2	None	203	241	5 L	60 L	C	
G	Self-heating liquid, toxic, organic, n.o.s..	4.2	UN3184	II	4.2, 6.1.	IB2	None	202	243	1 L	5 L	C	
				III	4.2, 6.1.	IB2	None	203	241	5 L	60 L	C	
G	Self-heating solid, corrosive, inorganic, n.o.s..	4.2	UN3192	II	4.2, 8	IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	C	
				III	4.2, 8	IB8, IP3, T1, TP33	None	213	242	25 kg	100 kg	C	
G	Self-heating, solid, corrosive, organic, n.o.s..	4.2	UN3126	II	4.2, 8	IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	C	
				III	4.2, 8	IB8, IP3, T1, TP33	None	213	242	25 kg	100 kg	C	
G	Self-heating solid, inorganic, n.o.s..	4.2	UN3190	II	4.2	IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	C	
				III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	C	
G	Self-heating, solid, organic, n.o.s..	4.2	UN3088	II	4.2	IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	C	

	.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	C	.....
G	Self-heating, solid, oxidizing, n.o.s..	4.2	UN3127	.....	4.2, 5.1.		None	214	214	Forbidden	Forbidden		.....
G	Self-heating solid, toxic, inorganic, n.o.s..	4.2	UN3191	II	4.2, 6.1.	IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	C	.....
	.....	.....		III	4.2, 6.1.	IB8, IP3, T1, TP33	None	213	242	25 kg	100 kg	C	.....
G	Self-heating, solid, toxic, organic, n.o.s..	4.2	UN3128	II	4.2, 6.1.	IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	C	.....
	.....	.....		III	4.2, 6.1.	IB8, IP3, T1, TP33	None	213	242	25 kg	100 kg	C	.....
	Self-propelled vehicle, see Engines *or* Batteries *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
G	Self-reactive liquid type B	4.1	UN3221	II	4.1	53	None	224	None	Forbidden	Forbidden	D	52, 53
G	Self-reactive liquid type B, temperature controlled.	4.1	UN3231	II	4.1	53	None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive liquid type C	4.1	UN3223	II	4.1		None	224	None	5 L	10 L	D	52, 53
G	Self-reactive liquid type C, temperature controlled.	4.1	UN3233	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive liquid type D	4.1	UN3225	II	4.1		None	224	None	5 L	10 L	D	52, 53
G	Self-reactive liquid type D, temperature controlled.	4.1	UN3235	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive liquid type E	4.1	UN3227	II	4.1		None	224	None	10 L	25 L	D	52, 53
G	Self-reactive liquid type E, temperature controlled.	4.1	UN3237	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive liquid type F	4.1	UN3229	II	4.1		None	224	None	10 L	25 L	D	52, 53
G	Self-reactive liquid type F, temperature controlled.	4.1	UN3239	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive solid type B	4.1	UN3222	II	4.1	53	None	224	None	Forbidden	Forbidden	D	52, 53
G	Self-reactive solid type B, temperature controlled.	4.1	UN3232	II	4.1	53	None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive solid type C	4.1	UN3224	II	4.1		None	224	None	5 kg	10 kg	D	52, 53
G	Self-reactive solid type C, temperature controlled.	4.1	UN3234	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive solid type D	4.1	UN3226	II	4.1		None	224	None	5 kg	10 kg	D	52, 53
G	Self-reactive solid type D, temperature controlled.	4.1	UN3236	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive solid type E	4.1	UN3228	II	4.1		None	224	None	10 kg	25 kg	D	52, 53
G	Self-reactive solid type E, temperature controlled.	4.1	UN3238	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
G	Self-reactive solid type F	4.1	UN3230	II	4.1		None	224	None	10 kg	25 kg	D	52, 53
G	Self-reactive solid type F, temperature controlled.	4.1	UN3240	II	4.1		None	224	None	Forbidden	Forbidden	D	2, 52, 53
	Shale oil	3	UN1288	I	3	T11, TP1, TP8, TP27	None	201	243	1 L	30 L	B	.....
	.....	.....		II	3	IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	(8) Packaging (§ 173.***) Non-bulk	(8) Packaging (§ 173.***) Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	(9) Quantity limitations (see §§ 173.27 and 175.75) Cargo aircraft only	(10) Vessel stowage Location	(10) Vessel stowage Other
	Shaped charges, see Charges, shaped, *etc.*												
	Signal devices, hand	1.4G	UN0191	II	1.4G		None	62	None	Forbidden	75 kg	06	
	Signal devices, hand	1.4S	UN0373	II	1.4S		None	62	None	25 kg	100 kg	05	
	Signals, distress, *ship*	1.1G	UN0194	II	1.1G		None	62	None	Forbidden	Forbidden	07	
	Signals, distress, *ship*	1.3G	UN0195	II	1.3G		None	62	None	Forbidden	75 kg	07	
	Signals, highway, see Signal devices, hand.												
	Signals, railway track, explosive	1.1G	UN0192	II	1.1G		None	62	None	Forbidden	Forbidden	07	
	Signals, railway track, explosive	1.4S	UN0193	II	1.4S		None	62	None	25 kg	100 kg	05	
	Signals, railway track, explosive	1.3G	UN0492		1.3G		None	62	None	Forbidden	Forbidden	07	
	Signals, railway track, explosive	1.4G	UN0493		1.4G		None	62	None	Forbidden	75 kg	06	
	Signals, ship distress, water-activated, see Contrivances, water-activated, *etc.*												
	Signals, smoke	1.1G	UN0196	II	1.1G		None	62	None	Forbidden	Forbidden	07	
	Signals, smoke	1.4G	UN0197	II	1.4G		None	62	None	Forbidden	75 kg	06	
	Signals, smoke	1.2G	UN0313	II	1.2G		None	62	None	Forbidden	Forbidden	07	
	Signals, smoke	1.3G	UN0487	II	1.3G		None	62	None	Forbidden	Forbidden	07	
	Silane	2.1	UN2203		2.1		None	302	None	Forbidden	Forbidden	E	40, 57, 104
	Silicofluoric acid, see Fluorosilicic acid.												
	Silicon chloride, see Silicon tetrachloride.												
	Silicon powder, amorphous	4.1	UN1346	III	4.1	A1, IB8, IP3, T1, TP33	None	213	240	25 kg	100 kg	A	74
	Silicon tetrachloride	8	UN1818	II	8	A3, A6, B2, B6, IB2, T7, TP2, TP7	154	202	242	1 L	30 L	C	40
	Silicon tetrafluoride	2.3	UN1859		2.3, 8	2	None	302	None	Forbidden	Forbidden	D	40
	Silver acetylide (dry)	Forbidden											
	Silver arsenite	6.1	UN1683	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Silver azide (dry)	Forbidden											
	Silver chlorite (dry)	Forbidden											
	Silver cyanide	6.1	UN1684	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40, 52
	Silver fulminate (dry)	Forbidden											
	Silver nitrate	5.1	UN1493	II	5.1	IB8, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	

	Silver oxalate (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Silver picrate (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Silver picrate, wetted *with not less than 30 percent water, by mass*.	4.1	UN1347	I	4.1	23	None	211	None	Forbidden	Forbidden	D	28, 36
	Sludge, acid	8	UN1906	II	8	A3, A7, B2, IB2, N34, T8, TP2, TP12, TP28	None	202	242	Forbidden	30 L	C	14
D	Smokeless powder for small arms (*100 pounds or less*).	4.1	NA3178	I	4.1	16	None	171	None	Forbidden	7.3 kg	A	.....
	Soda lime *with more than 4 percent sodium hydroxide*.	8	UN1907	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	52.
	Sodium	4.3	UN1428	I	4.3	A7, A8, A19, A20, B9, B48, B68, IB4, IP1, N34, T9, TP7, TP33, TP46	None	211	244	Forbidden	15 kg	D	52
	Sodium aluminate, solid	8	UN2812	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....
	Sodium aluminate, solution	8	UN1819	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	52.
				III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	52.
	Sodium aluminum hydride	4.3	UN2835	II	4.3	A8, A19, A20, IB4, T3, TP33	151	212	242	Forbidden	50 kg	E	52
	Sodium ammonium vanadate	6.1	UN2863	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Sodium arsanilate	6.1	UN2473	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	Sodium arsenate	6.1	UN1685	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Sodium arsenite, aqueous solutions.	6.1	UN1686	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
	.....	.....		III	6.1	IB3, T4, TP2	153	203	241	60 L	220 L	A	.....
	Sodium arsenite, solid	6.1	UN2027	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Sodium azide	6.1	UN1687	II	6.1	IB8, IP2, IP4	153	212	242	25 kg	100 kg	A	36, 52, 91
	Sodium bifluoride, see Sodium hydrogendifluoride.	.....			.....		.....	.....	.....	.....	.....		.....
	Sodium bisulfite, solution, see Bisulfites, aqueous solutions, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
	Sodium borohydride	4.3	UN1426	I	4.3	N40	None	211	242	Forbidden	15 kg	E	52
	Sodium borohydride and sodium hydroxide solution, *with not more than 12 percent sodium borohydride and not more than 40 percent sodium hydroxide by mass*.	8	UN3320	II	8	B2, IB2, N34, T7, TP2	154	202	242	1 L	30 L	A	52
	.....	.....		III	8	B2, IB3, N34, T4, TP2	154	203	241	5 L	60 L	A	52

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Sodium bromate	5.1	UN1494	II	5.1	IB8, IP4, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Sodium cacodylate	6.1	UN1688	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	52
	Sodium carbonate peroxyhydrate.	5.1	UN3378	II	5.1	IB8, IP2, IP4, T3, TP33	152	212	240	5 kg	25 kg	A	13, 48, 75
				III	5.1	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	13, 48, 75
	Sodium chlorate	5.1	UN1495	II	5.1	A9, IB8, IP4, N34, T3, TP33	152	212	240	5 kg	25 kg	A	56, 58
	Sodium chlorate, aqueous solution.	5.1	UN2428	II	5.1	A2, IB2, T4, TP1	152	202	241	1 L	5 L	B	56, 58, 133
				III	5.1	A2, IB2, T4, TP1	152	203	241	2.5 L	30 L	B	56, 58, 69, 133
	Sodium chlorate mixed with dinitrotoluene, see Explosive blasting, type C.												
	Sodium chlorite	5.1	UN1496	II	5.1	A9, IB8, IP2, IP4, N34, T3, TP33	None	212	242	5 kg	25 kg	A	56, 58
	Sodium chloroacetate	6.1	UN2659	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
	Sodium cuprocyanide, solid	6.1	UN2316	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	52
	Sodium cuprocyanide, solution	6.1	UN2317	I	6.1	T14, TP2, TP13	None	201	243	1 L	30 L	B	40, 52
	Sodium cyanide, solid	6.1	UN1689	I	6.1	B69, B77, IB7, N74, N75, T6, TP33	None	211	242	5 kg	50 kg	B	52
	Sodium cyanide solution	6.1	UN3414	I	6.1	B69, B77, N74, N75, T14, TP2, TP13	None	201	243	1 L	30 L	B	52
				II	6.1	B69, B77, IB2, N74, N75, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	52
				III	6.1	B69, B77, IB3, N74, N75, T7, TP2, TP13, TP28	153	203	241	60 L	220 L	A	52
	Sodium dichloroisocyanurate or Sodium dichloro-s-triazinetrione, see Dichloroisocyanuric acid *etc.*												

Sodium dinitro-o-cresolate, *dry or wetted with less than 15 percent water, by mass*.	1.3C	UN0234	II	1.3C ..		None	62	None	Forbidden	Forbidden	10	5E
Sodium dinitro-o-cresolate, wetted *with not less than 10% water, by mass*.	4.1	UN3369	I	4.1	162, A8, A19, N41, N84	None	211	None	0.5 kg	0.5 kg	E	36
Sodium dinitro-o-cresolate, wetted *with not less than 15 percent water, by mass*.	4.1	UN1348	I	4.1, 6.1.	23, A8, A19, A20, N41	None	211	None	1 kg	15 kg	E	28, 36
Sodium dithionite *or* Sodium hydrosulfite.	4.2	UN1384	II	4.2	A19, A20, IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	E	13
Sodium fluoride, solid	6.1	UN1690	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
Sodium fluoride solution	6.1	UN3415	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	52
Sodium fluoroacetate	6.1	UN2629	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	E	.....
Sodium fluorosilicate	6.1	UN2674	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
Sodium hydrate, see Sodium hydroxide, solid.	.....			.....		.....	.....	.....	.....	.....		.....
Sodium hydride	4.3	UN1427	I	4.3	A19, N40	None	211	242	Forbidden	15 kg	E	52
Sodium hydrogendifluoride	8	UN2439	II	8	IB8, IP2, IP4, N3, N34, T3, TP33	154	212	240	15 kg	50 kg	A	12, 25, 40, 52
Sodium hydrosulfide, *with less than 25 percent water of crystallization*.	4.2	UN2318	II	4.2	A7, A19, A20, IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	A	52.
Sodium hydrosulfide *with not less than 25 percent water of crystallization*.	8	UN2949	II	8	A7, IB8, IP2, IP4, T7, TP2	154	212	240	15 kg	50 kg	A	52
Sodium hydrosulfite, *see* Sodium dithionite.	.....			.....		.....	.....	.....	.....	.....		.....
Sodium hydroxide, solid	8	UN1823	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52.
Sodium hydroxide solution	8	UN1824	II	8	B2, IB2, N34, T7, TP2	154	202	242	1 L	30 L	A	52.
			III	8	IB3, N34, T4, TP1	154	203	241	5 L	60 L	A	52.
Sodium hypochlorite, solution, see Hypochlorite solutions *etc.*	.....			.....		.....	.....	.....	.....	.....		.....
Sodium metal, liquid alloy, see Alkali metal alloys, liquid, n.o.s..	.....			.....		.....	.....	.....	.....	.....		.....
Sodium methylate	4.2	UN1431	II	4.2, 8	A7, A19, IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	B	.....
Sodium methylate solutions *in alcohol*.	3	UN1289	II	3, 8	IB2, T7, TP1, TP8	150	202	243	1 L	5 L	B	.....
.....	.....		III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	.....
Sodium monoxide	8	UN1825	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52.

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Sodium nitrate	5.1	UN1498	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Sodium nitrate and potassium nitrate mixtures.	5.1	UN1499	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Sodium nitrite	5.1	UN1500	III	5.1, 6.1.	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
	Sodium pentachlorophenate	6.1	UN2567	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Sodium perborate monohydrate	5.1	UN3377	III	5.1	IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	13, 48, 75
	Sodium perchlorate	5.1	UN1502	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Sodium permanganate	5.1	UN1503	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	D	56, 58, 138
	Sodium peroxide	5.1	UN1504	I	5.1	A20, IB5, IP1, N34	None	211	None	Forbidden	15 kg	B	13, 52, 66, 75
	Sodium peroxoborate, anhydrous.	5.1	UN3247	II	5.1	IB8, IP4, T3, TP33	152	212	240	5 kg	25 kg	A	13, 25
	Sodium persulfate	5.1	UN1505	III	5.1	A1, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
	Sodium phosphide	4.3	UN1432	I	4.3, 6.1.	A19, N40	None	211	None	Forbidden	15 kg	E	40, 52, 85
	Sodium picramate, *dry or wetted with less than 20 percent water, by mass.*	1.3C	UN0235	II	1.3C		None	62	None	Forbidden	Forbidden	10	5E
	Sodium picramate, wetted *with not less than 20 percent water, by mass.*	4.1	UN1349	I	4.1	23, A8, A19, N41	None	211	None	Forbidden	15 kg	E	28, 36
	Sodium picryl peroxide	Forbidden											
	Sodium potassium alloys, see Potassium sodium alloys.												
	Sodium selenate, see Selenates *or* Selenites.												
	Sodium sulfide, anhydrous *or* Sodium sulfide *with less than 30 percent water of crystallization.*	4.2	UN1385	II	4.2	A19, A20, IB6, IP2, N34, T3, TP33	None	212	241	15 kg	50 kg	A	52
	Sodium sulfide, hydrated *with not less than 30 percent water.*	8	UN1849	II	8	IB8, IP2, IP4, T3, TP33	154	212	240	15 kg	50 kg	A	52.
	Sodium superoxide	5.1	UN2547	I	5.1	A20, IB6, IP1, N34	None	211	None	Forbidden	15 kg	E	13, 52, 66, 75

	Sodium tetranitride	Forbidden											
G	Solids containing corrosive liquid, n.o.s..	8	UN3244	II	8	49, IB5, T3, TP33	154	212	240	15 kg	50 kg	B	40
G	Solids containing flammable liquid, n.o.s..	4.1	UN3175	II	4.1	47, IB6, IP2, T3, TP33	151	212	240	15 kg	50 kg	B	
G	Solids containing toxic liquid, n.o.s..	6.1	UN3243	II	6.1	48, IB2, T2, TP33	153	212	240	25 kg	100 kg	B	40
	Sounding devices, explosive	1.2F	UN0204	II	1.2F		None	62	None	Forbidden	Forbidden	08	
	Sounding devices, explosive	1.1F	UN0296	II	1.1F		None	62	None	Forbidden	Forbidden	08	
	Sounding devices, explosive	1.1D	UN0374	II	1.1D		None	62	None	Forbidden	Forbidden	07	
	Sounding devices, explosive	1.2D	UN0375	II	1.2D		None	62	None	Forbidden	Forbidden	07	
	Spirits of salt, see Hydrochloric acid.												
	Squibs, see Igniters *etc*												
	Stannic chloride, anhydrous	8	UN1827	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	C	
	Stannic chloride pentahydrate	8	UN2440	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
	Stannic phosphide	4.3	UN1433	I	4.3, 6.1.	A19, N40	None	211	242	Forbidden	15 kg	E	40, 52, 85
	Steel swarf, see Ferrous metal borings, *etc*.												
	Stibine	2.3	UN2676		2.3, 2.1.	1	None	304	None	Forbidden	Forbidden	D	40
	Storage batteries, wet, see Batteries, *wet etc*.												
	Strontium arsenite	6.1	UN1691	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Strontium chlorate	5.1	UN1506	II	5.1	A1, A9, IB8, IP2, IP4, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Strontium nitrate	5.1	UN1507	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	
	Strontium perchlorate	5.1	UN1508	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Strontium peroxide	5.1	UN1509	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	13, 52, 66, 75
	Strontium phosphide	4.3	UN2013	I	4.3, 6.1.	A19, N40	None	211	None	Forbidden	15 kg	E	40, 52, 85
	Strychnine *or* Strychnine salts	6.1	UN1692	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	Styphnic acid, *see* Trinitroresorcinol, *etc*.												
	Styrene monomer, stabilized	3	UN2055	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
G	Substances, explosive, n.o.s	1.1L	UN0357	II	1.1L		None	62	None	Forbidden	Forbidden		8E, 14E, 15E, 17E.

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
G	Substances, explosive, n.o.s	1.2L	UN0358	II	1.2L		None	62	None	Forbidden	Forbidden		8E, 14E, 15E, 17E.
G	Substances, explosive, n.o.s	1.3L	UN0359	II	1.3L		None	62	None	Forbidden	Forbidden		8E, 14E, 15E, 17E.
G	Substances, explosive, n.o.s	1.1A	UN0473	II	1.1A	111	None	62	None	Forbidden	Forbidden	12	
G	Substances, explosive, n.o.s	1.1C	UN0474	II	1.1C		None	62	None	Forbidden	Forbidden	10	
G	Substances, explosive, n.o.s	1.1D	UN0475	II	1.1D		None	62	None	Forbidden	Forbidden	10	
G	Substances, explosive, n.o.s	1.1G	UN0476	II	1.1G		None	62	None	Forbidden	Forbidden	08	
G	Substances, explosive, n.o.s	1.3C	UN0477	II	1.3C		None	62	None	Forbidden	Forbidden	10	
G	Substances, explosive, n.o.s	1.3G	UN0478	II	1.3G		None	62	None	Forbidden	Forbidden	08	
G	Substances, explosive, n.o.s	1.4C	UN0479	II	1.4C		None	62	None	Forbidden	75 kg	09	
G	Substances, explosive, n.o.s	1.4D	UN0480	II	1.4D		None	62	None	Forbidden	75 kg	09	
G	Substances, explosive, n.o.s	1.4S	UN0481	II	1.4S		None	62	None	25 kg	75 kg	05	
G	Substances, explosive, n.o.s	1.4G	UN0485	II	1.4G		None	62	None	Forbidden	75 kg	08	
G	Substances, explosive, very insensitive, n.o.s.*or* Substances,EVI, n.o.s.	1.5D	UN0482	II	1.5D		None	62	None	Forbidden	Forbidden	10	
	Substituted nitrophenol pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C.*	3	UN2780	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
				II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Substituted nitrophenol pesticides, liquid, toxic.	6.1	UN3014	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Substituted nitrophenol pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C.*	6.1	UN3013	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
				II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
				III	6.1, 3	B1, IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40

	Substituted nitrophenol pesticides, solid, toxic.	6.1	UN2779	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
	Sucrose octanitrate (dry)	Forbidden											
	Sulfamic acid	8	UN2967	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	
D	Sulfur	9	NA1350	III	9	30, IB8, IP2	None	None	240	No Limit	No Limit	A	19, 74
I	Sulfur	4.1	UN1350	III	4.1	30, IB8, IP3, T1, TP33	None	None	240	25 kg	100 kg	A	19, 74.
	Sulfur and chlorate, loose mixtures of.	Forbidden											
	Sulfur chlorides	8	UN1828	I	8	5, A3, A7, A10, B10, B77, N34, T20, TP2, TP12	None	201	243	Forbidden	2.5 L	C	40
	Sulfur dichloride, see Sulfur chlorides.												
	Sulfur dioxide	2.3	UN1079		2.3, 8	3, B14, T50, TP19	None	304	314, 315.	Forbidden	Forbidden	D	40
	Sulfur dioxide solution, see Sulfurous acid.												
	Sulfur hexafluoride	2.2	UN1080		2.2		306	304	314, 315.	75 kg	150 kg	A	
D	Sulfur, molten	9	NA2448	III	9	30, IB3, T1, TP3	None	213	247	Forbidden	Forbidden	C	61
I	Sulfur, molten	4.1	UN2448	III	4.1	30, IB1, T1, TP3	None	213	247	Forbidden	Forbidden	C	74
	Sulfur tetrafluoride	2.3	UN2418		2.3, 8	1	None	302	245	Forbidden	Forbidden	D	40, 52
+	Sulfur trioxide, stabilized	8	UN1829	I	8, 6.1	2, B9, B14, B32, B49, B74, B77, N34, T20, TP4, TP12, TP13, TP25, TP26, TP38, TP45	None	227	244	Forbidden	Forbidden	A	40
	Sulfuretted hydrogen, see Hydrogen sulfide.												
	Sulfuric acid, fuming *with less than 30 percent free sulfur trioxide.*	8	UN1831	I	8	A3, A7, B84, N34, T20, TP2, TP12, TP13	None	201	243	Forbidden	2.5 L	C	14, 40
	Sulfuric acid, fuming *with 30 percent or more free sulfur trioxide.*	8	UN1831	I	8, 6.1	2, B9, B14, B32, B74, B77, B84, N34, T20, TP2, TP12, TP13	None	227	244	Forbidden	Forbidden	C	14, 40
	Sulfuric acid, spent	8	UN1832	II	8	A3, A7, B2, B83, B84, IB2, N34, T8, TP2, TP12	None	202	242	Forbidden	30 L	C	14
	Sulfuric acid *with more than 51 percent acid.*	8	UN1830	II	8	A3, A7, B3, B83, B84, IB2, N34, T8, TP2, TP12	154	202	242	1 L	30 L	C	14

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	Sulfuric acid *with not more than 51% acid*.	8	UN2796	II	8	A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12	154	202	242	1 L	30 L	B	
	Sulfuric and hydrofluoric acid mixtures, *see* Hydrofluoric and sulfuric acid mixtures.												
	Sulfuric anhydride, see Sulfur trioxide, stabilized.												
	Sulfurous acid	8	UN1833	II	8	B3, IB2, T7, TP2	154	202	242	1 L	30 L	B	40
+	Sulfuryl chloride	8	UN1834	I	8, 6.1	1, B6, B9, B10, B14, B30, B74, B77, N34, T22, TP2, TP12, TP38, TP44	None	226	244	Forbidden	Forbidden	C	40
	Sulfuryl fluoride	2.3	UN2191		2.3	4	None	304	314, 315.	Forbidden	Forbidden	D	40
	Tars, liquid *including road asphalt and oils, bitumen and cut backs*.	3	UN1999	II	3	149, B13, IB2, T3, TP3, TP29	150	202	242	5 L	60 L	B	
				III	3	B1, B13, IB3, T1, TP3	150	203	242	60 L	220 L	A	
	Tear gas candles	6.1	UN1700	II	6.1, 4.1.		None	340	None	Forbidden	50 kg	D	40
	Tear gas cartridges, see Ammunition, tear-producing, *etc*.												
D	Tear gas devices *with more than 2 percent tear gas substances, by mass*.	6.1	NA1693	I	6.1		None	340	None	Forbidden	Forbidden	D	40
				II	6.1		None	340	None	Forbidden	Forbidden	D	40
	Tear gas devices, with not more than 2 percent tear gas substances, by mass, see Aerosols, *etc*.												
	Tear gas grenades, see Tear gas candles.												
G	Tear gas substances, liquid, n.o.s..	6.1	UN1693	I	6.1		None	201	None	Forbidden	Forbidden	D	40
				II	6.1	IB2	None	202	None	Forbidden	5 L	D	40
G	Tear gas substance, solid, n.o.s.	6.1	UN3448	I	6.1	T6, TP33	None	211	242	Forbidden	Forbidden	D	40
				II	6.1	IB8, IP2, IP4, T3, TP33	None	212	242	Forbidden	25 kg	D	40

Tellurium compound, n.o.s.	6.1	UN3284	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	.....
.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	.....
.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
Tellurium hexafluoride	2.3	UN2195	.....	2.3, 8	1	None	302	None	Forbidden	Forbidden	D	40
Terpene hydrocarbons, n.o.s.	3	UN2319	III	3	B1, IB3, T4, TP1, TP29	150	203	242	60 L	220 L	A	.....
Terpinolene	3	UN2541	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Tetraazido benzene quinone	Forbidden			.....		.....	.....	.....	.....	.....		.....
Tetrabromoethane	6.1	UN2504	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
1,1,2,2-Tetrachloroethane	6.1	UN1702	II	6.1	IB2, N36, T7, TP2	153	202	243	5 L	60 L	A	40
Tetrachloroethylene	6.1	UN1897	III	6.1	IB3, N36, T4, TP1	153	203	241	60 L	220 L	A	40
Tetraethyl dithiopyrophosphate	6.1	UN1704	II	6.1	IB2, T7, TP2	153	212	242	25 kg	100 kg	D	40
Tetraethyl silicate	3	UN1292	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Tetraethylammonium perchlorate (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
Tetraethylenepentamine	8	UN2320	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	52.
1,1,1,2-Tetrafluoroethane *or* Refrigerant gas R 134a.	2.2	UN3159	.....	2.2	T50	306	304	314, 315.	75 kg	150 kg	A	.....
Tetrafluoroethylene, stabilized	2.1	UN1081	.....	2.1		306	304	None	Forbidden	150 kg	E	40
Tetrafluoromethane *or* Refrigerant gas R 14.	2.2	UN1982	.....	2.2		None	302	None	75 kg	150 kg	A	.....
1,2,3,6-Tetrahydrobenzaldehyde	3	UN2498	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Tetrahydrofuran	3	UN2056	II	3	IB2, T4, TP1	None	202	242	5 L	60 L	B	.....
Tetrahydrofurfurylamine	3	UN2943	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Tetrahydrophthalic anhydrides *with more than 0.05 percent of maleic anhydride*.	8	UN2698	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....
1,2,3,6-Tetrahydropyridine	3	UN2410	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
Tetrahydrothiophene	3	UN2412	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
Tetramethylammonium hydroxide, solid.	8	UN3423	II	8	B2, IB8, IP2, IP4, T3, TP33	154	213	240	15 kg	50 kg	A	52
Tetramethylammonium hydroxide solution.	8	UN1835	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	A	52
.....	.....		III	8	B2, IB3, T7, TP2	154	203	241	5 L	60 L	A	52
Tetramethylene diperoxide dicarbamide.	Forbidden			.....		.....	.....	.....	.....	.....		.....
Tetramethylsilane	3	UN2749	I	3	A7, T14, TP2	None	201	243	Forbidden	30 L	D	.....
Tetranitro diglycerin	Forbidden			.....		.....	.....	.....	.....	.....		.....
Tetranitroaniline	1.1D	UN0207	II	1.1D		None	62	None	Forbidden	Forbidden	10	.....
+ Tetranitromethane	5.1	UN1510	I	5.1, 6.1.	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP44	None	227	None	Forbidden	Forbidden	D	40, 66
2,3,4,6-Tetranitrophenol	Forbidden			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	(8) Packaging (§ 173.***) Non-bulk	(8) Packaging (§ 173.***) Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	(9) Quantity limitations (see §§ 173.27 and 175.75) Cargo aircraft only	(10) Vessel stowage Location	(10) Vessel stowage Other
	2,3,4,6-Tetranitrophenyl methyl nitramine.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	2,3,4,6-Tetranitrophenylnitramine.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Tetranitroresorcinol (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	2,3,5,6-Tetranitroso-1,4-dinitrobenzene.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	2,3,5,6-Tetranitroso nitrobenzene (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Tetrapropylorthotitanate	3	UN2413	III	3	B1, IB3, T4, TP1	150	203	242	60 L	220 L	A	.....
	Tetrazene, *see* Guanyl nitrosaminoguanyltetrazene.	.....			.....		.....	.....	.....	.....	.....		.....
	Tetrazine (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Tetrazol-1-acetic acid	1.4C	UN0407	II	1.4C ..		None	62	None	Forbidden	75 kg	09	.....
	1H-Tetrazole	1.1D	UN0504	.....	1.1D ..		None	62	None	Forbidden	Forbidden	B	1E, 5E
	Tetrazolyl azide (dry)	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Tetryl, *see* Trinitrophenylmethylnitramine.	.....			.....		.....	.....	.....	.....	.....		.....
A I W	Textile waste, wet	4.2	UN1857	III	4.2		151	213	240	Forbidden	Forbidden	A	.....
	Thallium chlorate	5.1	UN2573	II	5.1, 6.1.	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
	Thallium compounds, n.o.s.	6.1	UN1707	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	Thallium nitrate	6.1	UN2727	II	6.1, 5.1.	IB6, IP2, T3, TP33	153	212	242	5 kg	25 kg	A	.....
	4-Thiapentanal	6.1	UN2785	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	D	25, 49
	Thioacetic acid	3	UN2436	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
	Thiocarbamate pesticide, liquid, flammable, toxic, *flash point less than 23 degrees C*.	3	UN2772	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP13, TP27	150	202	243	1 L	60 L	B	40
	Thiocarbamate pesticide, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN3005	I	6.1, 3	T14, TP2, TP13	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40

Thiocarbamate pesticide, liquid, toxic.	6.1	UN3006	I	6.1	T14, TP2, TP13	None	201	243	1 L	30 L	B	40
.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
Thiocarbamate pesticides, solid, toxic.	6.1	UN2771	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40
.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
Thiocarbonylchloride, see Thiophosgene.	.....			.....		.....	.....	.....	.....	.....		.....
Thioglycol	6.1	UN2966	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
Thioglycolic acid	8	UN1940	II	8	A7, B2, IB2, N34, T7, TP2	154	202	242	1 L	30 L	A	.....
Thiolactic acid	6.1	UN2936	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
Thionyl chloride	8	UN1836	I	8	B6, B10, N34, T10, TP2, TP12, TP13	None	201	243	Forbidden	Forbidden	C	40
Thiophene	3	UN2414	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	40
+ Thiophosgene	6.1	UN2474	II	6.1	2, B9, B14, B32, B74, N33, N34, T20, TP2, TP38, TP45	None	227	244	Forbidden	Forbidden	B	40, 52
Thiophosphoryl chloride	8	UN1837	II	8	A3, A7, B2, B8, B25, IB2, N34, T7, TP2	None	202	242	Forbidden	30 L	C	40
Thiourea dioxide	4.2	UN3341	II	4.2	IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	D	.....
.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	D	.....
Tin chloride, fuming, see Stannic chloride, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....
Tin perchloride or Tin tetrachloride, see Stannic chloride, anhydrous.	.....			.....		.....	.....	.....	.....	.....		.....
Tinctures, medicinal	3	UN1293	II	3	IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	.....
.....	.....		III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Tinning flux, see Zinc chloride	.....			.....		.....	.....	.....	.....	.....		.....
Tires and tire assemblies, *see* Air, compressed *or* Nitrogen, compressed.	.....		.....	.....	.....	.....	.....	.....	.....	.....		.....
Titanium disulphide	4.2	UN3174	III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	A	.....
Titanium hydride	4.1	UN1871	II	4.1	A19, A20, IB4, N34, T3, TP33	None	212	241	15 kg	50 kg	E	.....
Titanium powder, dry	4.2	UN2546	I	4.2		None	211	242	Forbidden	Forbidden	D	.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	.....	.....		II	4.2	A19, A20, IB6, IP2, N5, N34, T3, TP33	None	212	241	15 kg	50 kg	D	.....
	.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	D	.....
	Titanium powder, wetted *with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns*.	4.1	UN1352	II	4.1	A19, A20, IB6, IP2, N34, T3, TP33	None	212	240	15 kg	50 kg	E	74
	Titanium sponge granules *or* Titanium sponge powders.	4.1	UN2878	III	4.1	A1, IB8, IP3, T1, TP33	None	213	240	25 kg	100 kg	D	74
+	Titanium tetrachloride	8	UN1838	II	8, 6.1	2, B7, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	C	40
	Titanium trichloride mixtures	8	UN2869	II	8	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	240	15 kg	50 kg	A	40
	.....	.....		III	8	A7, IB8, IP3, N34, T1, TP33	154	213	240	25 kg	100 kg	A	40
	Titanium trichloride, pyrophoric *or* Titanium trichloride mixtures, pyrophoric.	4.2	UN2441	I	4.2, 8	N34	None	181	244	Forbidden	Forbidden	D	40
	TNT mixed with aluminum, see Tritonal.	.....			.....		.....	.....	.....	.....	.....		.....
	TNT, *see* Trinitrotoluene, *etc*	.....			.....		.....	.....	.....	.....	.....		.....
	Toluene	3	UN1294	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	.....
+	Toluene diisocyanate	6.1	UN2078	II	6.1	IB2, T7, TP2, TP13	153	202	243	5 L	60 L	D	25, 40
	Toluene sulfonic acid, see Alkyl, *or* Aryl sulfonic acid *etc*.	.....			.....		.....	.....	.....	.....	.....		.....
+	Toluidines, liquid	6.1	UN1708	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
	Toluidines, solid	6.1	UN3451	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	2,4-Toluylenediamine, solid *or* 2,4-Toluenediamine, solid.	6.1	UN1709	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
	2,4-Toluylenediamine solution *or* 2,4-Toluenediamine solution.	6.1	UN3418	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....

	Torpedoes, liquid fueled, *with inert head*.	1.3J	UN0450	II	1.3J ...		.....	62	None	Forbidden	Forbidden	04	23E
	Torpedoes, liquid fueled, *with or without bursting charge*.	1.1J	UN0449	II	1.1J ...		.....	62	None	Forbidden	Forbidden	04	23E
	Torpedoes *with bursting charge*	1.1E	UN0329	II	1.1E ...		.....	62	None	Forbidden	Forbidden	03	.....
	Torpedoes *with bursting charge*	1.1F	UN0330	II	1.1F ...		.....	62	None	Forbidden	Forbidden	08	.....
	Torpedoes *with bursting charge*	1.1D	UN0451	II	1.1D ..		.....	62	None	Forbidden	Forbidden	03	.....
G	Toxic by inhalation liquid, n.o.s. *with an inhalation toxicity lower than or equal to 200 ml/m3 and saturated vapor concentration greater than or equal to 500 LC50*.	6.1	UN3381	I	6.1	1, B9, B14, B30, B72, T22, TP2, TP13, TP27, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, n.o.s. *with an inhalation toxicity lower than or equal to 1000ml/m3 and saturated vapor concentration greater than or equal to 10 LC50*.	6.1	UN3382	I	6.1	2, B9, B14, B32, B74, T20, TP2, TP13, TP27, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, flammable, n.o.s. *with an inhalation toxicity lower than or equal to 200 ml/m3 and saturated vapor concentration greater than or equal to 500 LC50*.	6.1	UN3383	I	6.1, 3	1, B9, B14, B30, B72, T22, TP2, TP13, TP27, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, flammable, n.o.s. *with an inhalation toxicity lower than or equal to 1000 ml/m3 and saturated vapor concentration greater than or equal to 10 LC50*.	6.1	UN3384	I	6.1, 3	2, B9, B14, B32, B74, T20, TP2, TP13, TP27, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, water-reactive, n.o.s. *with an inhalation toxicity lower than or equal to 200 ml/m3 and saturated vapor concentration greater than or equal to 500 LC50*.	6.1	UN3385	I	6.1, 4.3.	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, water-reactive, n.o.s. *with an inhalation toxicity lower than or equal to 1000 ml/m3 and saturated vapor concentration greater than or equal to 10 LC50*.	6.1	UN3386	I	6.1, 4.3.	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP44	None	227	244	Forbidden	Forbidden	D	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
G	Toxic by inhalation liquid, oxidizing, n.o.s. *with an inhalation toxicity lower than or equal to 200 ml/m3 and saturated vapor concentration greater than or equal to 500 LC50.*	6.1	UN3387	I	6.1, 5.1.	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, oxidizing, n.o.s. *with an inhalation toxicity lower than or equal to 1000 ml/m3 and saturated vapor concentration greater than or equal to 10 LC50.*	6.1	UN3388	I	6.1, 5.1.	2, B9, B14, B32, T20, TP2, TP13, TP38, TP44	None	227	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, corrosive, n.o.s. *with an inhalation toxicity lower than or equal to 200 ml/m3 and saturated vapor concentration greater than or equal to 500 LC50.*	6.1	UN3389	I	6.1, 8	1, B9, B14, B30, B72, T22, TP2, TP13, TP27, TP38, TP44	None	226	244	Forbidden	Forbidden	D	40
G	Toxic by inhalation liquid, corrosive, n.o.s. *with an inhalation toxicity lower than or equal to 1000 ml/m3 and saturated vapor concentration greater than or equal to 10 LC50.*	6.1	UN3390	I	6.1, 8	2, B9, B14, B32, B74, T20, TP2, TP13, TP27, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
G	Toxic liquid, corrosive, inorganic, n.o.s..	6.1	UN3289	I	6.1, 8	T14, TP2, TP13, TP27	None	201	243	0.5 L	2.5 L	A	.....
	.....	.....		II	6.1, 8	IB2, T11, TP2, TP27	153	202	243	1 L	30 L	A	.....
G	Toxic liquid, inorganic, n.o.s.	6.1	UN3287	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	A	.....
	.....	.....		II	6.1	IB2, T11, TP2, TP27	153	202	243	5 L	60 L	A	.....
	.....	.....		III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	.....
G	Toxic liquids, corrosive, organic, n.o.s..	6.1	UN2927	I	6.1, 8	T14, TP2, TP13, TP27	None	201	243	0.5 L	2.5 L	B	40
	.....	.....		II	6.1, 8	IB2, T11, TP2, TP27	153	202	243	1 L	30 L	B	40

G	Toxic liquids, flammable, organic, n.o.s..	6.1	UN2929	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
G	Toxic, liquids, organic, n.o.s.	6.1	UN2810	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP1, TP28	153	203	241	60 L	220 L	A	40
G	Toxic liquids, oxidizing, n.o.s.	6.1	UN3122	I	6.1, 5.1.	A4	None	201	243	Forbidden	2.5 L	C	.....
	.....	.....		II	6.1, 5.1.	IB2	153	202	243	1 L	5 L	C	.....
G	Toxic liquids, water-reactive, n.o.s..	6.1	UN3123	I	6.1, 4.3.	A4	None	201	243	Forbidden	1 L	E	40
	.....	.....		II	6.1, 4.3.	IB2	None	202	243	1 L	5 L	E	40
G	Toxic solid, corrosive, inorganic, n.o.s..	6.1	UN3290	I	6.1, 8	IB7, T6, TP33	None	211	242	1 kg	25 kg	A	.....
	.....	.....		II	6.1, 8	IB6, IP2, T3, TP33	153	212	242	15 kg	50 kg	A	.....
G	Toxic solid, inorganic, n.o.s.	6.1	UN3288	I	6.1	IB7, T6, TP33	None	211	242	5 kg	50 kg	A	.....
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	.....
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
G	Toxic solids, corrosive, organic, n.o.s..	6.1	UN2928	I	6.1, 8	IB7, T6, TP33	None	211	242	1 kg	25 kg	B	40
	.....	.....		II	6.1, 8	IB6, IP2, T3, TP33	153	212	242	15 kg	50 kg	B	40
G	Toxic solids, flammable, organic, n.o.s..	6.1	UN2930	I	6.1, 4.1.	IB6, T6, TP33	None	211	242	1 kg	15 kg	B	.....
	.....	.....		II	6.1, 4.1.	IB8, IP2, IP4, T3, TP33	153	212	242	15 kg	50 kg	B	.....
G	Toxic solids, organic, n.o.s.	6.1	UN2811	I	6.1	IB7, T6, TP33	None	211	242	5 kg	50 kg	B	.....
	.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	.....
	.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	.....
G	Toxic solids, oxidizing, n.o.s.	6.1	UN3086	I	6.1, 5.1.	T6, TP33	None	211	242	1 kg	15 kg	C	.....
	.....	.....		II	6.1, 5.1.	IB6, IP2, T3, TP33	153	212	242	15 kg	50 kg	C	.....
G	Toxic solids, self-heating, n.o.s.	6.1	UN3124	I	6.1, 4.2.	A5, T6, TP33	None	211	242	5 kg	15 kg	D	40
	.....	.....		II	6.1, 4.2.	IB6, IP2, T3, TP33	None	212	242	15 kg	50 kg	D	40
G	Toxic solids, water-reactive, n.o.s..	6.1	UN3125	I	6.1, 4.3.	A5, T6, TP33	None	211	242	5 kg	15 kg	D	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	.....	.....		II	6.1, 4.3.	IB6, IP2, T3, TP33	153	212	242	15 kg	50 kg	D	40
G	Toxins, extracted from living sources, liquid, n.o.s..	6.1	UN3172	I	6.1	141	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	141, IB2	None	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	141, IB3	153	203	241	60 L	220 L	B	40
G	Toxins, extracted from living sources, solid, n.o.s..	6.1	UN3462	I	6.1	141, IB7, IP1, T6, TP33	None	211	243	5 kg	50 kg	B	.....
				II	6.1	141, IB8, IP2, IP4, T3 TP33	None	212	243	25 kg	100 kg	B	.....
				III	6.1	141, IB8, IP3, T1 TP33	153	213	241	100 kg	200 kg	A	.....
D	Toy Caps	1.4S	NA0337	II	1.4S ...		None	62	None	25 kg	100 kg	05	.....
	Tracers for ammunition	1.3G	UN0212	II	1.3G ..		None	62	None	Forbidden	Forbidden	07	.....
	Tracers for ammunition	1.4G	UN0306	II	1.4G ..		None	62	None	Forbidden	75 kg	06	.....
	Tractors, see Vehicle, *etc*	.....			.....		.....	.....	.....	.....	.....		.....
	Tri-(b-nitroxyethyl) ammonium nitrate.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Triallyl borate	6.1	UN2609	III	6.1	IB3	153	203	241	60 L	220 L	A	13
	Triallylamine	3	UN2610	III	3, 8	B1, IB3, T4, TP1	None	203	242	5 L	60 L	A	40
	Triazine pesticides, liquid, flammable, toxic, *flash point less than 23 degrees C*.	3	UN2764	I	3, 6.1	T14, TP2, TP13, TP27	None	201	243	Forbidden	30 L	B	40
	.....	.....		II	3, 6.1	IB2, T11, TP2, TP13, TP27	150	202	243	1 L	60 L	B	40
	Triazine pesticides, liquid, toxic	6.1	UN2998	I	6.1	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1	IB3, T7, TP2, TP28	153	203	241	60 L	220 L	A	40
	Triazine pesticides, liquid, toxic, flammable, *flash point not less than 23 degrees C*.	6.1	UN2997	I	6.1, 3	T14, TP2, TP13, TP27	None	201	243	1 L	30 L	B	40
	.....	.....		II	6.1, 3	IB2, T11, TP2, TP13, TP27	153	202	243	5 L	60 L	B	40
	.....	.....		III	6.1, 3	IB3, T7, TP2, TP28	153	203	242	60 L	220 L	A	40
	Triazine pesticides, solid, toxic ..	6.1	UN2763	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	40

.....	.....		II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	40
.....	.....		III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
Tributylamine	6.1	UN2542	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	.....
Tributylphosphane	4.2	UN3254	I	4.2	T21, TP7, TP33	None	211	242	Forbidden	Forbidden	D	136
Trichloro-s-triazinetrione dry, with more than 39 percent available chlorine, see Trichloroisocyanuric acid, dry.	.....			.....		.....	.....	.....	.....	.....		.....
Trichloroacetic acid	8	UN1839	II	8	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	240	15 kg	50 kg	A	.....
Trichloroacetic acid, solution	8	UN2564	II	8	A3, A6, A7, B2, IB2, N34, T7, TP2	154	202	242	1 L	30 L	B	.....
.....	.....		III	8	A3, A6, A7, IB3, N34, T4, TP1	154	203	241	5 L	60 L	B	8
+ Trichloroacetyl chloride	8	UN2442	II	8, 6.1	2, B9, B14, B32, B74, N34, T20, TP2, TP38, TP45	None	227	244	Forbidden	Forbidden	D	40
Trichlorobenzenes, liquid	6.1	UN2321	III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	.....
Trichlorobutene	6.1	UN2322	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	25, 40
1,1,1-Trichloroethane	6.1	UN2831	III	6.1	IB3, N36, T4, TP1	153	203	241	60 L	220 L	A	40
Trichloroethylene	6.1	UN1710	III	6.1	IB3, N36, T4, TP1	153	203	241	60 L	220 L	A	40
Trichloroisocyanuric acid, dry	5.1	UN2468	II	5.1	IB8, IP4, T3, TP33	152	212	240	5 kg	25 kg	A	13
Trichloromethyl perchlorate	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trichlorosilane	4.3	UN1295	I	4.3, 3, 8.	N34, T14, TP2, TP7, TP13	None	201	244	Forbidden	Forbidden	D	21, 28, 40, 49, 100
Tricresyl phosphate *with more than 3 percent ortho isomer*.	6.1	UN2574	II	6.1	A3, IB2, N33, N34, T7, TP2	153	202	243	5 L	60 L	A	.....
Triethyl phosphite	3	UN2323	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	.....
Triethylamine	3	UN1296	II	3, 8	IB2, T7, TP1	150	202	243	1 L	5 L	B	40
Triethylenetetramine	8	UN2259	II	8	B2, IB2, T7, TP2	154	202	242	1 L	30 L	B	40, 52
Trifluoroacetic acid	8	UN2699	I	8	A3, A6, A7, B4, N3, N34, N36, T10, TP2, TP12	None	201	243	0.5 L	2.5 L	B	12, 40
Trifluoroacetyl chloride	2.3	UN3057	.....	2.3, 8	2, B7, B9, B14, T50, TP21	None	304	314, 315.	Forbidden	Forbidden	D	40
Trifluorochloroethylene, stabilized.	2.3	UN1082	.....	2.3, 2.1.	3, B14, T50	None	304	314, 315.	Forbidden	Forbidden	D	40
Trifluoromethane *or* Refrigerant gas R 23.	2.2	UN1984	.....	2.2		306	304	314, 315.	75 kg	150 kg	A	.....
Trifluoromethane, refrigerated liquid.	2.2	UN3136	.....	2.2	T75, TP5	306	None	314, 315.	50 kg	500 kg	D	.....
1,1,1-Trifluoroethane *or* Refrigerant gas, R 143a.	2.1	UN2035	.....	2.1	T50	306	304	314, 315.	Forbidden	150 kg	B	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***) Exceptions	Non-bulk	Bulk	(9) Quantity limitations (see §§ 173.27 and 175.75) Passenger aircraft/rail	Cargo aircraft only	(10) Vessel stowage Location	Other
	2-Trifluoromethylaniline	6.1	UN2942	III	6.1	IB3	153	203	241	60 L	220 L	A	
	3-Trifluoromethylaniline	6.1	UN2948	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	40
	Triformoxime trinitrate	Forbidden											
	Triisobutylene	3	UN2324	III	3	B1, IB3, T4, TP1	150	203	242	60 L	220 L	A	
	Triisopropyl borate	3	UN2616	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	A	
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
D	Trimethoxysilane	6.1	NA9269	I	6.1, 3	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	E	40
	Trimethyl borate	3	UN2416	II	3	IB2, T7, TP1	150	202	242	5 L	60 L	B	
	Trimethyl phosphite	3	UN2329	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	1,3,5-Trimethyl-2,4,6-trinitrobenzene.	Forbidden											
	Trimethylacetyl chloride	6.1	UN2438	I	6.1, 8, 3.	2, B3, B9, B14, B32, B74, N34, T20, TP2, TP13, TP38, TP45	None	227	244	Forbidden	Forbidden	D	25, 40
	Trimethylamine, anhydrous	2.1	UN1083		2.1	N87, T50	306	304	314, 315.	Forbidden	150 kg	B	40
	Trimethylamine, aqueous solutions *with not more than 50 percent trimethylamine by mass*.	3	UN1297	I	3, 8	T11, TP1	None	201	243	0.5 L	2.5 L	D	40, 135
				II	3, 8	B1, IB2, T7, TP1	150	202	243	1 L	5 L	B	40, 41
				III	3, 8	B1, IB3, T7, TP1	150	203	242	5 L	60 L	A	40, 41
	1,3,5-Trimethylbenzene	3	UN2325	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Trimethylchloro-silane	3	UN1298	II	3, 8	A3, A7, B77, IB2, N34, T7, TP2, TP13	None	202	243	1 L	5 L	E	40.
	Trimethylcyclohexylamine	8	UN2326	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Trimethylene glycol diperchlorate.	Forbidden											
	Trimethylhexamethylene diisocyanate.	6.1	UN2328	III	6.1	IB3, T4, TP2, TP13	153	203	241	60 L	220 L	B	
	Trimethylhexamethylenediamines.	8	UN2327	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
	Trimethylol nitromethane trinitrate.	Forbidden											
	Trinitro-meta-cresol	1.1D	UN0216	II	1.1D		None	62	None	Forbidden	Forbidden	10	5E
	2,4,6-Trinitro-1,3-diazobenzene	Forbidden											

2,4,6-Trinitro-1,3,5-triazido benzene (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trinitroacetic acid	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trinitroacetonitrile	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trinitroamine cobalt	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trinitroaniline *or* Picramide	1.1D	UN0153	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitroanisole	1.1D	UN0213	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitrobenzene, wetted, *with not less than 10% water, by mass.*	4.1	UN3367	I	4.1	162, A8, A19, N41, N84	None	211	None	0.5 kg	0.5 kg	E	36
Trinitrobenzene, *dry or wetted with less than 30 percent water, by mass.*	1.1D	UN0214	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitrobenzene, wetted *with not less than 30 percent water, by mass.*	4.1	UN1354	I	4.1	23, A2, A8, A19, N41	None	211	None	0.5 kg	0.5 kg	E	28
Trinitrobenzenesulfonic acid	1.1D	UN0386	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	5E
Trinitrobenzoic acid, *dry or wetted with less than 30 percent water, by mass.*	1.1D	UN0215	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitrobenzoic acid, wetted *with not less than 10% water by mass.*	4.1	UN3368	I	4.1	162, A8, A19, N41, N84	None	211	None	0.5 kg	0.5 kg	E	36
Trinitrobenzoic acid, wetted *with not less than 30 percent water, by mass.*	4.1	UN1355	I	4.1	23, A2, A8, A19, N41	None	211	None	0.5 kg	0.5 kg	E	28
Trinitrochlorobenzene *or* Picryl chloride.	1.1D	UN0155	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitrochlorobenzene (picryl chloride), wetted, *with not less than 10% water by mass.*	4.1	UN3365	I	4.1	162, A8, A19, N41, N84	None	211	None	0.5 kg	0.5 kg	E	36
Trinitroethanol	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trinitroethylnitrate	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trinitrofluorenone	1.1D	UN0387	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitromethane	Forbidden			.....		.....	.....	.....	.....	.....		.....
1,3,5-Trinitronaphthalene	Forbidden			.....		.....	.....	.....	.....	.....		.....
Trinitronaphthalene	1.1D	UN0217	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitrophenetole	1.1D	UN0218	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
Trinitrophenol (picric acid), wetted, *with not less than 10 percent water by mass.*	4.1	UN3364	I	4.1	162, A8, A19, N41, N84	None	211	None	0.5 kg	0.5 kg	E	36
Trinitrophenol *or* Picric acid, *dry or wetted with less than 30 percent water, by mass.*	1.1D	UN0154	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	5E
Trinitrophenol, wetted *with not less than 30 percent water, by mass.*	4.1	UN1344	I	4.1	23, A8, A19, N41	None	211	None	1 kg	15 kg	E	28, 36
2,4,6-Trinitrophenyl guanidine (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
2,4,6-Trinitrophenyl nitramine	Forbidden			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	2,4,6-Trinitrophenyl trimethylol methyl nitramine trinitrate (dry).	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Trinitrophenylmethylnitramine *or* Tetryl.	1.1D	UN0208	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	Trinitroresorcinol *or* Styphnic acid, *dry or wetted with less than 20 percent water, or mixture of alcohol and water, by mass.*	1.1D	UN0219	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	5E
	Trinitroresorcinol, wetted *or* Styphnic acid, wetted *with not less than 20 percent water, or mixture of alcohol and water by mass.*	1.1D	UN0394	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	5E
	2,4,6-Trinitroso-3-methyl nitraminoanisole.	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Trinitrotetramine cobalt nitrate ...	Forbidden			.....		.....	.....	.....	.....	.....		.....
	Trinitrotoluene and Trinitrobenzene mixtures *or* TNT and trinitrobenzene mixtures *or* TNT and hexanitrostilbene mixtures *or* Trinitrotoluene and hexanitrostilnene mixtures.	1.1D	UN0388	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	Trinitrotoluene mixtures containing Trinitrobenzene and Hexanitrostilbene *or* TNT mixtures containing trinitrobenzene and hexanitrostilbene.	1.1D	UN0389	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	Trinitrotoluene *or* TNT, *dry or wetted with less than 30 percent water, by mass.*	1.1D	UN0209	II	1.1D ..		None	62	None	Forbidden	Forbidden	10	.....
	Trinitrotoluene (TNT), wetted, *with not less than 10 percent water by mass.*	4.1	UN3366	I	4.1	162, A8, A19, N41, N84	None	211	None	0.5 kg	0.5 kg	E	36
	Trinitrotoluene, wetted *with not less than 30 percent water, by mass.*	4.1	UN1356	I	4.1	23, A2, A8, A19, N41	None	211	None	0.5 kg	0.5 kg	E	28

Tripropylamine	3	UN2260	III	3, 8	B1, IB3, T4, TP1	150	203	242	5 L	60 L	A	40
Tripropylene	3	UN2057	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
			III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Tris-(1-aziridinyl)phosphine oxide, solution.	6.1	UN2501	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	
			III	6.1	IB3, T4, TP1	153	203	241	60 L	220 L	A	
Tris, bis-bifluoroamino diethoxy propane (TVOPA).	Forbidden											
Tritonal	1.1D	UN0390	II	1.1D		None	62	None	Forbidden	Forbidden	10	
Tungsten hexafluoride	2.3	UN2196		2.3, 8	2, N86	None	338	None	Forbidden	Forbidden	D	40
Turpentine	3	UN1299	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Turpentine substitute	3	UN1300	I	3	T11, TP1, TP8, TP27	None	201	243	1 L	30 L	B	
			II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
			III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Undecane	3	UN2330	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
Urea hydrogen peroxide	5.1	UN1511	III	5.1, 8	A1, A7, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	13
Urea nitrate, *dry or wetted with less than 20 percent water, by mass*.	1.1D	UN0220	II	1.1D	119	None	62	None	Forbidden	Forbidden	10	
Urea nitrate, wetted, *with not less than 10 percent water by mass*.	4.1	UN3370	I	4.1	162, A8, A19, N41, N84	None	211	None	0.5 kg	0.5 kg	E	36
Urea nitrate, wetted *with not less than 20 percent water, by mass*.	4.1	UN1357	I	4.1	23, 39, A8, A19, N41	None	211	None	1 kg	15 kg	E	28, 36
Urea peroxide, see Urea hydrogen peroxide.												
Valeraldehyde	3	UN2058	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
Valeric acid, see Corrosive liquids, n.o.s..												
Valeryl chloride	8	UN2502	II	8, 3	A3, A6, A7, B2, IB2, N34, T7, TP2	154	202	243	1 L	30 L	C	40
Vanadium compound, n.o.s.	6.1	UN3285	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	B	
			II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	B	
			III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	
Vanadium oxytrichloride	8	UN2443	II	8	A3, A6, A7, B2, B16, IB2, N34, T7, TP2	154	202	242	Forbidden	30 L	C	40
Vanadium pentoxide, *non-fused form*.	6.1	UN2862	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	40
Vanadium tetrachloride	8	UN2444	I	8	A3, A6, A7, B4, N34, T10, TP2	None	201	243	Forbidden	2.5 L	C	40
Vanadium trichloride	8	UN2475	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	40

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Vanadyl sulfate	6.1	UN2931	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Vehicle, flammable gas powered	9	UN3166		9	135, 157	220	220	220	Forbidden	No limit	A	
	Vehicle, flammable liquid powered.	9	UN3166		9	135, 157	220	220	220	No limit	No limit	A	
	Very signal cartridge, see Cartridges, signal.												
	Vinyl acetate, stabilized	3	UN1301	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Vinyl bromide, stabilized	2.1	UN1085		2.1	N86, T50	306	304	314, 315.	Forbidden	150 kg	B	40
	Vinyl butyrate, stabilized	3	UN2838	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Vinyl chloride, stabilized	2.1	UN1086		2.1	21, B44, N86, T50	306	304	314, 315.	Forbidden	150 kg	B	40
	Vinyl chloroacetate	6.1	UN2589	II	6.1, 3	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	Vinyl ethyl ether, stabilized	3	UN1302	I	3	A3, T11, TP2	None	201	243	1 L	30 L	D	
	Vinyl fluoride, stabilized	2.1	UN1860		2.1	N86	306	304	314, 315.	Forbidden	150 kg	E	40
	Vinyl isobutyl ether, stabilized	3	UN1304	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
	Vinyl methyl ether, stabilized	2.1	UN1087		2.1	B44, T50	306	304	314, 315.	Forbidden	150 kg	B	40
	Vinyl nitrate polymer	Forbidden											
	Vinylidene chloride, stabilized	3	UN1303	I	3	T12, TP2, TP7	150	201	243	1 L	30 L	E	40
	Vinylpyridines, stabilized	6.1	UN3073	II	6.1, 3, 8.	IB1, T7, TP2, TP13	153	202	243	1 L	30 L	B	21, 40, 52.
	Vinyltoluenes, stabilized	3	UN2618	III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Vinyltrichlorosilane, stabilized	3	UN1305	I	3, 8	A3, A7, B6, N34, T11, TP2, TP13	None	201	243	Forbidden	2.5 L	B	40
	Warheads, rocket *with burster or expelling charge*.	1.4D	UN0370	II	1.4D		None	62	None	Forbidden	75 kg	02	
	Warheads, rocket *with burster or expelling charge*.	1.4F	UN0371	II	1.4F		None	62	None	Forbidden	Forbidden	08	
	Warheads, rocket *with bursting charge*.	1.1D	UN0286	II	1.1D		None	62	None	Forbidden	Forbidden	03	
	Warheads, rocket *with bursting charge*.	1.2D	UN0287	II	1.2D		None	62	None	Forbidden	Forbidden	03	
	Warheads, rocket *with bursting charge*.	1.1F	UN0369	II	1.1F		None	62	None	Forbidden	Forbidden	08	
	Warheads, torpedo *with bursting charge*.	1.1D	UN0221	II	1.1D		None	62	None	Forbidden	Forbidden	03	
G	Water-reactive liquid, corrosive, n.o.s..	4.3	UN3129	I	4.3, 8		None	201	243	Forbidden	1 L	D	

	.....	.....		II	4.3, 8	IB1	None	202	243	1 L	5 L	E	85
	.....	.....		III	4.3, 8	IB2	None	203	242	5 L	60 L	E	.....
G	Water-reactive liquid, n.o.s.	4.3	UN3148	I	4.3		None	201	244	Forbidden	1 L	E	40
	.....	.....		II	4.3	IB1	None	202	243	1 L	5 L	E	40
	.....	.....		III	4.3	IB2	None	203	242	5 L	60 L	E	40
G	Water-reactive liquid, toxic, n.o.s..	4.3	UN3130	I	4.3, 6.1.	A4	None	201	243	Forbidden	1 L	D	.....
	.....	.....		II	4.3, 6.1.	IB1	None	202	243	1 L	5 L	E	85
	.....	.....		III	4.3, 6.1.	IB2	None	203	242	5 L	60 L	E	85
G	Water-reactive solid, corrosive, n.o.s..	4.3	UN3131	I	4.3, 8	IB4, IP1, N40	None	211	242	Forbidden	15 kg	D	.....
	.....	.....		II	4.3, 8	IB6, IP2, T3, TP33	151	212	242	15 kg	50 kg	E	85
	.....	.....		III	4.3, 8	IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	E	85
G	Water-reactive solid, flammable, n.o.s..	4.3	UN3132	I	4.3, 4.1.	IB4, N40	None	211	242	Forbidden	15 kg	D	.....
	.....	.....		II	4.3, 4.1.	IB4, T3, TP33	151	212	242	15 kg	50 kg	E	.....
	.....	.....		III	4.3, 4.1.	IB6, T1, TP33	151	213	241	25 kg	100 kg	E	.....
G	Water-reactive solid, n.o.s.	4.3	UN2813	I	4.3	IB4, N40	None	211	242	Forbidden	15 kg	E	40
	.....	.....		II	4.3	IB7, IP2, T3, TP33	151	212	242	15 kg	50 kg	E	40
	.....	.....		III	4.3	IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	E	40
G	Water-reactive, solid, oxidizing, n.o.s..	4.3	UN3133	II	4.3, 5.1.		None	214	214	Forbidden	Forbidden	E	40
	.....	.....		III	4.3, 5.1.		None	214	214	Forbidden	Forbidden	E	40
G	Water-reactive solid, self-heating, n.o.s..	4.3	UN3135	I	4.3, 4.2.	N40	None	211	242	Forbidden	15 kg	E	.....
	.....	.....		II	4.3, 4.2.	IB5, IP2, T3, TP33	None	212	242	15 kg	50 kg	E	.....
	.....	.....		III	4.3, 4.2.	IB8, IP4, T1, TP33	None	213	241	25 kg	100 kg	E	.....
G	Water-reactive solid, toxic, n.o.s.	4.3	UN3134	I	4.3, 6.1.	A8, IB4, IP1, N40	None	211	242	Forbidden	15 kg	D	.....
	.....	.....		II	4.3, 6.1.	IB5, IP2, T3, TP33	151	212	242	15 kg	50 kg	E	85
	.....	.....		III	4.3, 6.1.	IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	E	85
	Wheel chair, electric, see Battery powered vehicle *or* Battery powered equipment.	.....			.....		.....	.....	.....	.....	.....		.....
	White acid, see Hydrofluoric acid.	.....			.....		.....	.....	.....	.....	.....		.....

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
I	White asbestos *(chrysotile, actinolite, anthophyllite, tremolite)*.	9	UN2590	III	9	156, IB8, IP2, IP3, T1, TP33	155	216	240	200 kg	200 kg	A	34, 40
	Wood preservatives, liquid	3	UN1306	II	3	149, IB2, T4, TP1, TP8	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	40
A I W	Wool waste, wet	4.2	UN1387	III	4.2		151	213	240	Forbidden	Forbidden	A	
	Xanthates	4.2	UN3342	II	4.2	IB6, IP2, T3, TP33	None	212	241	15 kg	50 kg	D	40
				III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	D	40
	Xenon	2.2	UN2036		2.2		306	302	None	75 kg	150 kg	A	
	Xenon, refrigerated liquid *(cryogenic liquids)*.	2.2	UN2591		2.2	T75, TP5	320	None	None	50 kg	500 kg	B	
	Xylenes	3	UN1307	II	3	IB2, T4, TP1	150	202	242	5 L	60 L	B	
				III	3	B1, IB3, T2, TP1	150	203	242	60 L	220 L	A	
	Xylenols, solid	6.1	UN2261	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Xylenols, liquid	6.1	UN3430	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	Xylidines, liquid	6.1	UN1711	II	6.1	IB2, T7, TP2	153	202	243	5 L	60 L	A	
	Xylidines, solid	6.1	UN3452	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Xylyl bromide, liquid	6.1	UN1701	II	6.1	A3, A6, A7, IB2, N33, T7, TP2, TP13	None	340	None	Forbidden	60 L	D	40
	Xylyl bromide, solid	6.1	UN3417	II	6.1	A3, A6, A7, IB8, IP2, IP4, N33, T3, TP33	None	340	None	25 kg	100 kg	B	40
	p-Xylyl diazide	Forbidden											
	Zinc ammonium nitrite	5.1	UN1512	II	5.1	IB8, IP4, T3, TP33	None	212	242	5 kg	25 kg	E	
	Zinc arsenate *or* Zinc arsenite *or* Zinc arsenate and zinc arsenite mixtures.	6.1	UN1712	II	6.1	IB8, IP2, IP4, T3, TP33	153	212	242	25 kg	100 kg	A	
	Zinc ashes	4.3	UN1435	III	4.3	A1, A19, IB8, IP4, T1, TP33	151	213	241	25 kg	100 kg	A	
	Zinc bisulfite solution, see Bisulfites, aqueous solutions, n.o.s..												

Zinc bromate	5.1	UN2469	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	56, 58
Zinc chlorate	5.1	UN1513	II	5.1	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	242	5 kg	25 kg	A	56, 58
Zinc chloride, anhydrous	8	UN2331	III	8	IB8, IP3, T1, TP33	None	213	240	25 kg	100 kg	A	
Zinc chloride, solution	8	UN1840	III	8	IB3, T4, TP1	154	203	241	5 L	60 L	A	
Zinc cyanide	6.1	UN1713	I	6.1	IB7, IP1, T6, TP33	None	211	242	5 kg	50 kg	A	52
Zinc dithionite *or* Zinc hydrosulfite.	9	UN1931	III	None	IB8, IP3, T1, TP33	155	204	240	100 kg	200 kg	A	49
Zinc ethyl, see Diethylzinc												
Zinc fluorosilicate	6.1	UN2855	III	6.1	IB8, IP3, T1, TP33	153	213	240	100 kg	200 kg	A	52
Zinc hydrosulfite, *see* Zinc dithionite.												
Zinc muriate solution, see Zinc chloride, solution.												
Zinc nitrate	5.1	UN1514	II	5.1	IB8, IP4, T3, TP33	152	212	240	5 kg	25 kg	A	
Zinc permanganate	5.1	UN1515	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	D	56, 58, 138
Zinc peroxide	5.1	UN1516	II	5.1	IB6, IP2, T3, TP33	152	212	242	5 kg	25 kg	A	13, 52, 66, 75
Zinc phosphide	4.3	UN1714	I	4.3, 6.1.	A19, N40	None	211	None	Forbidden	15 kg	E	40, 52, 85
Zinc powder *or* Zinc dust	4.3	UN1436	I	4.3, 4.2.	A19, IB4, IP1, N40	None	211	242	Forbidden	15 kg	A	52, 53
			II	4.3, 4.2.	A19, IB7, IP2, T3, TP33	None	212	242	15 kg	50 kg	A	52, 53
			III	4.3, 4.2.	IB8, IP4, T1, TP33	None	213	242	25 kg	100 kg	A	52, 53
Zinc resinate	4.1	UN2714	III	4.1	A1, IB6, T1, TP33	151	213	240	25 kg	100 kg	A	
Zinc selenate, see Selenates *or* Selenites.												
Zinc selenite, see Selenates *or* Selenites.												
Zinc silicofluoride, see Zinc fluorosilicate.												
Zirconium, dry, *coiled wire, finished metal sheets, strip (thinner than 254 microns but not thinner than 18 microns)*.	4.1	UN2858	III	4.1	A1	151	213	240	25 kg	100 kg	A	
Zirconium, dry, *finished sheets, strip or coiled wire*.	4.2	UN2009	III	4.2	A1, A19	None	213	240	25 kg	100 kg	D	
Zirconium hydride	4.1	UN1437	II	4.1	A19, A20, IB4, N34, T3, TP33	None	212	240	15 kg	50 kg	E	
Zirconium nitrate	5.1	UN2728	III	5.1	A1, A29, IB8, IP3, T1, TP33	152	213	240	25 kg	100 kg	A	

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions (§ 172.102)	(8) Packaging (§ 173.***)			(9) Quantity limitations (see §§ 173.27 and 175.75)		(10) Vessel stowage	
							Exceptions	Non-bulk	Bulk	Passenger aircraft/rail	Cargo aircraft only	Location	Other
	Zirconium picramate, *dry or wetted with less than 20 percent water, by mass*.	1.3C	UN0236	II	1.3C ..		None	62	None	Forbidden	Forbidden	10	5E
	Zirconium picramate, wetted *with not less than 20 percent water, by mass*.	4.1	UN1517	I	4.1	23, N41	None	211	None	1 kg	15 kg	D	28, 36
	Zirconium powder, dry	4.2	UN2008	I	4.2	T21, TP7, TP33	None	211	242	Forbidden	Forbidden	D	.....
	.....	.....		II	4.2	A19, A20, IB6, IP2, N5, N34, T3, TP33	None	212	241	15 kg	50 kg	D	.....
	.....	.....		III	4.2	IB8, IP3, T1, TP33	None	213	241	25 kg	100 kg	D	.....
	Zirconium powder, wetted *with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns*.	4.1	UN1358	II	4.1	A19, A20, IB6, IP2, N34, T3, TP33	None	212	241	15 kg	50 kg	E	74
	Zirconium scrap	4.2	UN1932	III	4.2	IB8, IP3, N34, T1, TP33	None	213	240	Forbidden	Forbidden	D	.....
	Zirconium suspended in a liquid	3	UN1308	I	3		None	201	243	Forbidden	Forbidden	B	.....
	.....	.....		II	3	IB2	None	202	242	5 L	60 L	B	.....
	.....	.....		III	3	B1, IB2	150	203	242	60 L	220 L	B	.....
	Zirconium tetrachloride	8	UN2503	III	8	IB8, IP3, T1, TP33	154	213	240	25 kg	100 kg	A	.....

APPENDIX A TO § 172.101—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

1. This appendix lists materials and their corresponding reportable quantities (RQ's) that are listed or designated as ''hazardous substances'' under section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. 9601(14) (CERCLA; 42 U.S.C. 9601 *et seq*). This listing fulfills the requirement of CERCLA, 42 U.S.C. 9656(a), that all ''hazardous substances,'' as defined in 42 U.S.C. 9601(14), be listed and regulated as hazardous materials under 49 U.S.C. 5101–5127. That definition includes substances listed under sections 311(b)(2)(A) and 307(a) of the Federal Water Pollution Control Act, 33 U.S.C. 1321(b)(2)(A) and 1317(a), section 3001 of the Solid Waste Disposal Act, 42 U.S.C. 6921, and section 112 of the Clean Air Act, 42 U.S.C. 7412. In addition, this list contains materials that the Administrator of the Environmental Protection Agency has determined to be hazardous substances in accordance with section 102 of CERCLA, 42 U.S.C. 9602. It should be noted that 42 U.S.C. 9656(b) provides that common and contract carriers may be held liable under laws other than CERCLA for the release of a hazardous substance as defined in that Act, during transportation that commenced before the effective date of the listing and regulating of that substance as a hazardous material under 49 U.S.C. 5101–5127.

2. This appendix is divided into two TABLES which are entitled ''TABLE 1—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES'' and ''TABLE 2—RADIONUCLIDES.'' A material listed in this appendix is regulated as a hazardous material and a hazardous substance under this subchapter if it meets the definition of a hazardous substance in § 171.8 of this subchapter.

3. The procedure for selecting a proper shipping name for a hazardous substance is set forth in § 172.101(c).

4. Column 1 of TABLE 1, entitled *''Hazardous substance''*, contains the names of those elements and compounds that are hazardous substances. Following the listing of elements and compounds is a listing of waste streams. These waste streams appear on the list in numerical sequence and are referenced by the appropriate ''D'', ''F'', or ''K'' numbers. Column 2 of TABLE 1, entitled *''Reportable quantity (RQ)''*, contains the reportable quantity (RQ), in pounds and kilograms, for each hazardous substance listed in Column 1 of TABLE 1.

5. A series of notes is used throughout TABLE 1 and TABLE 2 to provide additional information concerning certain hazardous substances. These notes are explained at the end of each TABLE.

6. TABLE 2 lists radionuclides that are hazardous substances and their corresponding RQ's. The RQ's in table 2 for radionuclides are expressed in units of curies and terabecquerels, whereas those in table 1 are expressed in units of pounds and kilograms. If a material is listed in both table 1 and table 2, the lower RQ shall apply. Radionuclides are listed in alphabetical order. The RQ's for radionuclides are given in the radiological unit of measure of curie, abbreviated ''Ci'', followed, in parentheses, by an equivalent unit measured in terabecquerels, abbreviated ''TBq''.

7. For mixtures of radionuclides, the following requirements shall be used in determining if a package contains an RQ of a hazardous substance: (i) if the identity and quantity (in curies or terabecquerels) of each radionuclide in a mixture or solution is known, the ratio between the quantity per package (in curies or terabecquerels) and the RQ for the radionuclide must be determined for each radionuclide. A package contains an RQ of a hazardous substance when the sum of the ratios for the radionuclides in the mixture or solution is equal to or greater than one; (ii) if the identity of each radionuclide in a mixture or solution is known but the quantity per package (in curies or terabecquerels) of one or more of the radionuclides is unknown, an RQ of a hazardous substance is present in a package when the total quantity (in curies or terabecquerels) of the mixture or solution is equal to or greater than the lowest RQ of any individual radionuclide in the mixture or solution; and (iii) if the identity of one or more radionuclides in a mixture or solution is unknown (or if the identity of a radionuclide by itself is unknown), an RQ of a hazardous substance is present when the total quantity (in curies or terabecquerels) in a package is equal to or greater than either one curie or the lowest RQ of any known individual radionuclide in the mixture or solution, whichever is lower.

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Acenaphthene	100 (45.4)
Acenaphthylene	5000 (2270)
Acetaldehyde	1000 (454)
Acetaldehyde, chloro-	1000 (454)
Acetaldehyde, trichloro-	5000 (2270)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Acetamide	100 (45.4)
Acetamide, N-(aminothioxomethyl)-	1000 (454)
Acetamide, N-(4-ethoxyphenyl)-	100 (45.4)
Acetamide, N-fluoren-2-yl-	1 (0.454)
Acetamide, 2-fluoro-	100 (45.4)
Acetic acid	5000 (2270)
Acetic acid (2,4-dichlorophenoxy)-	100 (45.4)
Acetic acid, ethyl ester	5000 (2270)
Acetic acid, fluoro-, sodium salt	10 (4.54)
Acetic acid, lead (2+) salt	10 (4.54)
Acetic acid, thallium(I+) salt	1000 (454)
Acetic anhydride	5000 (2270)
Acetone	5000 (2270)
Acetone cyanohydrin	10 (4.54)
Acetonitrile	5000 (2270)
Acetophenone	5000 (2270)
2-Acetylaminofluorene	1 (0.454)
Acetyl bromide	5000 (2270)
Acetyl chloride	5000 (2270)
1-Acetyl-2-thiourea	1 (0.454)
Acrolein	1(0.454)
Acrylamide	5000 (2270)
Acrylic acid	5000 (2270)
Acrylonitrile	100 (45.4)
Adipic acid	5000 (2270)
AldicarbD1 (0.454).	
Aldrin	1 (0.454)
Allyl alcohol	100 (45.4)
Allyl chloride	1000 (454)
Aluminum phosphide	100 (45.4)
Aluminum sulfate	5000 (2270)
4–Aminobiphenyl	1 (0.454)
5-(Aminomethyl)-3-isoxazolol	1000 (454)
4-Aminopyridine	1000 (454)
Amitrole	10 (4.54)
Ammonia	100 (45.4)
Ammonium acetate	5000 (2270)
Ammonium benzoate	5000 (2270)
Ammonium bicarbonate	5000 (2270)
Ammonium bichromate	10 (4.54)
Ammonium bifluoride	100 (45.4)
Ammonium bisulfite	5000 (2270)
Ammonium carbamate	5000 (2270)
Ammonium carbonate	5000 (2270)
Ammonium chloride	5000 (2270)
Ammonium chromate	10 (4.54)
Ammonium citrate, dibasic	5000 (2270)
Ammonium dichromate @	10 (4.54)
Ammonium fluoborate	5000 (2270)
Ammonium fluoride	100 (45.4)
Ammonium hydroxide	1000 (454)
Ammonium oxalate	5000 (2270)
Ammonium picrate	10 (4.54)
Ammonium silicofluoride	1000 (454)
Ammonium sulfamate	5000 (2270)
Ammonium sulfide	100 (45.4)
Ammonium sulfite	5000 (2270)
Ammonium tartrate	5000 (2270)
Ammonium thiocyanate	5000 (2270)
Ammonium vanadate	1000 (454)
Amyl acetate	5000 (2270)
iso-Amyl acetate	.....
sec-Amyl acetate	.....
tert-Amyl acetate	.....
Aniline	5000 (2270)
o-Anisidine	100 (45.4)
Anthracene	5000 (2270)
Antimony ¢	5000 (2270)
Antimony pentachloride	1000 (454)
Antimony potassium tartrate	100 (45.4)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Antimony tribromide	1000 (454)
Antimony trichloride	1000 (454)
Antimony trifluoride	1000 (454)
Antimony trioxide	1000 (454)
Argentate(1-), bis(cyano-C)-, potassium	1 (0.454)
Aroclor 1016	1 (0.454)
Aroclor 1221	1 (0.454)
Aroclor 1232	1 (0.454)
Aroclor 1242	1 (0.454)
Aroclor 1248	1 (0.454)
Aroclor 1254	1 (0.454)
Aroclor 1260	1 (0.454)
Arsenic ¢	1 (0.454)
Arsenic acid	1 (0.454)
Arsenic acid H3AsO4	1 (0.454)
Arsenic disulfide	1 (0.454)
Arsenic oxide As203	1 (0.454)
Arsenic oxide As205	1 (0.454)
Arsenic pentoxide	1 (0.454)
Arsenic trichloride	1 (0.454)
Arsenic trioxide	1 (0.454)
Arsenic trisulfide	1 (0.454)
Arsine, diethyl-	1 (0.454)
Arsinic acid, dimethyl-	1 (0.454)
Arsonous dichloride, phenyl-	1 (0.454)
Asbestos ¢¢	1 (0.454)
Auramine100 (45.4).	
Azaserine	1 (0.454)
Aziridine	1 (0.454)
Aziridine, 2-methyl-	1 (0.454)
Azirino[2′,3′:3,4]pyrrolo(1,2-a)indole-4,7-dione,6- amino-8-[[(aminocarbonyl)oxy] methyl]-1,1a,2,8,8a, 8b-hexahydro-8a-methoxy-5-methyl-, [1aS-[aalpha,8beta,8aalpha,8balpha)]-	10 (4.54)
Barium cyanide	10 (4.54)
Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	10 (4.54)
Benz[c]acridine	100 (45.4)
3,4-Benzacridine	100 (45.4)
Benzal chloride	5000 (2270)
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)	5000 (2270)
Benz[a]anthracene	10 (4.54)
1,2-Benzanthracene	10 (4.54)
Benz[a]anthracene, 7,12-dimethyl-	1 (0.454)
Benzenamine	5000 (2270)
Benzenamine, 4,4′-carbonimidoylbis (N,N-dimethyl-	100 (45.4)
Benzenamine, 4-chloro-	1000 (454)
Benzenamine, 4-chloro-2-methyl-, hydrochloride	100 (45.4)
Benzenamine, N,N-dimethyl-4-(phenylazo)-	10 (4.54)
Benzenamine, 2-methyl-	100 (45.4)
Benzenamine, 4-methyl-	100 (45.4)
Benzenamine, 4,4′-methylenebis(2-chloro-	10 (4.54)
Benzenamine, 2-methyl-, hydrochloride	100 (45.4)
Benzenamine, 2-methyl-5-nitro-	100 (45.4)
Benzenamine, 4-nitro-	5000 (2270)
Benzene	10 (4.54)
Benzene, 1-bromo-4-phenoxy-	100 (45.4)
Benzene, chloro-	100 (45.4)
Benzene, chloromethyl-	100 (45.4)
Benzene, 1,2-dichloro-	100 (45.4)
Benzene, 1,3-dichloro-	100 (45.4)
Benzene, 1,4-dichloro-	100 (45.4)
Benzene, 1,1′-(2,2-dichloroethylidene)bis[4-chloro	1 (0.454)
Benzene, dichloromethyl-	5000 (2270)
Benzene, 1,3-diisocyanatomethyl	100 (45.4)
Benzene, dimethyl-	100 (45.4)
Benzene, m-dimethyl-	1000 (454)
Benzene, o-dimethyl-	1000 (454)
Benzene, p-dimethyl-	100 (45.4)
Benzene, hexachloro-	10 (4.54)
Benzene, hexahydro-	1000 (454)
Benzene, hydroxy-	1000 (454)
Benzene, methyl-	1000 (454)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Benzene, 1-methyl-2,4-dinitro-	10 (4.54)
Benzene, 2-methyl-1,3-dinitro-	100 (45.4)
Benzene, 1-methylethyl-	5000 (2270)
Benzene, nitro-	1000 (454)
Benzene, pentachloro-	10 (4.54)
Benzene, pentachloronitro-	100 (45.4)
Benzene, 1,2,4,5-tetrachloro-	5000 (2270)
Benzene, 1,1′-(2,2,2-trichloroethylidene)bis[4-chloro-	1 (0.454)
Benzene, 1,1′-(2,2,2-trichloroethylidene)bis[4-methoxy)-	1 (0.454)
Benzene, (trichloromethyl)	10 (4.54)
Benzene, 1,3,5-trinitro-	10 (4.54)
Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	10 (4.54)
Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	10 (4.54)
Benzenediamine, ar-methyl-	10 (4.54)
1,2-Benzenedicarboxylic acid, [bis(2-ethylhexyl)] ester	100 (45.4)
1,2-Benzenedicarboxylic acid, dibutyl ester	10 (4.54)
1,2-Benzenedicarboxylic acid, diethyl ester	1000 (454)
1,2-Benzenedicarboxylic acid, dimethyl ester	5000 (2270)
1,2-Benzenedicarboxylic acid, dioctyl ester	5000 (2270)
1,3-Benzenediol	5000 (2270)
1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl]-	1000 (454)
Benzeneethanamine, alpha,alpha-dimethyl-	5000 (2270)
Benzenesulfonic acid chloride	100 (45.4)
Benzenesulfonyl chloride	100 (45.4)
Benzenethiol	100 (45.4)
Benzidine	1 (0.454)
1,2-Benzisothiazol-3(2H)-one,1,1-dioxide	100 (45.4)
Benzo[a]anthracene	10 (4.54)
1,3-Benzodioxole, 5-(2-propenyl)-	100 (45.4)
1,3-Benzodioxole, 5-(1-propenyl)-	100 (45.4)
1,3-Benzodioxole, 5-propyl-	10 (4.54)
Benzo[b]fluoranthene	1 (0.454)
Benzo[k]fluoranthene	5000 (2270)
Benzo[j,k]fluorene	100 (45.4)
Benzoic acid	5000 (2270)
Benzonitrile	5000 (2270)
Benzo[g,h,i]perylene	5000 (2270)
2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations greater than 0.3%	100 (45.4)
Benzo[a]pyrene	1 (0.454)
3,4-Benzopyrene	1 (0.454)
p-Benzoquinone	10 (4.54)
Benzo [rst]pentaphene	10 (4.54)
Benzotrichloride	10 (4.54)
Benzoyl chloride	1000 (454)
1,2-Benzphenanthrene	100 (45.4)
Benzyl chloride	100 (45.4)
Beryllium ¢	10 (4.54)
Beryllium chloride	1 (0.454)
Beryllium dust ¢	10 (4.54)
Beryllium fluoride	1 (0.454)
Beryllium nitrate	1 (0.454)
alpha - BHC	10 (4.54)
beta - BHC	1 (0.454)
delta - BHC	1 (0.454)
gamma - BHC	1 (0.454)
2,2′Bioxirane	10 (4.54)
Biphenyl	100 (45.4)
(1,1′-Biphenyl)-4,4′-diamine	1 (0.454)
(1,1′-Biphenyl)-4,4′-diamine,3,3′-dichloro-	1 (0.454)
(1,1′-Biphenyl)-4,4′-diamine,3,3′-dimethoxy-	10 (4.54)
(1,1′-Biphenyl)-4,4′-diamine,3,3′-dimethyl-	10 (4.54)
Bis(2-chloroethoxy) methane	1000 (454)
Bis(2-chloroethyl) ether	10 (4.54)
Bis(2-ethylhexyl)phthalate	100 (45.4)
Bromoacetone	1000 (454)
Bromoform	100 (45.4)
4-Bromophenyl phenyl ether	100 (45.4)
Brucine	100 (45.4)
1,3–Butadiene	10 (4.54)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	1 (0.454)
1-Butanamine, N-butyl-N-nitroso-	10 (4.54)
1-Butanol	5000 (2270)
2-Butanone	5000 (2270)
2-Butanone, 3,3-dimethyl-1-(methylthio)-,O-[(methylamino)carbonyl] oxime	100 (45.4)
2-Butanone peroxide	10 (4.54)
2-Butenal	100 (45.4)
2-Butene, 1,4-dichloro-	1 (0.454)
2-Butenoic acid, 2-methyl-,7[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z),7(2S*, 3R*), 7alpha]]-	10 (4.54)
Butyl acetate	5000 (2270)
iso-Butyl acetate	.....
sec-Butyl acetate	.....
tert-Butyl acetate	.....
n-Butyl alcohol	5000 (2270)
Butylamine	1000 (454)
iso-Butylamine	.....
sec-Butylamine	.....
tert-Butylamine	.....
Butyl benzyl phthalate	100 (45.4)
n-Butyl phthalate	10 (4.54)
Butyric acid	5000 (2270)
iso-Butyric acid	.....
Cacodylic acid	1 (0.454)
Cadmium ¢	10 (4.54)
Cadmium acetate	10 (4.54)
Cadmium bromide	10 (4.54)
Cadmium chloride	10 (4.54)
Calcium arsenate	1 (0.454)
Calcium arsenite	1 (0.454)
Calcium carbide	10 (4.54)
Calcium chromate	10 (4.54)
Calcium cyanamide	1000 (454)
Calcium cyanide	10 (4.54)
Calcium cyanide $Ca(CN)_2$	10 (4.54)
Calcium dodecylbenzene sulfonate	1000 (454)
Calcium hypochlorite	10 (4.54)
Camphene, octachloro-	1 (0.454)
Captan	10 (4.54)
Carbamic acid, ethyl ester	100 (45.4)
Carbamic acid, methylnitroso-, ethyl ester	1 (0.454)
Carbamic chloride, dimethyl-	1 (0.454)
Carbamide, thio-	10 (4.54)
Carbamimidoselenoic acid	1000 (454)
Carbamothioic acid, bis (1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	100 (45.4)
Carbaryl	100 (45.4)
Carbofuran	10 (4.54)
Carbon bisulfide	100 (45.4)
Carbon disulfide	100 (45.4)
Carbonic acid, dithallium (I+)	100 (45.4)
Carbonic dichloride	10 (4.54)
Carbonic difluoride	1000 (454)
Carbonochloridic acid, methyl ester	1000 (454)
Carbon oxyfluoride	1000 (454)
Carbon tetrachloride	10 (4.54)
Carbonyl sulfide	100 (45.4)
Catechol	100 (45.4)
Chloral	5000(2270)
Chloramben	100 (45.4)
Chlorambucil	10 (4.54)
Chlordane	1 (0.454)
Chlordane, alpha & gamma isomers	1 (0.454)
Chlordane, technical	1 (0.454)
Chlorine	10 (4.54)
Chlornaphazine	100 (45.4)
Chloroacetaldehyde	1000 (454)
Chloroacetic acid	100 (45.4)
2–Chloroacetophenone	100 (45.4)
p-Chloroaniline	1000 (454)
Chlorobenzene	100 (45.4)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Chlorobenzilate	10 (4.54)
4-Chloro-m-cresol	5000 (2270)
p-Chloro-m-cresol	5000 (2270)
Chlorodibromomethane	100 (45.4)
Chloroethane	100 (45.4)
2-Chloroethyl vinyl ether	1000 (454)
Chloroform	10 (4.54)
Chloromethane	100 (45.4)
Chloromethyl methyl ether	10 (4.54)
beta-Chloronaphthalene	5000 (2270)
2-Chloronaphthalene	5000 (2270)
2-Chlorophenol	100 (45.4)
o-Chlorophenol	100 (45.4)
4-Chlorophenyl phenyl ether	5000 (2270)
1-(o-Chlorophenyl)thiourea	100 (45.4)
Chloroprene	100 (45.4)
3-Chloropropionitrile	1000 (454)
Chlorosulfonic acid	1000 (454)
4-Chloro-o-toluidine, hydrochloride	100 (45.4)
Chlorpyrifos	1 (0.454)
Chromic acetate	1000 (454)
Chromic acid	10 (4.54)
Chromic acid H2CrO4, calcium salt	10 (4.54)
Chromic sulfate	1000 (454)
Chromium ¢	5000 (2270)
Chromous chloride	1000 (454)
Chrysene	100 (45.4)
Cobaltous bromide	1000 (454)
Cobaltous formate	1000 (454)
Cobaltous sulfamate	1000 (454)
Coke Oven Emissions	1 (0.454)
Copper ¢	5000 (2270)
Copper chloride @	10 (4.54)
Copper cyanide	10 (4.54)
Copper cyanide CuCN	10 (4.54)
Coumaphos	10 (4.54)
Creosote	1 (0.454)
Cresols (isomers and mixture)	100 (45.4)
m-Cresol	100 (45.4)
o-Cresolo	100 (45.4)
p-Cresol	100 (45.4)
Cresylic acid (isomers and mixture)	100 (45.4)
m-Cresylic acid	100 (45.4)
o-Cresylic acid	100 (45.4)
p-Cresylic acid	100 (45.4)
Crotonaldehyde	100 (45.4)
Cumene	5000 (2270)
Cupric acetate	100 (45.4)
Cupric acetoarsenite	1 (0.454)
Cupric chloride	10 (4.54)
Cupric nitrate	100 (45.4)
Cupric oxalate	100 (45.4)
Cupric sulfate	10 (4.54)
Cupric sulfate ammoniated	100 (45.4)
Cupric tartrate	100 (45.4)
Cyanides (soluble salts and complexes) not otherwise specified	10 (4.54)
Cyanogen	100 (45.4)
Cyanogen bromide	1000 (454)
Cyanogen bromide (CN)Br	1000 (454)
Cyanogen chloride	10 (4.54)
Cyanogen chloride (CN)Cl	10 (4.54)
2,5-Cyclohexadiene-1,4-dione	10 (4.54)
Cyclohexane	1000 (454)
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)-	1 (0.454)
Cyclohexanone	5000 (2270)
2-Cyclohexyl-4,6-dinitrophenol	100 (45.4)
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	10 (4.54)
Cyclophosphamide	10 (4.54)
2,4-D Acid	100 (45.4)
2,4-D Ester	100 (45.4)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Daunomycin	10 (4.54)
DDD	1 (0.454)
4,4′-DDD	1 (0.454)
DDE	1 (0.454)
4,4′-DDE	1 (0.454)
DDT	1 (0.454)
4,4′-DDT	1 (0.454)
Diallate	100 (45.4)
Diamine	1 (0.454)
Diazinon	1 (0.454)
Diazomethane	100 (45.4)
Dibenz[a,h]anthracene	1 (0.454)
1,2:5,6-Dibenzanthracene	1 (0.454)
Dibenzo[a,h]anthracene	1 (0.454)
Dibenzofuran	100 (45.4)
Dibenz[a,i]pyrene	10 (4.54)
1,2-Dibromo-3-chloropropane	1 (0.454)
Dibutyl phthalate	10 (4.54)
Di-n-butyl phthalate	10 (4.54)
Dicamba	1000 (454)
Dichlobenil	100 (45.4)
Dichlone	1 (0.454)
Dichlorobenzene	100 (45.4)
1,2-Dichlorobenzene	100 (45.4)
1,3-Dichlorobenzene	100 (45.4)
1,4-Dichlorobenzene	100 (45.4)
m-Dichlorobenzene	100 (45.4)
o-Dichlorobenzene	100 (45.4)
p-Dichlorobenzene	100 (45.4)
3,3′-Dichlorobenzidine	1 (0.454)
Dichlorobromomethane	5000 (2270)
1,4-Dichloro-2-butene	1 (0.454)
Dichlorodifluoromethane	5000 (2270)
1,1-Dichloroethane	1000 (454)
1,2-Dichloroethane	100 (45.4)
1,1-Dichloroethylene	100 (45.4)
1,2-Dichloroethylene	1000 (454)
Dichloroethyl ether	10 (4.54)
Dichloroisopropyl—ether	1000 (454)
Dichloromethane @	1000 (454)
Dichloromethoxy ethane	1000 (454)
Dicholormethyl ether	10 (4.54)
2,4-Dichlorophenol	100 (45.4)
2,6-Dichlorophenol	100 (45.4)
Dichlorophenylarsine	1 (0.454)
Dichloropropane	1000 (454)
1,1-Dichloropropane	.....
1,3-Dichloropropane	.....
1,2-Dichloropropane	1000 (454)
Dichloropropane - Dichloropropene (mixture)	100 (45.4)
Dichloropropene	100 (45.4)
2,3-Dichloropropene	.....
1,3-Dichloropropene	100 (45.4)
2,2-Dichloropropionic acid	5000 (2270)
Dichlorvos	10 (4.54)
Dicofol	10 (4.54)
Dieldrin	1 (0.454)
1,2:3,4-Diepoxybutane	10 (4.54)
Diethanolamine	100 (45.4)
Diethylamine	1000 (454)
N,N-diethylaniline	1000 (454)
Diethylarsine	1 (0.454)
1,4-Diethylenedioxide	100 (45.4)
Diethylhexyl phthalate	100 (45.4)
N,N′-Diethylhydrazine	10 (4.54)
O,O-Diethyl S-methyl dithiophosphate	5000 (2270)
Diethyl-p-nitrophenyl phosphate	100 (45.4)
Diethyl phthalate	1000(454)
O,O-Diethyl O-pyrazinyl phosphorothioate	100 (45.4)
Diethylstilbestrol	1 (0.454)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Diethyl sulfate	10 (4.54)
Dihydrosafrole	10 (4.54)
Diisopropyl fluorophosphate	100 (45.4)
1,4,5,8-Dimethanonaphthalene	
1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro, (1alpha,4alpha,4abeta,5abeta,8beta,8abeta)-	1 (0.454)
1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-10-hexachloro-1,4,4a,5,8,8a-hexahydro- ,(1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-	1 (0.454)
2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a- octahydro-,(1aalpha,2beta,2abeta,3alpha,6alpha,6abeta, 7beta,7aalpha)-	1 (0.454)
2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a- octahydro-,(1aalpha,2beta,2aalpha,3beta,6beta,6aalpha, 7beta,7aalpha)-	1 (0.454)
Dimethoate	10 (4.54)
3,3′-Dimethoxybenzidine	10 (4.54)
Dimethylamine	1000 (454)
p-Dimethylaminoazobenzene	10 (4.54)
N,N-dimethylaniline	100 (45.4)
7,12-Dimethylbenz[a]anthracene	1 (0.454)
3,3′-Dimethylbenzidine	10 (4.54)
alpha,alpha-Dimethylbenzylhydroperoxide	10 (4.54)
Dimethylcarbamoyl chloride	1 (0.454)
Dimethylformamide	100 (45.4)
1,1-Dimethylhydrazine	10 (4.54)
1,2-Dimethylhydrazine	1 (0.454)
Dimethylhydrazine, unsymmetrical @	10 (4.54)
alpha,alpha-Dimethylphenethylamine	5000 (2270)
12,4-Dimethylphenol	100 (45.4)
Dimethyl phthalate	5000 (2270)
Dimethyl sulfate	100 (45.4)
Dinitrobenzene (mixed)	100 (45.4)
m-Dinitrobenzene	.....
o-Dinitrobenzene	.....
p-Dinitrobenzene.	
4,6-Dinitro-o-cresol and salts	10 (4.54)
Dinitrogen tetroxide @	10 (4.54)
Dinitrophenol	10 (4.54)
2,5-Dinitrophenol	.....
2,4-Dinitrophenol	10 (4.54)
Dinitrotoluene	10 (4.54)
3,4-Dinitrotoluene	.....
2,4-Dinitrotoluene	10 (4.54)
2,6-Dinitrotoluene	100 (45.4)
Dinoseb	1000 (454)
Di-n-octyl phthalate	5000 (2270)
1,4-Dioxane	100 (45.4)
1,2-Diphenylhydrazine	10 (4.54)
Diphosphoramide, octamethyl-	100 (45.4)
Diphosphoric acid, tetraethyl ester	10 (4.54)
Dipropylamine	5000 (2270)
Di-n-propylnitrosamine	10 (4.54)
Diquat	1000 (454)
Disulfoton	1 (0.454)
Dithiobiuret	100 (45.4)
Diuron	100 (45.4)
Dodecylbenzenesulfonic acid	1000 (454)
2,4-D, salts and esters	100 (45.4)
Endosulfan	1 (0.454)
alpha-Endosulfan	1 (0.454)
beta-Endosulfan	1 (0.454)
Endosulfan sulfate	1 (0.454)
Endothall	1000 (454)
Endrin	1 (0.454)
Endrin, & metabolites	1 (0.454)
Endrin aldehyde	1 (0.454)
Epichlorohydrin	100 (45.4)
Epinephrine	1000 (454)
1,2–Epoxybutane	100 (45.4)
Ethanal	1000 (454)
Ethanamine, N-ethyl-N-nitroso-	1 (0.454)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Ethane, 1,2-dibromo-	1 (0.454)
Ethane, 1,1-dichloro-	1000 (454)
Ethane, 1,2-dichloro-	100 (45.4)
Ethane, hexachloro-	100 (45.4)
Ethane, 1,1′-[methylenebis(oxy)]bis(2-chloro-	1000 (454)
Ethane, 1,1′-oxybis-	100 (45.4)
Ethane, 1,1′-oxybis(2-chloro-	10 (4.54)
Ethane, pentachloro-	10 (4.54)
Ethane, 1,1,1,2-tetrachloro-	100 (45.4)
Ethane, 1,1,2,2-tetrachloro-	100 (45.4)
Ethane, 1,1,2-trichloro-	100 (45.4)
Ethane, 1,1,1-trichloro-	1000 (454)
1,2-Ethanediamine, N,N-dimethyl-N′-2-pyridinyl-N′-(2-thienyl-methyl)-	5000 (2270)
Ethanedinitrile	100 (45.4)
Ethanenitrile	5000 (2270)
Ethanethioamide	10 (4.54)
Ethanimidothioic acid, N-[[(methylamino)carbonyl] oxy]-, methyl ester	100 (45.4)
Ethanol, 2-ethoxy-	1000 (454)
Ethanol, 2,2′-(nitrosoimino)bis-	1 (0.454)
Ethanone, 1-phenyl-	5000 (2270)
Ethanoyl chloride	5000 (2270)
Ethene, chloro-	1 (0.454)
Ethene, 2-chloroethoxy-	1000 (454)
Ethene, 1,1-dichloro-	100 (45.4)
Ethene, 1,2-dichloro- (E)	1000 (454)
Ethene, tetrachloro-	100 (45.4)
Ethene, trichloro-	100 (45.4)
Ethion	10 (4.54)
Ethyl acetate	5000 (2270)
Ethyl acrylate	1000 (454)
Ethylbenzene	1000 (454)
Ethyl carbamate (Urethan)	100 (45.4)
Ethyl chloride @	100 (45.4)
Ethyl cyanide	10 (4.54)
Ethylene dibromide	1 (0.454)
Ethylene dichloride	100 (45.4)
Ethylene glycol	5000 (2270)
Ethylene glycol monoethyl ether	1000 (454)
Ethylene oxide	10 (4.54)
Ethylenebisdithiocarbamic acid	5000 (2270)
Ethylenebisdithiocarbamic acid, salts and esters	5000 (2270)
Ethylenediamine	5000 (2270)
Ethylenediamine tetraacetic acid (EDTA)	5000 (2270)
Ethylenethiourea	10 (4.54)
Ethylenimine	1 (0.454)
Ethyl ether	100 (45.4)
Ethylidene dichloride	1000 (454)
Ethyl methacrylate	1000 (454)
Ethyl methanesulfonate	1 (0.454)
Ethyl methyl ketone @	5000 (2270)
Famphurdimethylester	1000 (454)
Ferric ammonium citrate	1000 (454)
Ferric ammonium oxalate	1000 (454)
Ferric chloride	1000 (454)
Ferric fluoride	100 (45.4)
Ferric nitrate	1000 (454)
Ferric sulfate	1000 (454)
Ferrous ammonium sulfate	1000 (454)
Ferrous chloride	100 (45.4)
Ferrous sulfate	1000 (454)
Fluoranthene	100 (45.4)
Fluorene	5000 (2270)
Fluorine	10 (4.54)
Fluoroacetamide	100 (45.4)
Fluoroacetic acid, sodium salt	10 (4.54)
Formaldehyde	100 (45.4)
Formic acid	5000 (2270)
Fulminic acid, mercury(2+)salt	10 (4.54)
Fumaric acid	5000 (2270)
Furan	100 (45.4)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Furan, tetrahydro-	1000 (454)
2-Furancarboxaldehyde	5000 (2270)
2,5-Furandione	5000 (2270)
Furfural	5000 (2270)
Furfuran	100 (45.4)
Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-	1 (0.454)
D-Glucose, 2-deoxy-2-[[methylnitrosoamino)-carbonyl]amino]-	1 (0.454)
Glycidylaldehyde	10 (4.54)
Guanidine, N-methyl-N′-nitro-N-nitroso-	10 (4.54)
Guthion	1 (0.454)
Heptachlor	1 (0.454)
Heptachlor epoxide	1 (0.454)
Hexachlorobenzene	10 (4.54)
Hexachlorobutadiene	1 (0.454)
Hexachlorocyclohexane (gamma isomer)	1 (0.454)
Hexachlorocyclopentadiene	10 (4.54)
Hexachloroethane	100 (45.4)
1,2,3,4,10-10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,exo-dimethanonaphthalene	1 (0.454)
Hexachlorophene	100 (45.4)
Hexachloropropene	1000 (454)
Hexaethyl tetraphosphate	100 (45.4)
Hexamethylene-1,6-diisocyanate	100 (45.4)
Hexamethylphosphoramide	1 (0.454)
Hexane	5000 (2270)
Hydrazine	1 (0.454)
Hydrazine, 1,2-diethyl-	10 (4.54)
Hydrazine, 1,1-dimethyl-	10 (4.54)
Hydrazine, 1,2-dimethyl-	1 (0.454)
Hydrazine, 1,2-diphenyl-	10 (4.54)
Hydrazine, methyl-	10 (4.54)
Hydrazinecarbothioamide	100 (45.4)
Hydrochloric acid	5000 (2270)
Hydrocyanic acid	10 (4.54)
Hydrofluoric acid	100 (45.4)
Hydrogen chloride	5000 (2270)
Hydrogen cyanide	10 (4.54)
Hydrogen fluoride	100 (45.4)
Hydrogen phosphide	100 (45.4)
Hydrogen sulfide	100 (45.4)
Hydrogen sulfide H2S	100 (45.4)
Hydroperoxide, 1-methyl-1-phenylethyl-	10 (4.54)
Hydroquinone	100 (45.4)
2-Imidazolidinethione	10 (4.54)
Indeno(1,2,3-cd)pyrene	100 (45.4)
1,3-Isobenzofurandione	5000 (2270)
Isobutyl alcohol	5000 (2270)
Isodrin	1 (0.454)
Isophorone	5000 (2270)
Isoprene	100 (45.4)
Isopropanolamine dodecylbenzene sulfonate	1000 (454)
Isosafrole	100 (45.4)
3(2H)-Isoxazolone, 5-(aminomethyl)-	1000 (454)
Keponedecachloroc-tahydro-	1 (0.454)
Lasiocarpine	10 (4.54)
Lead ¢	10 (4.54)
Lead acetate	10 (4.54)
Lead arsenate	1 (0.454)
Lead, bis(acetato-O)tetrahydroxytri	10 (4.54)
Lead chloride	10 (4.54)
Lead fluoborate	10 (4.54)
Lead fluoride	10 (4.54)
Lead iodide	10 (4.54)
Lead nitrate	10 (4.54)
Lead phosphate	10 (4.54)
Lead stearate	10 (4.54)
Lead subacetate	10 (4.54)
Lead sulfate	10 (4.54)
Lead sulfide	10 (4.54)
Lead thiocyanate	10 (4.54)
Lindane	1 (0.454)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Lithium chromate	10 (4.54)
Malathion	100 (45.4)
Maleic acid	5000 (2270)
Maleic anhydride	5000 (2270)
Maleic hydrazide	5000 (2270)
Malononitrile	1000 (454)
MDI	5000 (2270)
Melphalan	1 (0.454)
Mercaptodimethur	10 (4.54)
Mercuric cyanide	1 (0.454)
Mercuric nitrate	10 (4.54)
Mercuric sulfate	10 (4.54)
Mercuric thiocyanate	10 (4.54)
Mercurous nitrate	10 (4.54)
Mercury	1 (0.454)
Mercury, (acetato-O)phenyl-	100 (45.4)
Mercury fulminate	10 (4.54)
Methacrylonitrile	1000 (454)
Methanamine, N-methyl-	1000 (454)
Methanamine, N-methyl-N-nitroso	10 (4.54)
Methane, bromo-	1000 (454)
Methane, chloro-	100 (45.4)
Methane, chloromethoxy-	10 (4.54)
Methane, dibromo-	1000 (454)
Methane, dichloro-	1000 (454)
Methane, dichlorodifluoro-	5000 (2270)
Methane, iodo-	100 (45.4)
Methane, isocyanato-	10 (4.54)
Methane, oxybis(chloro-	10 (4.54)
Methane, tetrachloro-	10 (4.54)
Methane, tetranitro-	10 (4.54)
Methane, tribromo-	100 (45.4)
Methane, trichloro-	10 (4.54)
Methane, trichlorofluoro-	5000 (2270)
Methanesulfenyl chloride, trichloro-	100 (45.4)
Methanesulfonic acid, ethyl ester	1 (0.454)
Methanethiol	100 (45.4)
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide	1 (0.454)
Methanoic acid	5000 (2270)
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-a,4,7,7a-tetrahydro-	1 (0.454)
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	1 (0.454)
Methanol	5000 (2270)
Methapyrilene	5000 (2270)
1,3,4-Metheno-2H-cyclobutal[cd]-pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloroctahydro-	1 (0.454)
Methomyl	100 (45.4)
Methoxychlor	1 (0.454)
Methyl alcohol	5000 (2270)
Methylamine @	100 (45.4)
Methyl bromide	1000 (454)
1-Methylbutadiene	100 (45.4)
Methyl chloride	100 (45.4)
Methyl chlorocarbonate	1000 (454)
Methyl chloroform	1000 (454)
Methyl chloroformate	1000 (454)
Methylchloromethyl ether @	1 (0.454)
3-Methylcholanthrene	10 (4.54)
4,4′-Methylenebis(2-chloroaniline)	10 (4.54)
Methylene bromide	1000 (454)
Methylene chloride	1000 (454)
4,4′-Methylenedianiline	10 (4.54)
Methylene diphenyl diisocyanate	5000 (2270)
Methylene oxide	100 (45.4)
Methyl ethyl ketone (MEK)	5000 (2270)
Methyl ethyl ketone peroxide	10 (4.54)
Methyl hydrazine	10 (4.54)
Methyl iodide	100 (45.4)
Methyl isobutyl ketone	5000 (2270)
Methyl isocyanate	10 (4.54)
2-Methyllactonitrile	10 (4.54)
Methyl mercaptan	100 (45.4)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Methyl methacrylate	1000 (454)
Methyl parathion	100 (45.4)
4-Methyl-2-pentanone	5000 (2270)
Methyl tert-butyl ether	1000 (454)
Methylthiouracil	10 (4.54)
Mevinphos	10 (4.54)
Mexacarbate	1000 (454)
Mitomycin C	10 (4.54)
MNNG	10 (4.54)
Monoethylamine	100 (45.4)
Monomethylamine	100 (45.4)
Muscimol	1000 (454)
Naled	10 (4.54)
5,12-Naphthacenedione, 8-acetyl-10-[3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl) oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	10 (4.54)
Naphthalenamine, N,N-bis(2-chloroethyl)-	100 (45.4)
Naphthalene	100 (45.4)
Naphthalene, 2-chloro-	5000 (2270)
1,4-Naphthalenedione	5000 (2270)
2,7-Naphthalenedisulfonic acid, 3,3′-[(3,3′- dimethyl-(l,1′-biphenyl)-4,4′-diyl)-bis(azo)]bis(5-amino-4-hydroxy)-tetrasodium salt	10 (4.54)
Naphthenic acid	100 (45.4)
1,4-Naphthoquinone	5000 (2270)
alpha-Naphthylamine	100 (45.4)
beta-Naphthylamine	1 (0.454)
1-Naphthylamine	100 (45.4)
2-Naphthylamine	1 (0.454)
alpha-Naphthylthiourea	100 (45.4)
Nickel ¢	100 (45.4)
Nickel ammonium sulfate	100 (45.4)
Nickel carbonyl	10 (4.54)
Nickel carbonyl Ni(CO)4,(T-4)-	10 (4.54)
Nickel chloride	100 (45.4)
Nickel cyanide	10 (4.54)
Nickel cyanide Ni(CN)2	10 (4.54)
Nickel hydroxide	10 (4.54)
Nickel nitrate	100 (45.4)
Nickel sulfate	100 (45.4)
Nicotine and salts	100 (45.4)
Nitric acid	1000 (454)
Nitric acid, thallium(1+) salt	100 (45.4)
Nitric oxide	10 (4.54)
p-Nitroaniline	5000 (2270)
Nitrobenzene	1000 (454)
4-nitrobiphenyl	10 (4.54)
Nitrogen dioxide	10 (4.54)
Nitrogen oxide NO	10 (4.54)
Nitrogen oxide NO2	10 (4.54)
Nitroglycerine	10 (4.54)
Nitrophenol (mixed)	100 (45.4)
m-	.....
o-	.....
p-	.....
o-Nitrophenol	100 (45.4)
p-Nitrophenol	100 (45.4)
2-Nitrophenol	100 (45.4)
4-Nitrophenol	100 (45.4)
2-Nitropropane	10 (4.54)
N-Nitrosodi-n-butylamine	10 (4.54)
N-Nitrosodiethanolamine	1 (0.454)
N-Nitrosodiethylamine	1 (0.454)
N-Nitrosodimethylamine	10 (4.54)
N-Nitrosodiphenylamine	100 (45.4)
N-Nitroso-N-ethylurea	1 (0.454)
N-Nitroso-N-methylurea	1 (0.454)
N-Nitroso-N-methylurethane	1 (0.454)
N-Nitrosomethylvinylamine	10 (4.54)
n-Nitrosomorpholine	1 (0.454)
N-Nitrosopiperidine	10 (4.54)
N-Nitrosopyrrolidine	1 (0.454)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Nitrotoluene	1000 (454)
m-Nitrotoluene	.....
o-Nitrotoluene	.....
p-Nitrotoluene	.....
5-Nitro-o-toluidine	100 (45.4)
Octamethylpyrophosphoramide	100 (45.4)
Osmium oxide OsO4 (T-4)-	1000 (454)
Osmium tetroxide	1000 (454)
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	1000 (454)
1,2-Oxathiolane, 2,2-dioxide	10 (4.54)
2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide	10 (4.54)
Oxirane	10 (4.54)
Oxiranecarboxyaldehyde	10 (4.54)
Oxirane, (chloromethyl)-	100 (45.4)
Paraformaldehyde	1000 (454)
Paraldehyde	1000 (454)
Parathion	10 (4.54)
Pentachlorobenzene	10 (4.54)
Pentachloroethane	10 (4.54)
Pentachloronitrobenzene (PCNB)	100 (45.4)
Pentachlorophenol	10 (4.54)
1,3-Pentadiene	100 (45.4)
Perchloroethylene	100 (45.4)
Perchloromethyl mercaptan @	100 (45.4)
Phenacetin	100 (45.4)
Phenanthrene	5000 (2270)
Phenol	1000 (454)
Phenol, 2-chloro-	100 (45.4)
Phenol, 4-chloro-3-methyl-	5000 (2270)
Phenol, 2-cyclohexyl-4,6-dinitro-	100 (45.4)
Phenol, 2,4-dichloro-	100 (45.4)
Phenol, 2,6-dichloro-	100 (45.4)
Phenol, 4,4′-(1,2-diethyl-1,2-ethenediyl)bis-, (E)	1 (0.454)
Phenol, 2,4-dimethyl-	100 (45.4)
Phenol, 2,4-dinitro-	10 (4.54)
Phenol, methyl-	100 (45.4)
Phenol, 2-methyl-4,6-dinitro-	10 (4.54)
Phenol, 2,2′-methylenebis[3,4,6-trichloro-	100 (45.4)
Phenol, 2-(1-methylpropyl)-4,6-dinitro	1000 (454)
Phenol, 4-nitro-	100 (45.4)
Phenol, pentachloro-	10 (4.54)
Phenol, 2,3,4,6-tetrachloro-	10 (4.54)
Phenol, 2,4,5-trichloro-	10 (4.54)
Phenol, 2,4,6-trichloro-	10 (4.54)
Phenol, 2,4,6-trinitro-, ammonium salt	10 (4.54)
L-Phenylalanine, 4-[bis(2-chloroethyl)aminol]	1 (0.454)
p-Phenylenediamine	5000 (2270)
1,10-(1,2-Phenylene)pyrene	100 (45.4)
Phenyl mercaptan @	100 (45.4)
Phenylmercuric acetate	100 (45.4)
Phenylthiourea	100 (45.4)
Phorate	10 (4.54)
Phosgene	10 (4.54)
Phosphine	100 (45.4)
Phosphoric acid	5000 (2270)
Phosphoric acid, diethyl 4-nitrophenyl ester	100 (45.4)
Phosphoric acid, lead(2+) salt (2:3)	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl]ester	1 (0.454)
Phosphorodithioic acid, O,O-diethyl S-(ethylthio), methyl ester	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S-methyl ester	5000 (2270)
Phosphorodithioic acid, O,O-dimethyl S-[2 (methylamino)-2-oxoethyl] ester	10 (4.54)
Phosphorofluoridic acid, bis(1-methylethyl) ester	100 (45.4)
Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	10 (4.54)
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	100 (45.4)
Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	100 (45.4)
Phosphorothioic acid, O,[4-[(dimethylamino)sulfonyl] phenyl] O,O-dimethyl ester	1000 (454)
Phosphorus	1 (0.454)
Phosphorus oxychloride	1000 (454)
Phosphorus pentasulfide	100 (45.4)
Phosphorus sulfide	100 (45.4)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Phosphorus trichloride	1000 (454)
Phthalic anhydride	5000 (2270)
2-Picoline	5000 (2270)
Piperidine, 1-nitroso-	10 (4.54)
Plumbane, tetraethyl-	10 (4.54)
POLYCHLORINATED BIPHENYLS (PCBs)	1 (0.454)
Potassium arsenate	1 (0.454)
Potassium arsenite	1 (0.454)
Potassium bichromate	10 (4.54)
Potassium chromate	10 (4.54)
Potassium cyanide	10 (4.54)
Potassium cyanide K(CN)	10 (4.54)
Potassium hydroxide	1000 (454)
Potassium permanganate	100 (45.4)
Potassium silver cyanide	1 (0.454)
Pronamide	5000 (2270)
Propanal, 2-methyl-2-(methylthio)-,O-[(methylamino)carbonyl]oxime	1 (0.454)
1-Propanamine	5000 (2270)
1-Propanamine, N-nitroso-N-propyl-	10 (4.54)
1-Propanamine, N-propyl-	5000 (2270)
Propane, 1,2-dibromo-3-chloro-	1 (0.454)
Propane, 1,2-dichloro-	1000 (454)
Propane, 2-nitro-	10 (4.54)
Propane, 2,2′-oxybis [2-chloro-	1000 (454)
1,3-Propane sultone	10 (4.54)
Propanedinitrile	1000 (454)
Propanenitrile	10 (4.54)
Propanenitrile, 3-chloro-	1000 (454)
Propanenitrile, 2-hydroxy-2-methyl-	10 (4.54)
1,2,3-Propanetriol, trinitrate-	10 (4.54)
1-Propanol, 2,3-dibromo-, phosphate (3:1)	10 (4.54)
1-Propanol, 2-methyl-	5000 (2270)
2-Propanone	5000 (2270)
2-Propanone, 1-bromo-	1000 (454)
Propargite	10 (4.54)
Propargyl alcohol	1000 (454)
2-Propenal	1 (0.454)
2-Propenamide	5000 (2270)
1-Propene, 1,3-dichloro-	100 (45.4)
1-Propene, 1,1,2,3,3,3-hexachloro-	1000 (454)
2-Propenenitrile	100 (45.4)
2-Propenenitrile, 2-methyl-	1000 (454)
2-Propenoic acid	5000 (2270)
2-Propenoic acid, ethyl ester	1000 (454)
2-Propenoic acid, 2-methyl-, ethyl ester	1000 (454)
2-Propenoic acid, 2-methyl-, methyl ester	1000 (454)
2-Propen-1-ol	100 (45.4)
beta-Propioaldehyde	1000 (454)
Propionic acid	5000 (2270)
Propionic acid, 2-(2,4,5-trichlorophenoxy)-	100 (45.4)
Propionic anhydride	5000 (2270)
Propoxur (baygon)	100 (45.4)
n-Propylamine	5000 (2270)
Propylene dichloride	1000 (454)
Propylene oxide	100 (45.4)
1,2-Propylenimine	1 (0.454)
2-Propyn-1-ol	1000 (454)
Pyrene	5000 (2270)
Pyrethrins	1 (0.454)
3,6-Pyridazinedione, 1,2-dihydro-	5000 (2270)
4-Pyridinamine	1000 (454)
Pyridine	1000 (454)
Pyridine, 2-methyl-	5000 (2270)
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)	100 (45.4)
2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	10 (4.54)
4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	10 (4.54)
Pyrrolidine, 1-nitroso-	1 (0.454)
Quinoline	5000 (2270)
RADIONUCLIDES	See table 2
Reserpine	5000 (2270)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Resorcinol	5000 (2270)
Saccharin and salts	100 (45.4)
Safrole	100 (45.4)
Selenious acid	10 (4.54)
Selenious acid, dithallium(1+) salt	1000 (454)
Selenium ¢	100 (45.4)
Selenium dioxide	10 (4.54)
Selenium oxide	10 (4.54)
Selenium sulfide	10 (4.54)
Selenium sulfide SeS2	10 (4.54)
Selenourea	1000 (454)
L-Serine, diazoacetate (ester)	1 (0.454)
Silver ¢	1000 (454)
Silver cyanide	1 (0.454)
Silver cyanide Ag(CN)	1 (0.454)
Silver nitrate	1 (0.454)
Silvex(2,4,5-TP)	100 (45.4)
Sodium	10 (4.54)
Sodium arsenate	1 (0.454)
Sodium arsenite	1 (0.454)
Sodium azide	1000 (454)
Sodium bichromate	10 (4.54)
Sodium bifluoride	100 (45.4)
Sodium bisulfite	5000 (2270)
Sodium chromate	10 (4.54)
Sodium cyanide	10 (4.54)
Sodium cyanide Na(CN)	10 (4.54)
Sodium dodecylbenzene sulfonate	1000 (454)
Sodium fluoride	1000 (454)
Sodium hydrosulfide	5000 (2270)
Sodium hydroxide	1000 (454)
Sodium hypochlorite	100 (45.4)
Sodium methylate	1000 (454)
Sodium nitrite	100 (45.4)
Sodium phosphate, dibasic	5000 (2270)
Sodium phosphate, tribasic	5000 (2270)
Sodium selenite	100 (45.4)
Streptozotocin	1 (0.454)
Strontium chromate	10 (4.54)
Strychnidin-10-one	10 (4.54)
Strychnidin-10-one, 2,3-dimethoxy-	100 (45.4)
Strychnine and salts	10 (4.54)
Styrene	1000 (454)
Styrene oxide	100 (45.4)
Sulfur chloride @	1000 (454)
Sulfur monochloride	1000 (454)
Sulfur phosphide	100 (45.4)
Sulfuric acid	1000 (454)
Sulfuric acid, dimethyl ester	100 (45.4)
Sulfuric acid, dithallium(I+) salt	100 (45.4)
2,4,5-T	1000 (454)
2,4,5-T acid	1000 (454)
2,4,5-T amines	5000 (2270)
2,4,5-T esters	1000 (454)
2,4,5-T salts	1000 (454)
TDE	1 (0.454)
1,2,4,5-Tetrachlorobenzene	5000 (2270)
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1 (0.454)
1,1,1,2-Tetrachloroethane	100 (45.4)
1,1,2,2-Tetrachloroethane	100 (45.4)
Tetrachloroethane @	100 (45.4)
Tetrachloroethene	100 (45.4)
Tetrachloroethylene	100 (45.4)
2,3,4,6-Tetrachlorophenol	10 (4.54)
Tetraethyl lead	10 (4.54)
Tetraethyl pyrophosphate	10 (4.54)
Tetraethyldithiopyrophosphate	100 (45.4)
Tetrahydrofuran	1000 (454)
Tetranitromethane	10 (4.54)
Tetraphosphoric acid, hexaethyl ester	100 (45.4)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Thallic oxide	100 (45.4)
Thallium ¢	1000 (454)
Thallium(I) acetate	100 (45.4)
Thallium(I) carbonate	100 (45.4)
Thallium(I) chloride	100 (45.4)
Thallium chloride TlCl	100 (45.4)
Thallium(I) nitrate	100 (45.4)
Thallium oxide T1203	100 (45.4)
Thallium selenite	1000 (454)
Thallium(I) sulfate	100 (45.4)
Thioacetamide	10 (4.54)
Thiodiphosphoric acid, tetraethyl ester	100 (45.4)
Thiofanox	100 (45.4)
Thioimidodicarbonic diamide $[(H_2N)C(S)]_2NH$	100 (45.4)
Thiomethanol	100 (45.4)
Thioperoxydicarbonic diamide $[(H_2N)C(S)]_2S_2$, tetramethyl-	10 (4.54)
Thiophenol	100 (45.4)
Thiosemicarbazide	100 (45.4)
Thiourea	10 (4.54)
Thiourea, (2-chlorophenyl)-	100 (45.4)
Thiourea, 1-naphthalenyl-	100 (45.4)
Thiourea, phenyl-	100 (45.4)
Thiram	10 (4.54)
Titanium tetrachloride	1000 (454)
Toluene	1000 (454)
Toluenediamine	10 (4.54)
Toluene diisocyanate	100 (45.4)
o-Toluidine	100 (45.4)
p-Toluidine	100 (45.4)
o-Toluidine hydrochloride	100 (45.4)
Toxaphene	1 (0.454)
2,4,5-TP acid	100 (45.4)
2,4,5-TP acid esters	100 (45.4)
1H-1,2,4-Triazol-3-amine	10 (4.54)
Trichlorfon	100 (45.4)
1,2,4-Trichlorobenzene	100 (45.4)
1,1,1-Trichloroethane	1000 (454)
1,1,2-Trichloroethane	100 (45.4)
Trichloroethene	100 (45.4)
Trichloroethylene	100 (45.4)
Trichloromethanesulfenyl chloride	100 (45.4)
Trichloromonofluoromethane	5000 (2270)
Trichlorophenol	10 (4.54)
2,3,4-Trichlorophenol	.....
2,3,5-Trichlorophenol.	
2,3,6-Trichlorophenol	.....
2,4,5-Trichlorophenol	.....
2,4,6-Trichlorophenol	.....
3,4,5-Trichlorophenol	.....
2,4,5-Trichlorophenol	10 (4.54)
2,4,6-Trichlorophenol	10 (4.54)
Triethanolamine dodecylbenzene sulfonate	1000 (454)
Triethylamine	5000 (2270)
Trifluralin	10 (4.54)
Trimethylamine	100 (45.4)
2,2,4–Trimethylpentane	1000 (454)
1,3,5-Trinitrobenzene	10 (4.54)
1,3,5-Trioxane, 2,4,6-trimethyl-	1000 (454)
Tris(2,3-dibromopropyl) phosphate	10 (4.54)
Trypan blue	10 (4.54)
Uracil mustard	10 (4.54)
Uranyl acetate	100 (45.4)
Uranyl nitrate	100 (45.4)
Urea, N-ethyl-N-nitroso-	1 (0.454)
Urea, N-methyl-N-nitroso-	1 (0.454)
Vanadic acid, ammonium salt	1000 (454)
Vanadium oxide V_20_5	1000 (454)
Vanadium pentoxide	1000 (454)
Vanadyl sulfate	1000 (454)
Vinyl acetate	5000 (2270)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Vinyl acetate monomer	5000 (2270)
Vinylamine, N-methyl-N-nitroso-	10 (4.54)
Vinyl bromide	100 (45.4)
Vinyl chloride	1 (0.454)
Vinylidene chloride	100 (45.4)
Warfarin, & salts, when present at concentrations greater than 0.3%	100 (45.4)
Xylene	100 (45.4)
m-Xylene	1000 (454)
o-Xylene	1000 (454)
p-Xylene	100 (45.4)
Xylene (mixed)	100 (45.4)
Xylenes (isomers and mixture)	100 (45.4)
Xylenol	1000 (454)
Yohimban-16-carboxylic acid,11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-,	
methyl ester (3beta,16beta,17alpha,18beta,20alpha)-	5000 (2270)
Zinc ¢	1000 (454)
Zinc acetate	1000 (454)
Zinc ammonium chloride	1000 (454)
Zinc borate	1000 (454)
Zinc bromide	1000 (454)
Zinc carbonate	1000 (454)
Zinc chloride	1000 (454)
Zinc cyanide	10 (4.54)
Zinc cyanide $Zn(CN)_2$	10 (4.54)
Zinc fluoride	1000 (454)
Zinc formate	1000 (454)
Zinc hydrosulfite	1000 (454)
Zinc nitrate	1000 (454)
Zinc phenolsulfonate	5000 (2270)
Zinc phosphide	100 (45.4)
Zinc phosphide Zn_3P_2, when present at concentrations greater than 10%	100 (45.4)
Zinc silicofluoride	5000 (2270)
Zinc sulfate	1000 (454)
Zirconium nitrate	5000 (2270)
Zirconium potassium fluoride	1000 (454)
Zirconium sulfate	5000 (2270)
Zirconium tetrachloride	5000 (2270)
D001 Unlisted Hazardous Wastes Characteristic of Ignitability	100 (45.4)
D002 Unlisted Hazardous Wastes Characteristic of Corrosivity	100 (45.4)
D003 Unlisted Hazardous Wastes Characteristic of Reactivity	100 (45.4)
D004-D043 Unlisted Hazardous Wastes Characteristic of Toxicity	.....
D004 Arsenic	1 (0.454)
D005 Barium	1000 (454)
D006 Cadmium	10 (4.54)
D007 Chromium	10 (4.54)
D008 Lead	10 (4.54)
D009 Mercury	1 (0.454)
D010 Selenium	10 (4.54)
D011 Silver	1 (0.454)
D012 Endrin	1 (0.454)
D013 Lindane	1 (0.454)
D014 Methoxychlor	1 (0.454)
D015 Toxaphene	1 (0.454)
D016 2,4-D	100 (45.4)
D017 2,4,5-TP	100 (45.4)
D018 Benzene	10 (4.54)
D019 Carbon tetrachloride	10 (4.54)
D020 Chlordane	1 (0.454)
D021 Chlorobenzene	100 (45.4)
D022 Chloroform	10 (4.54)
D023 o-Cresol	100 (45.4)
D024 m-Cresol	100 (45.4)
D025 p-Cresol	100 (45.4)
D026 Cresol	100 (45.4)
D027 1,4-Dichlorobenzene	100 (45.4)
D028 1,2-Dichloroethane	100 (45.4)
D029 1,1-Dichloroethylene	100 (45.4)
D030 2,4-Dinitrotoluene	10 (4.54)
D031 Heptachlor (and hydroxide)	1 (0.454)
D032 Hexachlorobenzene	10 (4.54)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
D033 Hexachlorobutadiene	1 (0.454)
D034 Hexachloroethane	100 (45.4)
D035 Methyl ethyl ketone	5000 (2270)
D036 Nitrobenzene	1000 (454)
D037 Pentachlorophenol	10 (4.54)
D038 Pyridine	1000 (454)
D039 Tetrachloroethylene	100 (45.4)
D040 Tricholorethylene	100 (45.4)
D041 2,4,5–Trichlorophenol	10 (4.54)
D042 2,4,6–Trichlorophenol	10 (4.54)
D043 Vinyl chloride	1 (0.454)
F001	
The following spent halogenated solvents used in degreasing; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the below listed halogenated solvents or those solvents listed in F002, F004 and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	10 (4.54)
(a) Tetrachloroethylene	100 (45.4)
(b) Trichloroethylene	100 (45.4)
(c) Methylene chloride	1000 (454)
(d) 1,1,1–Trichloroethane	1000 (454)
(e) Carbon tetrachloride	10 (4.54)
(f) Chlorinated fluorocarbons	5000 (2270)
F002	
The following spent halogenated solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the below listed halogenated solvents or those listed in F001, F004, F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	10 (4.54)
(a) Tetrachloroethylene	100 (45.4)
(b) Methylene chloride	1000 (454)
(c) Trichloroethylene	100 (45.4)
(d) 1,1,1–Trichloroethane	1000 (454)
(e) Chlorobenzene	100 (45.4)
(f) 1,1,2–Trichloro-1,2,2-trifluoroethane	5000 (2270)
(g) o-Dichlorobenzene	100 (45.4)
(h) Trichlorofluoromethane	5000 (2270)
(i) 1,1,2 Trichloroethane	100 (45.4)
F003	
The following spent non-halogenated solvents and solvents:	100 (45.4)
(a) Xylene	1000 (454)
(b) Acetone	5000 (2270)
(c) Ethyl acetate	5000 (2270)
(d) Ethylbenzene	1000 (454)
(e) Ethyl ether	100 (45.4)
(f) Methyl isobutyl ketone	5000 (2270)
(g) n-Butyl alcohol	5000 (2270)
(h) Cyclohexanone	5000 (2270)
(i) Methanol	5000 (2270)
F004	100 (45.4)
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents:.	
(a) Cresols/Cresylic acid	1000 (454)
(b) Nitrobenzene	100 (45.4)
F005	
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents:	100 (45.4)
(a) Toluene	1000 (454)
(b) Methyl ethyl ketone	5000 (2270)
(c) Carbon disulfide	100 (45.4)
(d) Isobutanol	5000 (2270)
(e) Pyridine	1000 (454)
F006	
Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum, (2) tin plating on carbon steel, (3) zinc plating (segregated basis) on carbonsteel, (4) aluminum or zinc-aluminum plating on carbon steel, (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel, and (6) chemical etching and milling of aluminum	10 (4.54)
F007	
Spent cyanide plating bath solutions from electroplating operations	10 (4.54)
F008	
Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process	10 (4.54)
F009	
Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process	10 (4.54)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
F010	
Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process	10 (4.54)
F011	
Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations (except for precious metals heat treating spent cyanide solutions from salt bath pot cleaning)	10 (4.54)
F012	
Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process	10 (4.54)
F019	
Wastewater treatment sludges from the chemical conversion coating of aluminum—except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process	10 (4.54)
F020	
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of hexachlorophene from highly purified 2,4,5-trichlorophenol.)	1 (0.454)
F021	
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.	1 (0.454)
F022	
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.	1 (0.454)
F023	
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)	1 (0.454)
F024	
Wastes, including but not limited to distillation residues, heavy ends, tars, and reactor cleanout wastes, from the production of chlorinated aliphatichydrocarbons, having carbon content from one to five, utilizing free radical catalyzed processes. (This listing does not include light ends, spent filters and filter aids, spent dessicants(sic), wastewater, wastewater treatment sludges, spent catalysts, and wastes listed in 40 CFR 261.32.)	1 (0.454)
F025	
Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution	1 (0.454)
F026	
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.	1 (0.454)
F027	
Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)	1 (0.454)
F028	
Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.	1 (0.454)
F032	1 (0.454)
F034	1 (0.454)
F035	1 (0.454)
F037	1 (0.454)
F038	1 (0.454)
F039	
Multi source leachate	1 (0.454)
K001	
Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol	1 (0.454)
K002	
Wastewater treatment sludge from the production of chrome yellow and orange pigments	10 (4.54)
K003	
Wastewater treatment sludge from the production of molybdate orange pigments	10 (4.54)
K004	
Wastewater treatment sludge from the production of zinc yellow pigments	10 (4.54)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
K005	
Wastewater treatment sludge from the production of chrome green pigments	10 (4.54)
K006	
Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated)	10 (4.54)
K007	
Wastewater treatment sludge from the production of iron blue pigments	10 (4.54)
K008	
Oven residue from the production of chrome oxide green pigments	10 (4.54)
K009	
Distillation bottoms from the production of acetaldehyde from ethylene	10 (4.54)
K010	
Distillation side cuts from the production of acetaldehyde from ethylene	10 (4.54)
K011	
Bottom stream from the wastewater stripper in the production of acrylonitrile	10 (4.54)
K013	
Bottom stream from the acetonitrile column in the production of acrylonitrile	10 (4.54)
K014	
Bottoms from the acetonitrile purification column in the production of acrylonitrile	5000 (2270)
K015	
Still bottoms from the distillation of benzyl chloride	10 (4.54)
K016	
Heavy ends or distillation residues from the production of carbon tetrachloride	1 (0.454)
K017	
Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin	10 (4.54)
K018	
Heavy ends from the fractionation column in ethyl chloride production	1 (0.454)
K019	
Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	1 (0.454)
K020	
Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production	1 (0.454)
K021	
Aqueous spent antimony catalyst waste from fluoromethanes production	10 (4.54)
K022	
Distillation bottom tars from the production of phenol/acetone from cumene	1 (0.454)
K023	
Distillation light ends from the production of phthalic anhydride from naphthalene	5000 (2270)
K024	
Distillation bottoms from the production of phthalic anhydride from naphthalene	5000 (2270)
K025	
Distillation bottoms from the production of nitrobenzene by the nitration of benzene	10 (4.54)
K026	
Stripping still tails from the production of methyl ethyl pyridines	1000 (454)
K027	
Centrifuge and distillation residues from toluene diisocyanate production	10 (4.54)
K028	
Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane	1 (0.454)
K029	
Waste from the product steam stripper in the production of 1,1,1-trichloroethane	1 (0.454)
K030	
Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene	1 (0.454)
K031	
By-product salts generated in the production of MSMA and cacodylic acid	1 (0.454)
K032	
Wastewater treatment sludge from the production of chlordane	10 (4.54)
K033	
Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane	10 (4.54)
K034	
Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane	10 (4.54)
K035	
Wastewater treatment sludges generated in the production of creosote	1 (0.454)
K036	
Still bottoms from toluene reclamation distillation in the production of disulfoton	1 (0.454)
K037	
Wastewater treatment sludges from the production of disulfoton	1 (0.454)
K038	
Wastewater from the washing and stripping of phorate production	10 (4.54)
K039	
Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate	10 (4.54)
K040	
Wastewater treatment sludge from the production of phorate	10 (4.54)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
K041	
Wastewater treatment sludge from the production of toxaphene	1 (0.454)
K042	
Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5–T	10 (4.54)
K043	
2,6-dichlorophenol waste from the production of 2,4–D	10 (4.54)
K044	
Wastewater treatment sludges from the manufacturing and processing of explosives	10 (4.54)
K045	
Spent carbon from the treatment of wastewater containing explosives	10 (4.54)
K046	
Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds	10 (4.54)
K047	
Pink/red water from TNT operations	10 (4.54)
K048	
Dissolved air flotation (DAF) float from the petroleum refining industry	10 (4.54)
K049	
Slop oil emulsion solids from the petroleum refining industry	10 (4.54)
K050	
Heat exchanger bundle cleaning sludge from the petroleum refining industry	10 (4.54)
K051	
API separator sludge from the petroleum refining industry	10 (4.54)
K052	
Tank bottoms (leaded) from the petroleum refining industry	10 (4.54)
K060	
Ammonia still lime sludge from coking operations	1 (0.454)
K061	
Emission control dust/sludge from the primary production of steel in electric furnaces	10 (4.54)
K062	
Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry	10 (4.54)
K064	
Acid plant blowdown slurry/sludge resulting from thickening of blowdown slurry from primary copper production.	10 (4.54)
K065	
Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.	10 (4.54)
K066	
Sludge from treatment of process wastewater and /or acid plant blowdown from primary zinc production.	10 (4.54)
K069	
Emission control dust/sludge from secondary lead smelting	10 (4.54)
K071	
Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used	1 (0.454)
K073	
Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	10 (4.54)
K083	
Distillation bottoms from aniline extraction	100 (45.4)
K084	
Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds	1 (0.454)
K085	
Distillation or fractionation column bottoms from the production of chlorobenzenes	10 (4.54)
K086	
Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead	10 (4.54)
K087	
Decanter tank tar sludge from coking operations	100 (45.4)
K088	10 (4.54)
Spent potliners from primary aluminum reduction..	
K090	10 (4.54)
Emission control dust or sludge from ferrochromiumsilicon production.	
K091	10 (4.54)
Emission control dust or sludge from ferrochromium production.	
K093	
Distillation light ends from the production of phthalic anhydride from ortho-xylene	5000 (2270)
K094	
Distillation bottoms from the production of phthalic anhydride from ortho-xylene	5000 (2270)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
K095	
Distillation bottoms from the production of 1,1,1-trichloroethane.	100 (45.4)
K096	
Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.	100 (45.4)
K097	
Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane	1 (0.454)
K098	
Untreated process wastewater from the production of toxaphene	1 (0.454)
K099	
Untreated wastewater from the production of 2,4-D	10 (4.54)
K100	
Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting	10 (4.54)
K101	
Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds	1 (0.454)
K102	
Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds	1 (0.454)
K103	
Process residues from aniline extraction from the production of aniline	100 (45.4)
K104	
Combined wastewater streams generated from nitrobenzene/aniline chlorobenzenes	10 (4.54)
K105	
Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes	10 (4.54)
K106	
Wastewater treatment sludge from the mercury cell process in chlorine production	1 (0.454)
K107	
Column bottoms from product seperation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazines	10 (4.54)
K108	
Condensed column overheads from product seperation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides	10 (4.54)
K109	
Spent filter cartidges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydazides	10 (4.54)
K110	
Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazines (UDMH) from carboxylic acid hydrazides	10 (4.54)
K111	
Product washwaters from the production of dinitrotoluene via nitration of toluene.	10 (4.54)
K112	
Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.	10 (4.54)
K113	
Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	10 (4.54)
K114	
Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	10 (4.54)
K115	
Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	10 (4.54)
K116	
Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.	10 (4.54)
K117	
Wastewater from the reaction vent gas scrubber in the production of ethylene bromide via bromination of ethene.	1 (0.454)
K118	
Spent absorbent solids from purification of ethylene dibromide in the production of ethylene dibromide.	1 (0.454)
K123	
Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salts.	10 (4.54)
K124	
Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	10 (4.54)
K125	
Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.	10 (4.54)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES—Continued

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
K126	
Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.	10 (4.54)
K131	
Waste water from the reactor and spent sulfuric acid from the acid dryer in the production of methyl bromide	100 (45.4)
K132	
Spent absorbent and wastewater solids from the production of methyl bromide	1000 (454)
K136	
Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	1 (0.454)
K141	1 (0.454)
K142	1 (0.454)
K143	1 (0.454)
K144	1 (0.454)
K145	1 (0.454)
K147	1 (0.454)
K148	1 (0.454)
K149	10 (4.54)
K150	10 (4.54)
K151	10 (4.54)
K156	1 (0.454)
K157	1 (0.454)
K158	1 (0.454)
K169	10 (4.54)
K170	1 (0.454)
K171	1 (0.454)
K172	1 (0.454)
K174	1 (0.454)
K175	1 (0.454)
K176	1 (0.454)
K177	5000 (2270)
K178	1 (0.454)

FOOTNOTES:
¢ The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches)
¢¢ The RQ for asbestos is limited to friable forms only
@ Indicates that the name was added by PHMSA because (1) the name is a synonym for a specific hazardous substance and (2) the name appears in the Hazardous Materials Table as a proper shipping name.

LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

TABLE 2 TO APPENDIX A—RADIONUCLIDES

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Actinium-224	89	100 (3.7)
Actinium-225	89	1 (.037)
Actinium-226	89	10 (.37)
Actinium-227	89	0.001 (.000037)
Actinium-228	89	10 (.37)
Aluminum-26	13	10 (.37)
Americium-237	95	1000 (37)
Americium-238	95	100 (3.7)
Americium-239	95	100 (3.7)
Americium-240	95	10 (.37)
Americium-241	95	0.01 (.00037)
Americium-242	95	100 (3.7)
Americium-242m	95	0.01 (.00037)
Americium-243	95	0.01 (.00037)
Americium-244	95	10 (.37)
Americium-244m	95	1000 (37)
Americium-245	95	1000 (37)
Americium-246	95	1000 (37)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Americium-246m	95	1000 (37)
Antimony-115	51	1000 (37)
Antimony-116	51	1000 (37)
Antimony-116m	51	100 (3.7)
Antimony-117	51	1000 (37)
Antimony-118m	51	10 (.37)
Antimony-119	51	1000 (37)
Antimony-120 (16 min)	51	1000 (37)
Antimony-120 (5.76 day)	51	10 (.37)
Antimony-122	51	10 (.37)
Antimony-124	51	10 (.37)
Antimony-124m	51	1000 (37)
Antimony-125	51	10 (.37)
Antimony-126	51	10 (.37)
Antimony-126m	51	1000 (37)
Antimony-127	51	10 (.37)
Antimony-128 (10.4 min)	51	1000 (37)
Antimony-128 (9.01 hr)	51	10 (.37)
Antimony-129	51	100 (3.7)
Antimony-130	51	100 (3.7)
Antimony-131	51	1000 (37)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Argon-39	18	1000 (37)
Argon-41	18	10 (.37)
Arsenic-69	33	1000 (37)
Arsenic-70	33	100 (3.7)
Arsenic-71	33	100 (3.7)
Arsenic-72	33	10 (.37)
Arsenic-73	33	100 (3.7)
Arsenic-74	33	10 (.37)
Arsenic-76	33	100 (3.7)
Arsenic-77	33	1000 (37)
Arsenic-78	33	100 (3.7)
Astatine-207	85	100 (3.7)
Astatine-211	85	100 (3.7)
Barium-126	56	1000 (37)
Barium-128	56	10 (.37)
Barium-131	56	10 (.37)
Barium-131m	56	1000 (37)
Barium-133	56	10 (.37)
Barium-133m	56	100 (3.7)
Barium-135m	56	1000 (37)
Barium-139	56	1000 (37)
Barium-140	56	10 (.37)
Barium-141	56	1000 (37)
Barium-142	56	1000 (37)
Berkelium-245	97	100 (3.7)
Berkelium-246	97	10 (.37)
Berkelium-247	97	0.01 (.00037)
Berkelium-249	97	1 (.037)
Berkelium-250	97	100 (3.7)
Beryllium-10	4	1 (.037)
Beryllium-7	4	100 (3.7)
Bismuth-200	83	100 (3.7)
Bismuth-201	83	100 (3.7)
Bismuth-202	83	1000 (37)
Bismuth-203	83	10 (.37)
Bismuth-205	83	10 (.37)
Bismuth-206	83	10 (.37)
Bismuth-207	83	10 (.37)
Bismuth-210	83	10 (.37)
Bismuth-210m	83	0.1 (.0037)
Bismuth-212	83	100 (3.7)
Bismuth-213	83	100 (3.7)
Bismuth-214	83	100 (3.7)
Bromine-74	35	100 (3.7)
Bromine-74m	35	100 (3.7)
Bromine-75	35	100 (3.7)
Bromine-76	35	10 (.37)
Bromine-77	35	100 (3.7)
Bromine-80	35	1000 (37)
Bromine-80m	35	1000 (37)
Bromine-82	35	10 (.37)
Bromine-83	35	1000 (37)
Bromine-84	35	100 (3.7)
Cadmium-104	48	1000 (37)
Cadmium-107	48	1000 (37)
Cadmium-109	48	1 (.037)
Cadmium-113	48	0.1 (.0037)
Cadmium-113m	48	0.1 (.0037)
Cadmium-115	48	100 (3.7)
Cadmium-115m	48	10 (.37)
Cadmium-117	48	100 (3.7)
Cadmium-117m	48	10 (.37)
Calcium-41	20	10 (.37)
Calcium-45	20	10 (.37)
Calcium-47	20	10 (.37)
Californium-244	98	1000 (37)
Californium-246	98	10 (.37)
Californium-248	98	0.1 (.0037)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Californium-249	98	0.01 (.00037)
Californium-250	98	0.01 (.00037)
Californium-251	98	0.01 (.00037)
Californium-252	98	0.1 (.0037)
Californium-253	98	10 (.37)
Californium-254	98	0.1 (.0037)
Carbon-11	6	1000 (37)
Carbon-14	6	10 (.37)
Cerium-134	58	10 (.37)
Cerium-135	58	10 (.37)
Cerium-137	58	1000 (37)
Cerium-137m	58	100 (3.7)
Cerium-139	58	100 (3.7)
Cerium-141	58	10 (.37)
Cerium-143	58	100 (3.7)
Cerium-144	58	1 (.037)
Cesium-125	55	1000 (37)
Cesium-127	55	100 (3.7)
Cesium-129	55	100 (3.7)
Cesium-130	55	1000 (37)
Cesium-131	55	1000 (37)
Cesium-132	55	10 (.37)
Cesium-134	55	1 (.037)
Cesium-134m	55	1000 (37)
Cesium-135	55	10 (.37)
Cesium-135m	55	100 (3.7)
Cesium-136	55	10 (.37)
Cesium-137	55	1 (.037)
Cesium-138	55	100 (3.7)
Chlorine-36	17	10 (.37)
Chlorine-38	17	100 (3.7)
Chlorine-39	17	100 (3.7)
Chromium-48	24	100 (3.7)
Chromium-49	24	1000 (37)
Chromium-51	24	1000 (37)
Cobalt-55	27	10 (.37)
Cobalt-56	27	10 (.37)
Cobalt-57	27	100 (3.7)
Cobalt-58	27	10 (.37)
Cobalt-58m	27	1000 (37)
Cobalt-60	27	10 (.37)
Cobalt-60m	27	1000 (37)
Cobalt-61	27	1000 (37)
Cobalt-62m	27	1000 (37)
Copper-60	29	100 (3.7)
Copper-61	29	100 (3.7)
Copper-64	29	1000 (37)
Copper-67	29	100 (3.7)
Curium-238	96	1000 (37)
Curium-240	96	1 (.037)
Curium-241	96	10 (.37)
Curium-242	96	1 (.037)
Curium-243	96	0.01 (.00037)
Curium-244	96	0.01 (.00037)
Curium-245	96	0.01 (.00037)
Curium-246	96	0.01 (.00037)
Curium-247	96	0.01 (.00037)
Curium-248	96	0.001 (.000037)
Curium-249	96	1000 (37)
Dysprosium-155	66	100 (3.7)
Dysprosium-157	66	100 (3.7)
Dysprosium-159	66	100 (3.7)
Dysprosium-165	66	1000 (37)
Dysprosium-166	66	10 (.37)
Einsteinium-250	99	10 (.37)
Einsteinium-251	99	1000 (37)
Einsteinium-253	99	10 (.37)
Einsteinium-254	99	0.1 (.0037)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Einsteinium-254m	99	1 (.037)
Erbium-161	68	100 (3.7)
Erbium-165	68	1000 (37)
Erbium-169	68	100 (3.7)
Erbium-171	68	100 (3.7)
Erbium-172	68	10 (.37)
Europium-145	63	10 (.37)
Europium-146	63	10 (.37)
Europium-147	63	10 (.37)
Europium-148	63	10 (.37)
Europium-149	63	100 (3.7)
Europium-150 (12.6 hr)	63	1000 (37)
Europium-150 (34.2 yr)	63	10 (.37)
Europium-152	63	10 (.37)
Europium-152m	63	100 (3.7)
Europium-154	63	10 (.37)
Europium-155	63	10 (.37)
Europium-156	63	10 (.37)
Europium-157	63	10 (.37)
Europium-158	63	1000 (37)
Fermium-252	100	10 (.37)
Fermium-253	100	10 (.37)
Fermium-254	100	100 (3.7)
Fermium-255	100	100 (3.7)
Fermium-257	100	1 (.037)
Fluorine-18	9	1000 (37)
Francium-222	87	100 (3.7)
Francium-223	87	100 (3.7)
Gadolinium-145	64	100 (3.7)
Gadolinium-146	64	10 (.37)
Gadolinium-147	64	10 (.37)
Gadolinium-148	64	0.001 (.000037)
Gadolinium-149	64	100 (3.7)
Gadolinium-151	64	100 (3.7)
Gadolinium-152	64	0.001 (.000037)
Gadolinium-153	64	10 (.37)
Gadolinium-159	64	1000 (37)
Gallium-65	31	1000 (37)
Gallium-66	31	10 (.37)
Gallium-67	31	100 (3.7)
Gallium-68	31	1000 (37)
Gallium-70	31	1000 (37)
Gallium-72	31	10 (.37)
Gallium-73	31	100 (3.7)
Germanium-66	32	100 (3.7)
Germanium-67	32	1000 (37)
Germanium-68	32	10 (.37)
Germanium-69	32	10 (.37)
Germanium-71	32	1000 (37)
Germanium-75	32	1000 (37)
Germanium-77	32	10 (.37)
Germanium-78	32	1000 (37)
Gold-193	79	100 (3.7)
Gold-194	79	10 (.37)
Gold-195	79	100 (3.7)
Gold-198	79	100 (3.7)
Gold-198m	79	10 (.37)
Gold-199	79	100 (3.7)
Gold-200	79	1000 (37)
Gold-200m	79	10 (.37)
Gold-201	79	1000 (37)
Hafnium-170	72	100 (3.7)
Hafnium-172	72	1 (.037)
Hafnium-173	72	100 (3.7)
Hafnium-175	72	100 (3.7)
Hafnium-177m	72	1000 (37)
Hafnium-178m	72	0.1 (.0037)
Hafnium-179m	72	100 (3.7)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Hafnium-180m	72	100 (3.7)
Hafnium-181	72	10 (.37)
Hafnium-182	72	0.1 (.0037)
Hafnium-182m	72	100 (3.7)
Hafnium-183	72	100 (3.7)
Hafnium-184	72	100 (3.7)
Holmium-155	67	1000 (37)
Holmium-157	67	1000 (37)
Holmium-159	67	1000 (37)
Holmium-161	67	1000 (37)
Holmium-162	67	1000 (37)
Holmium-162m	67	1000 (37)
Holmium-164	67	1000 (37)
Holmium-164m	67	1000 (37)
Holmium-166	67	100 (3.7)
Holmium-166m	67	1 (.037)
Holmium-167	67	100 (3.7)
Hydrogen-3	1	100 (3.7)
Indium-109	49	100 (3.7)
Indium-110 (4.9 hr)	49	10 (.37)
Indium-110 (69.1 min)	49	100 (3.7)
Indium-111	49	100 (3.7)
Indium-112	49	1000 (37)
Indium-113m	49	1000 (37)
Indium-114m	49	10 (.37)
Indium-115	49	0.1 (.0037)
Indium-115m	49	100 (3.7)
Indium-116m	49	100 (3.7)
Indium-117	49	1000 (37)
Indium-117m	49	100 (3.7)
Indium-119m	49	1000 (37)
Iodine-120	53	10 (.37)
Iodine-120m	53	100 (3.7)
Iodine-121	53	100 (3.7)
Iodine-123	53	10 (.37)
Iodine-124	53	0.1 (.0037)
Iodine-125	53	0.01 (.00037)
Iodine-126	53	0.01 (.00037)
Iodine-128	53	1000 (37)
Iodine-129	53	0.001 (.000037)
Iodine-130	53	1 (.037)
Iodine-131	53	0.01 (.00037)
Iodine-132	53	10 (.37)
Iodine-132m	53	10 (.37)
Iodine-133	53	0.1 (.0037)
Iodine-134	53	100 (3.7)
Iodine-135	53	10 (.37)
Iridium-182	77	1000 (37)
Iridium-184	77	100 (3.7)
Iridium-185	77	100 (3.7)
Iridium-186	77	10 (.37)
Iridium-187	77	100 (3.7)
Iridium-188	77	10 (.37)
Iridium-189	77	100 (3.7)
Iridium-190	77	10 (.37)
Iridium-190m	77	1000 (37)
Iridium-192	77	10 (.37)
Iridium-192m	77	100 (3.7)
Iridium-194	77	100 (3.7)
Iridium-194m	77	10 (.37)
Iridium-195	77	1000 (37)
Iridium-195m	77	100 (3.7)
Iron-52	26	100 (3.7)
Iron-55	26	100 (3.7)
Iron-59	26	10 (.37)
Iron-60	26	0.1 (.0037)
Krypton-74	36	10 (.37)
Krypton-76	36	10 (.37)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Krypton-77	36	10 (.37)
Krypton-79	36	100 (3.7)
Krypton-81	36	1000 (37)
Krypton-83m	36	1000 (37)
Krypton-85	36	1000 (37)
Krypton-85m	36	100 (3.7)
Krypton-87	36	10 (.37)
Krypton-88	36	10 (.37)
Lanthanum-131	57	1000 (37)
Lanthanum-132	57	100 (3.7)
Lanthanum-135	57	1000 (37)
Lanthanum-137	57	10 (.37)
Lanthanum-138	57	1 (.037)
Lanthanum-140	57	10 (.37)
Lanthanum-141	57	1000 (37)
Lanthanum-142	57	100 (3.7)
Lanthanum-143	57	1000 (37)
Lead-195m	82	1000 (37)
Lead-198	82	100 (3.7)
Lead-199	82	100 (3.7)
Lead-200	82	100 (3.7)
Lead-201	82	100 (3.7)
Lead-202	82	1 (.037)
Lead-202m	82	10 (.37)
Lead-203	82	100 (3.7)
Lead-205	82	100 (3.7)
Lead-209	82	1000 (37)
Lead-210	82	0.01 (.00037)
Lead-211	82	100 (3.7)
Lead-212	82	10 (.37)
Lead-214	82	100 (3.7)
Lutetium-169	71	10 (.37)
Lutetium-170	71	10 (.37)
Lutetium-171	71	10 (.37)
Lutetium-172	71	10 (.37)
Lutetium-173	71	100 (3.7)
Lutetium-174	71	10 (.37)
Lutetium-174m	71	10 (.37)
Lutetium-176	71	1 (.037)
Lutetium-176m	71	1000 (37)
Lutetium-177	71	100 (3.7)
Lutetium-177m	71	10 (.37)
Lutetium-178	71	1000 (37)
Lutetium-178m	71	1000 (37)
Lutetium-179	71	1000 (37)
Magnesium-28	12	10 (.37)
Manganese-51	25	1000 (37)
Manganese-52	25	10 (.37)
Manganese-52m	25	1000 (37)
Manganese-53	25	1000 (37)
Manganese-54	25	10 (.37)
Manganese-56	25	100 (3.7)
Mendelevium-257	101	100 (3.7)
Mendelevium-258	101	1 (.037)
Mercury-193	80	100 (3.7)
Mercury-193m	80	10 (.37)
Mercury-194	80	0.1 (.0037)
Mercury-195	80	100 (3.7)
Mercury-195m	80	100 (3.7)
Mercury-197	80	1000 (37)
Mercury-197m	80	1000 (37)
Mercury-199m	80	1000 (37)
Mercury-203	80	10 (.37)
Molybdenum-101	42	1000 (37)
Molybdenum-90	42	100 (3.7)
Molybdenum-93	42	100 (3.7)
Molybdenum-93m	42	10 (.37)
Molybdenum-99	42	100 (3.7)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Neodymium-136	60	1000 (37)
Neodymium-138	60	1000 (37)
Neodymium-139	60	1000 (37)
Neodymium-139m	60	100 (3.7)
Neodymium-141	60	1000 (37)
Neodymium-147	60	10 (.37)
Neodymium-149	60	100 (3.7)
Neodymium-151	60	1000 (37)
Neptunium-232	93	1000 (37)
Neptunium-233	93	1000 (37)
Neptunium-234	93	10 (.37)
Neptunium-235	93	1000 (37)
Neptunium-236 (1.2 E 5 yr)	93	0.1 (.0037)
Neptunium-236 (22.5 hr)	93	100 (3.7)
Neptunium-237	93	0.01 (.00037)
Neptunium-238	93	10 (.37)
Neptunium-239	93	100 (3.7)
Neptunium-240	93	100 (3.7)
Nickel-56	28	10 (.37)
Nickel-57	28	10 (.37)
Nickel-59	28	100 (3.7)
Nickel-63	28	100 (3.7)
Nickel-65	28	100 (3.7)
Nickel-66	28	10 (.37)
Niobium-88	41	100 (3.7)
Niobium-89 (122 min)	41	100 (3.7)
Niobium-89 (66 min)	41	100 (3.7)
Niobium-90	41	10 (.37)
Niobium-93m	41	100 (3.7)
Niobium-94	41	10 (.37)
Niobium-95	41	10 (.37)
Niobium-95m	41	100 (3.7)
Niobium-96	41	10 (.37)
Niobium-97	41	100 (3.7)
Niobium-98	41	1000 (37)
Osmium-180	76	1000 (37)
Osmium-181	76	100 (3.7)
Osmium-182	76	100 (3.7)
Osmium-185	76	10 (.37)
Osmium-189m	76	1000 (37)
Osmium-191	76	100 (3.7)
Osmium-191m	76	1000 (37)
Osmium-193	76	100 (3.7)
Osmium-194	76	1 (.037)
Palladium-100	46	100 (3.7)
Palladium-101	46	100 (3.7)
Palladium-103	46	100 (3.7)
Palladium-107	46	100 (3.7)
Palladium-109	46	1000 (37)
Phosphorus-32	15	0.1 (.0037)
Phosphorus-33	15	1 (.037)
Platinum-186	78	100 (3.7)
Platinum-188	78	100 (3.7)
Platinum-189	78	100 (3.7)
Platinum-191	78	100 (3.7)
Platinum-193	78	1000 (37)
Platinum-193m	78	100 (3.7)
Platinum-195m	78	100 (3.7)
Platinum-197	78	1000 (37)
Platinum-197m	78	1000 (37)
Platinum-199	78	1000 (37)
Platinum-200	78	100 (3.7)
Plutonium-234	94	1000 (37)
Plutonium-235	94	1000 (37)
Plutonium-236	94	0.1 (.0037)
Plutonium-237	94	1000 (37)
Plutonium-238	94	0.01 (.00037)
Plutonium-239	94	0.01 (.00037)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Plutonium-240	94	0.01 (.00037)
Plutonium-241	94	1 (.037)
Plutonium-242	94	0.01 (.00037)
Plutonium-243	94	1000 (37)
Plutonium-244	94	0.01 (.00037)
Plutonium-245	94	100 (3.7)
Polonium-203	84	100 (3.7)
Polonium-205	84	100 (3.7)
Polonium-207	84	10 (.37)
Polonium-210	84	0.01 (.00037)
Potassium-40	19	1 (.037)
Potassium-42	19	100 (3.7)
Potassium-43	19	10 (.37)
Potassium-44	19	100 (3.7)
Potassium-45	19	1000 (37)
Praseodymium-136	59	1000 (37)
Praseodymium-137	59	1000 (37)
Praseodymium-138m	59	100 (3.7)
Praseodymium-139	59	1000 (37)
Praseodymium-142	59	100 (3.7)
Praseodymium-142m	59	1000 (37)
Praseodymium-143	59	10 (.37)
Praseodymium-144	59	1000 (37)
Praseodymium-145	59	1000 (37)
Praseodymium-147	59	1000 (37)
Promethium-141	61	1000 (37)
Promethium-143	61	100 (3.7)
Promethium-144	61	10 (.37)
Promethium-145	61	100 (3.7)
Promethium-146	61	10 (.37)
Promethium-147	61	10 (.37)
Promethium-148	61	10 (.37)
Promethium-148m	61	10 (.37)
Promethium-149	61	100 (3.7)
Promethium-150	61	100 (3.7)
Promethium-151	61	100 (3.7)
Protactinium-227	91	100 (3.7)
Protactinium-228	91	10 (.37)
Protactinium-230	91	10 (.37)
Protactinium-231	91	0.01 (.00037)
Protactinium-232	91	10 (.37)
Protactinium-233	91	100 (3.7)
Protactinium-234	91	10 (.37)
RADIONUCLIDES $†		1 (.037)
Radium-223	88	1 (.037)
Radium-224	88	10 (.37)
Radium-225	88	1 (.037)
Radium-226 **	88	0.1 (.0037)
Radium-227	88	1000 (37)
Radium-228	88	0.1 (.0037)
Radon-220	86	0.1 (.0037)
Radon-222	86	0.1 (.0037)
Rhenium-177	75	1000 (37)
Rhenium-178	75	1000 (37)
Rhenium-181	75	100 (3.7)
Rhenium-182 (12.7 hr)	75	10 (.37)
Rhenium-182 (64.0 hr)	75	10 (.37)
Rhenium-184	75	10 (.37)
Rhenium-184m	75	10 (.37)
Rhenium-186	75	100 (3.7)
Rhenium-186m	75	10 (.37)
Rhenium-187	75	1000 (37)
Rhenium-188	75	1000 (37)
Rhenium-188m	75	1000 (37)
Rhenium-189	75	1000 (37)
Rhodium-100	45	10 (.37)
Rhodium-101	45	10 (.37)
Rhodium-101m	45	100 (3.7)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Rhodium-102	45	10 (.37)
Rhodium-102m	45	10 (.37)
Rhodium-103m	45	1000 (37)
Rhodium-105	45	100 (3.7)
Rhodium-106m	45	10 (.37)
Rhodium-107	45	1000 (37)
Rhodium-99	45	10 (.37)
Rhodium-99m	45	100 (3.7)
Rubidium-79	37	1000 (37)
Rubidium-81	37	100 (3.7)
Rubidium-81m	37	1000 (37)
Rubidium-82m	37	10 (.37)
Rubidium-83	37	10 (.37)
Rubidium-84	37	10 (.37)
Rubidium-86	37	10 (.37)
Rubidium-87	37	10 (.37)
Rubidium-88	37	1000 (37)
Rubidium-89	37	1000 (37)
Ruthenium-103	44	10 (.37)
Ruthenium-105	44	100 (3.7)
Ruthenium-106	44	1 (.037)
Ruthenium-94	44	1000 (37)
Ruthenium-97	44	100 (3.7)
Samarium-141	62	1000 (37)
Samarium-141m	62	1000 (37)
Samarium-142	62	1000 (37)
Samarium-145	62	100 (3.7)
Samarium-146	62	0.01 (.00037)
Samarium-147	62	0.01 (.00037)
Samarium-151	62	10 (.37)
Samarium-153	62	100 (3.7)
Samarium-155	62	1000 (37)
Samarium-156	62	100 (3.7)
Scandium-43	21	1000 (37)
Scandium-44	21	100 (3.7)
Scandium-44m	21	10 (.37)
Scandium-46	21	10 (.37)
Scandium-47	21	100 (3.7)
Scandium-48	21	10 (.37)
Scandium-49	21	1000 (37)
Selenium-70	34	1000 (37)
Selenium-73	34	10 (.37)
Selenium-73m	34	100 (3.7)
Selenium-75	34	10 (.37)
Selenium-79	34	10 (.37)
Selenium-81	34	1000 (37)
Selenium-81m	34	1000 (37)
Selenium-83	34	1000 (37)
Silicon-31	14	1000 (37)
Silicon-32	14	1 (.037)
Silver-102	47	100 (3.7)
Silver-103	47	1000 (37)
Silver-104	47	1000 (37)
Silver-104m	47	1000 (37)
Silver-105	47	10 (.37)
Silver-106	47	1000 (37)
Silver-106m	47	10 (.37)
Silver-108m	47	10 (.37)
Silver-110m	47	10 (.37)
Silver-111	47	10 (.37)
Silver-112	47	100 (3.7)
Silver-115	47	1000 (37)
Sodium-22	11	10 (.37)
Sodium-24	11	10 (.37)
Strontium-80	38	100 (3.7)
Strontium-81	38	1000 (37)
Strontium-83	38	100 (3.7)
Strontium-85	38	10 (.37)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Strontium-85m	38	1000 (37)
Strontium-87m	38	100 (3.7)
Strontium-89	38	10 (.37)
Strontium-90	38	0.1 (.0037)
Strontium-91	38	10 (.37)
Strontium-92	38	100 (3.7)
Sulfur-35	16	1 (.037)
Tantalum-172	73	100 (3.7)
Tantalum-173	73	100 (3.7)
Tantalum-174	73	100 (3.7)
Tantalum-175	73	100 (3.7)
Tantalum-176	73	10 (.37)
Tantalum-177	73	1000 (37)
Tantalum-178	73	1000 (37)
Tantalum-179	73	1000 (37)
Tantalum-180	73	100 (3.7)
Tantalum-180m	73	1000 (37)
Tantalum-182	73	10 (.37)
Tantalum-182m	73	1000 (37)
Tantalum-183	73	100 (3.7)
Tantalum-184	73	10 (.37)
Tantalum-185	73	1000 (37)
Tantalum-186	73	1000 (37)
Technetium-101	43	1000 (37)
Technetium-104	43	1000 (37)
Technetium-93	43	100 (3.7)
Technetium-93m	43	1000 (37)
Technetium-94	43	10 (.37)
Technetium-94m	43	100 (3.7)
Technetium-96	43	10 (.37)
Technetium-96m	43	1000 (37)
Technetium-97	43	100 (3.7)
Technetium-97m	43	100 (3.7)
Technetium-98	43	10 (.37)
Technetium-99	43	10 (.37)
Technetium-99m	43	100 (3.7)
Tellurium-116	52	1000 (37)
Tellurium-121	52	10 (.37)
Tellurium-121m	52	10 (.37)
Tellurium-123	52	10 (.37)
Tellurium-123m	52	10 (.37)
Tellurium-125m	52	10 (.37)
Tellurium-127	52	1000 (37)
Tellurium-127m	52	10 (.37)
Tellurium-129	52	1000 (37)
Tellurium-129m	52	10 (.37)
Tellurium-131	52	1000 (37)
Tellurium-131m	52	10 (.37)
Tellurium-132	52	10 (.37)
Tellurium-133	52	1000 (37)
Tellurium-133m	52	1000 (37)
Tellurium-134	52	1000 (37)
Terbium-147	65	100 (3.7)
Terbium-149	65	100 (3.7)
Terbium-150	65	100 (3.7)
Terbium-151	65	10 (.37)
Terbium-153	65	100 (3.7)
Terbium-154	65	10 (.37)
Terbium-155	65	100 (3.7)
Terbium-156	65	10 (.37)
Terbium-156m (24.4 hr)	65	1000 (37)
Terbium-156m (5.0 hr)	65	1000 (37)
Terbium-157	65	100 (3.7)
Terbium-158	65	10 (.37)
Terbium-160	65	10 (.37)
Terbium-161	65	100 (3.7)
Thallium-194	81	1000 (37)
Thallium-194m	81	100 (3.7)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Thallium-195	81	100 (3.7)
Thallium-197	81	100 (3.7)
Thallium-198	81	10 (.37)
Thallium-198m	81	100 (3.7)
Thallium-199	81	100 (3.7)
Thallium-200	81	10 (.37)
Thallium-201	81	1000 (37)
Thallium-202	81	10 (.37)
Thallium-204	81	10 (.37)
Thorium (Irradiated)	90	***
Thorium (Natural)	90	**
Thorium-226	90	100 (3.7)
Thorium-227	90	1 (.037)
Thorium-228	90	0.01 (.00037)
Thorium-229	90	0.001 (.000037)
Thorium-230	90	0.01 (.00037)
Thorium-231	90	100 (3.7)
Thorium-232 **	90	0.001 (.000037)
Thorium-234	90	100 (3.7)
Thulium-162	69	1000 (37)
Thulium-166	69	10 (.37)
Thulium-167	69	100 (3.7)
Thulium-170	69	10 (.37)
Thulium-171	69	100 (3.7)
Thulium-172	69	100 (3.7)
Thulium-173	69	100 (3.7)
Thulium-175	69	1000 (37)
Tin-110	50	100 (3.7)
Tin-111	50	1000 (37)
Tin-113	50	10 (.37)
Tin-117m	50	100 (3.7)
Tin-119m	50	10 (.37)
Tin-121	50	1000 (37)
Tin-121m	50	10 (.37)
Tin-123	50	10 (.37)
Tin-123m	50	1000 (37)
Tin-125	50	10 (.37)
Tin-126	50	1 (.037)
Tin-127	50	100 (3.7)
Tin-128	50	1000 (37)
Titanium-44	22	1 (.037)
Titanium-45	22	1000 (37)
Tungsten-176	74	1000 (37)
Tungsten-177	74	100 (3.7)
Tungsten-178	74	100 (3.7)
Tungsten-179	74	1000 (37)
Tungsten-181	74	100 (3.7)
Tungsten-185	74	10 (.37)
Tungsten-187	74	100 (3.7)
Tungsten-188	74	10 (.37)
Uranium (Depleted)	92	***
Uranium (Irradiated)	92	***
Uranium (Natural)	92	**
Uranium Enriched 20% or greater	92	***
Uranium Enriched less than 20%	92	***
Uranium-230	92	1 (.037)
Uranium-231	92	1000 (37)
Uranium-232	92	0.01 (.00037)
Uranium-233	92	0.1 (.0037)
Uranium-234 **	92	0.1 (.0037)
Uranium-235 **	92	0.1 (.0037)
Uranium-236	92	0.1 (.0037)
Uranium-237	92	100 (3.7)
Uranium-238 **	92	0.1 (.0037)
Uranium-239	92	1000 (37)
Uranium-240	92	1000 (37)

TABLE 2 TO APPENDIX A—RADIONUCLIDES—Continued

(1)—Radionuclide	(2)—Atomic Number	(3)—Reportable Quantity (RQ) Ci (TBq)
Vanadium-47	23	1000 (37)
Vanadium-48	23	10 (.37)
Vanadium-49	23	1000 (37)
Xenon-120	54	100 (3.7)
Xenon-121	54	10 (.37)
Xenon-122	54	100 (3.7)
Xenon-123	54	10 (.37)
Xenon-125	54	100 (3.7)
Xenon-127	54	100 (3.7)
Xenon-129m	54	1000 (37)
Xenon-131m	54	1000 (37)
Xenon-133	54	1000 (37)
Xenon-133m	54	1000 (37)
Xenon-135	54	100 (3.7)
Xenon-135m	54	10 (.37)
Xenon-138	54	10 (.37)
Ytterbium-162	70	1000 (37)
Ytterbium-166	70	10 (.37)
Ytterbium-167	70	1000 (37)
Ytterbium-169	70	10 (.37)
Ytterbium-175	70	100 (3.7)
Ytterbium-177	70	1000 (37)
Ytterbium-178	70	1000 (37)
Yttrium-86	39	10 (.37)
Yttrium-86m	39	1000 (37)
Yttrium-87	39	10 (.37)
Yttrium-88	39	10 (.37)
Yttrium-90	39	10 (.37)
Yttrium-90m	39	100 (3.7)
Yttrium-91	39	10 (.37)
Yttrium-91m	39	1000 (37)
Yttrium-92	39	100 (3.7)
Yttrium-93	39	100 (3.7)
Yttrium-94	39	1000 (37)
Yttrium-95	39	1000 (37)
Zinc-62	30	100 (3.7)
Zinc-63	30	1000 (37)
Zinc-65	30	10 (.37)
Zinc-69	30	1000 (37)
Zinc-69m	30	100 (3.7)
Zinc-71m	30	100 (3.7)
Zinc-72	30	100 (3.7)
Zirconium-86	40	100 (3.7)
Zirconium-88	40	10 (.37)
Zirconium-89	40	100 (3.7)
Zirconium-93	40	1 (.037)
Zirconium-95	40	10 (.37)
Zirconium-97	40	10 (.37)

$The RQs for all radionuclides apply to chemical compounds containing the radionuclides and elemental forms regardless of the diameter of pieces of solid material.

†The RQ of one curie applies to all radionuclides not otherwise listed. Whenever the RQs in TABLE 1—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES and this table conflict, the lowest RQ shall apply. For example, uranyl acetate and uranyl nitrate have RQs shown in TABLE 1 of 100 pounds, equivalent to about one-tenth the RQ level for uranium-238 in this table.

**The method to determine the RQs for mixtures or solutions of radionuclides can be found in paragraph 7 of the note preceding TABLE 1 of this appendix. RQs for the following four common radionuclide mixtures are provided: radium-226 in secular equilibrium with its daughters (0.053 curie); natural uranium (0.1 curie); natural uranium in secular equilibrium with its daughters (0.052 curie); and natural thorium in secular equilibrium with its daughters (0.011 curie).

***Indicates that the name was added by PHMSA because it appears in the list of radionuclides in 49 CFR 173.435. The reportable quantity (RQ), if not specifically listed elsewhere in this appendix, shall be determined in accordance with the procedures in paragraph 7 of this appendix.

APPENDIX B TO § 172.101—LIST OF MARINE POLLUTANTS

1. See § 171.4 of this subchapter for applicability to marine pollutants. This appendix lists potential marine pollutants as defined in § 171.8 of this subchapter.

2. Marine pollutants listed in this appendix are not necessarily listed by name in the § 172.101 Table. If a marine pollutant not listed by name or by synonym in the § 172.101 Table meets the definition of any hazard Class 1 through 8, then you must determine the class and division of the material in accordance with § 173.2a of this subchapter. You must also select the most appropriate hazardous material description and proper shipping name. If a marine pollutant not listed by name or by synonym in the § 172.101 Table does not meet the definition of any Class 1 through 8, then you must offer it for transportation under the most appropriate of the following two Class 9 entries: ''Environmentally hazardous substances, liquid, n.o.s.,'' UN3082, or ''Environmentally hazardous substances, solid, n.o.s.'' UN3077.

3. This appendix contains two columns. The first column, entitled ''S.M.P.'' (for severe marine pollutants), identifies whether a material is a severe marine pollutant. If the letters ''PP'' appear in this column for a material, the material is a severe marine pollutant, otherwise it is not. The second column, entitled ''Marine Pollutant'' , lists the marine pollutants.

4. If a material is not listed in this appendix and meets the criteria for a marine pollutant as provided in Chapter 2.10 of the IMDG Code, ''Guidelines for the Identification of Harmful Substances in Packaged Form'' (incorporated by reference; see § 171.7 of this subchapter), the material may be transported as a marine pollutant in accordance with the applicable requirements of this subchapter.

5. If a material listed in this appendix does not meet the criteria for a marine pollutant as provided in Chapter 2.10 of the IMDG Code, ''Guidelines for the Identification of Harmful Substances in Packaged Form'' (incorporated by reference; see § 171.7 of this subchapter), it may be excepted from the requirements of this subchapter as a marine pollutant if that exception is approved by the Associate Administrator.

LIST OF MARINE POLLUTANTS

S.M.P. (1)	Marine pollutant (2)
	Acetone cyanohydrin, stabilized
	Acetylene tetrabromide
	Acetylene tetrachloride
	Acraldehyde, inhibited
	Acrolein, inhibited
	Acrolein, stabilized
	Acrylic aldehyde, inhibited
	Alcohol C-12 - C-16 poly(1-6) ethoxylate

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
	Alcohol C-6 - C-17 (secondary)poly(3-6) ethoxylate
	Aldicarb
PP	Aldrin
	Alkyl (c12-c14) dimethylamine
	Alkyl (c7-c9) nitrates
	Alkybenzenesulphonates, branched and straight chain (*excluding C11–C13 straight chain or branched chain homologues*)
	Allyl bromide
	ortho-Aminoanisole
	Aminocarb
	Ammonium dinitro-o-cresolate
	n-Amylbenzene
PP	Azinphos-ethyl
PP	Azinphos-methyl
	Barium cyanide
	Bendiocarb
	Benomyl
	Benquinox
	Benzyl chlorocarbonate
	Benzyl chloroformate
PP	Binapacryl
	N,N-Bis (2-hydroxyethyl) oleamide (LOA)
PP	Brodifacoum
	Bromine cyanide
	Bromoacetone
	Bromoallylene
	Bromobenzene
	ortho-Bromobenzyl cyanide
	Bromocyane
	Bromoform
PP	Bromophos-ethyl
	3-Bromopropene
	Bromoxynil
	Butanedione
	2-Butenal, stabilized
	Butyl benzyl phthalate
	N-tert-butyl-*N*-cyclopropyl-6-methylthio-1,3,5-triazine-2,4-diamine
	2,4-Di-tert-butylphenol
PP	2, 6-Di-tert-Butylphenol
	para-tertiary-butyltoluene
PP	Cadmium compounds
	Cadmium sulphide
	Calcium arsenate
	Calcium arsenate and calcium arsenite, mixtures, solid
	Calcium cyanide
PP	Camphechlor
	Carbaryl
	Carbendazim
	Carbofuran
	Carbon tetrabromide
	Carbon tetrachloride
PP	Carbophenothion
	Cartap hydrochloride
PP	Chlordane
	Chlorfenvinphos
PP	Chlorinated paraffins (C-10 - C-13)
PP	Chlorinated paraffins (C14–C17), with more than 1% shorter chain length
	Chlorine
	Chlorine cyanide, inhibited
	Chlormephos
	Chloroacetone, stabilized
	1-Chloro-2,3-Epoxypropane
	2-Chloro-6-nitrotoluene
	4-Chloro-2-nitrotoluene
	Chloro-ortho-nitrotoluene
	2-Chloro-5-trifluoromethylnitrobenzene
	para-Chlorobenzyl chloride, liquid or solid

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
	Chlorodinitrobenzenes, liquid or solid
	1-Chloroheptane
	1-Chlorohexane
	Chloronitroanilines
	Chloronitrotoluenes, *liquid*
	Chloronitrotoluenes, *solid*
	1-Chlorooctane
PP	Chlorophenolates, liquid
PP	Chlorophenolates, solid
	Chlorophenyltrichlorosilane
	Chloropicrin
	alpha-Chloropropylene
	Chlorotoluenes (meta-;para-)
PP	Chlorpyriphos
PP	Chlorthiophos
	Cocculus
	Coconitrile
	Copper acetoarsenite
	Copper arsenite
PP	Copper chloride
PP	Copper chloride solution
PP	Copper cyanide
PP	Copper metal powder
PP	Copper sulphate, anhydrous, hydrates
	Coumachlor
PP	Coumaphos
PP	Cresyl diphenyl phosphate
	Crotonaldehyde, stabilized
	Crotonic aldehyde, stabilized
	Crotoxyphos
	Cupric arsenite
PP	Cupric chloride
PP	Cupric cyanide
PP	Cupric sulfate
	Cupriethylenediamine solution
PP	Cuprous chloride
	Cyanide mixtures
	Cyanide solutions
	Cyanides, inorganic, n.o.s.
	Cyanogen bromide
	Cyanogen chloride, inhibited
	Cyanogen chloride, stabilized
	Cyanophos
PP	1,5,9-Cyclododecatriene
PP	Cyhexatin
PP	Cymenes (o-;m-;p-)
PP	Cypermethrin
	Decyl acrylate
PP	DDT
	Decycloxytetrahydrothiophene dioxide
	DEF
	Desmedipham
	Di-allate
	Di-n-Butyl phthalate
PP	Dialifos
	4,4′-Diaminodiphenylmethane
PP	Diazinon
	1,3-Dibromobenzene
PP	Dichlofenthion
	Dichloroanilines
	1,3-Dichlorobenzene
	1,4-Dichlorobenzene
	Dichlorobenzene (meta-; para-)
	2,2-Dichlorodiethyl ether
	Dichlorodimethyl ether, symmetrical
	Di-(2-chloroethyl) ether
	1,1-Dichloroethylene, inhibited
	1,6-Dichlorohexane
	Dichlorophenyltrichlorosilane
PP	Dichlorvos
PP	Diclofop-methyl

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
	Dicrotophos
PP	Dieldrin
	Diisopropylbenzenes
	Diisopropylnaphthalenes, mixed isomers
PP	Dimethoate
PP	N,N-Dimethyldodecylamine
	Dimethylhydrazine, symmetrical
	Dimethylhydrazine, unsymmetrical
	Dinitro-o-cresol, *solid*
	Dinitro-o-cresol, *solution*
	Dinitrochlorobenzenes, liquid or solid
	Dinitrophenol, *dry or wetted with less than 15 per cent water, by mass*
	Dinitrophenol solutions
	Dinitrophenol, wetted *with not less than 15 per cent water, by mass*
	Dinitrophenolates *alkali metals, dry or wetted with less than 15 per cent water, by mass*
	Dinitrophenolates, wetted *with not less than 15 per cent water, by mass*
	Dinobuton
	Dinoseb
	Dinoseb acetate
	Dioxacarb
	Dioxathion
	Dipentene
	Diphacinone
	Diphenyl
PP	Diphenylamine chloroarsine
PP	Diphenylchloroarsine, solid *or* liquid
	Disulfoton
	1,4-Di-tert-butylbenzene
	DNOC
	DNOC (pesticide)
	Dodecyl diphenyl oxide disulphonate
PP	Dodecyl hydroxypropyl sulfide
	1-Dodecylamine
PP	Dodecylphenol
	Drazoxolon
	Edifenphos
PP	Endosulfan
PP	Endrin
	Epibromohydrin
	Epichlorohydrin
PP	EPN
PP	Esfenvalerate
PP	Ethion
	Ethoprophos
	Ethyl fluid
	Ethyl mercaptan
	2-Ethylhexyl nitrate
	5-Ethyl-2-picoline
	Ethyl propenoate, inhibited
	2-Ethyl-3-propylacrolein
	Ethyl tetraphosphate
	Ethyldichloroarsine
	Ethylene dibromide and methyl bromide mixtures, liquid
	2-Ethylhexaldehyde
	Fenamiphos
PP	Fenbutatin oxide
PP	Fenchlorazole-ethyl
PP	Fenitrothion
PP	Fenoxapro-ethyl
PP	Fenoxaprop-P-ethyl
PP	Fenpropathrin
	Fensulfothion
PP	Fenthion
PP	Fentin acetate
PP	Fentin hydroxide
	Ferric arsenate

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
	Ferric arsenite
	Ferrous arsenate
PP	Fonofos
	Formetanate
PP	Furathiocarb (ISO)
PP	gamma-BHC
	Gasoline, leaded
PP	Heptachlor
	Heptenophos
	n-Heptaldehyde
	n-Heptylbenzene
	normal-Heptyl chloride
PP	Hexachlorobutadiene
PP	1,3-Hexachlorobutadiene
	Hexaethyl tetraphosphate *liquid*
	Hexaethyl tetraphosphate, *solid*
	normal-Hexyl chloride
	n-Hexylbenzene
	Hydrocyanic acid, anhydrous, stabilized, containing less than 3% water
	Hydrocyanic acid, anhydrous, stabilized, containing less than 3% water and absorbed in a porous inert material
	Hydrocyanic acid, aqueous solutions *not more than 20% hydrocyanic acid*
	Hydrogen cyanide solution in alcohol, *with not more than* 45% hydrogen cyanide
	Hydrogen cyanide, stabilized *with less than 3% water*
	Hydrogen cyanide, stabilized *with less than 3% water and absorbed in a porous inert material*
	Hydroxydimethylbenzenes, liquid or solid
	Ioxynil
	Isobenzan
	Isobutyl butyrate
	Isobutylbenzene
	Isodecyl acrylate
	Isodecyl diphenyl phosphate
	Isofenphos
	Isooctyl nitrate
	Isoprocarb
	Isopropenylbenzene
	Isotetramethylbenzene
PP	Isoxathion
	Lead acetate
	Lead arsenates
	Lead arsenites
	Lead compounds, soluble, n.o.s.
	Lead cyanide
	Lead nitrate
	Lead perchlorate, solid or solution
	Lead tetraethyl
	Lead tetramethyl
PP	Lindane
	Linuron
	London Purple
	Magnesium arsenate
	Malathion
	Mancozeb (ISO)
	Maneb
	Maneb preparations *with not less than 60% maneb*
	Maneb preparation, stabilized against self-heating
	Maneb stabilized *or* Maneb preparations, stabilized *against self-heating*
	Manganese ethylene-1,2-bis dithiocarbamate
	Manganese ethylene-1,2-bis-dithiocarbamate, stabilized against self-heating
	Mecarbam
	Mephosfolan
	Mercaptodimethur
PP	Mercuric acetate

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
PP	Mercuric ammonium chloride
PP	Mercuric arsenate
PP	Mercuric benzoate
PP	Mercuric bisulphate
PP	Mercuric bromide
PP	Mercuric chloride
PP	Mercuric cyanide
PP	Mercuric gluconate
	Mercuric iodide
PP	Mercuric nitrate
PP	Mercuric oleate
PP	Mercuric oxide
PP	Mercuric oxycyanide, desensitized
PP	Mercuric potassium cyanide
PP	Mercuric Sulphate
PP	Mercuric thiocyanate
PP	Mercurol
PP	Mercurous acetate
PP	Mercurous bisulphate
PP	Mercurous bromide
PP	Mercurous chloride
PP	Mercurous nitrate
PP	Mercurous salicylate
PP	Mercurous sulphate
PP	Mercury acetates
PP	Mercury ammonium chloride
PP	Mercury based pesticide, liquid, flammable, toxic
PP	Mercury based pesticides, liquid, toxic, flammable
PP	Mercury based pesticides, liquid, toxic
PP	Mercury based pesticides, solid, toxic
PP	Mercury benzoate
PP	Mercury bichloride
PP	Mercury bisulphates
PP	Mercury bromides
PP	Mercury compounds, liquid, n.o.s.
PP	Mercury compounds, solid, n.o.s.
PP	Mercury cyanide
PP	Mercury gluconate
PP	Mercury (I) (mercurous) compounds (pesticides)
PP	Mercury (II) (mercuric) compounds (pesticides)
	Mercury iodide
PP	Mercury nucleate
PP	Mercury oleate
PP	Mercury oxide
PP	Mercury oxycyanide, desensitized
PP	Mercury potassium cyanide
PP	Mercury potassium iodide
PP	Mercury salicylate
PP	Mercury sulfates
PP	Mercury thiocyanate
	Metam-sodium
	Methamidophos
	Methanethiol
	Methidathion
	Methomyl
	ortho-Methoxyaniline
	Methyl bromide and ethylene dibromide mixtures, liquid
	Methyl mercaptan
	3-Methylacroleine, stabilized
	Methylchlorobenzenes
	Methylnitrophenols
	3-Methylpyradine
	Methyltrithion
	Methylvinylbenzenes, inhibited
PP	Mevinphos
	Mexacarbate
	Mirex
	Monocrotophos
	Motor fuel anti-knock mixtures
	Motor fuel anti-knock mixtures or compounds

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
	Nabam
	Naled
PP	Nickel carbonyl
PP	Nickel cyanide
PP	Nickel tetracarbonyl
	3-Nitro-4-chlorobenzotrifluoride
	Nitrobenzene
	Nitrobenzotrifluorides, liquid or solid
	Nonylphenol
	normal-Octaldehyde
	Oleylamine
PP	Organotin compounds, liquid, n.o.s.
PP	Organotin compounds (pesticides)
PP	Organotin compounds, solid, n.o.s.
PP	Organotin pesticides, liquid, flammable, toxic, n.o.s., *flash point less than 23deg C*
PP	Organotin pesticides, liquid, toxic, flammable, n.o.s.
PP	Organotin pesticides, liquid, toxic, n.o.s.
PP	Organotin pesticides, solid, toxic, n.o.s.
	Orthoarsenic acid
PP	Osmium tetroxide
	Oxamyl
	Oxydisulfoton
	Paraoxon
PP	Parathion
PP	Parathion-methyl
PP	PCBs.
	Pentachloroethane
PP	Pentachlorophenol
	Pentalin
	n-Pentylbenzene
	Perchloroethylene
	Perchloromethylmercaptan
	Petrol, leaded
PP	Phenarsazine chloride
	d-Phenothrin
PP	Phenthoate
	1-Phenylbutane
	2-Phenylbutane
	Phenylcyclohexane
PP	Phenylmercuric acetate
PP	Phenylmercuric compounds, n.o.s.
PP	Phenylmercuric hydroxide
PP	Phenylmercuric nitrate
	2-Phenylpropene
PP	Phorate
PP	Phosalone
	Phosmet
PP	Phosphamidon
PP	Phosphorus, white, molten
PP	Phosphorus, white *or* yellow dry *or* under water *or* in solution
PP	Phosphorus white, or yellow, molten
PP	Phosphorus, yellow, molten
	Pindone (and salts of)
	Pirimicarb
PP	Pirimiphos-ethyl
PP	Polychlorinated biphenyls
PP	Polyhalogenated biphenyls, liquid *or* Terphenyls liquid
PP	Polyhalogenated biphenyls, solid *or* Terphenyls, solid
PP	Potassium cuprocyanide
	Potassium cyanide, solid
	Potassium cyanide, solution
PP	Potassium cyanocuprate (I)
PP	Potassium cyanomercurate
PP	Potassium mercuric iodide
	Promecarb
	Propachlor
	Propaphos

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
	Propenal, inhibited
	Propoxur
	Prothoate
	Prussic acid, anhydrous, stabilized
	Prussic acid, anhydrous, stabilized, absorbed in a porous inert material
PP	Pyrazophos
	Quinalphos
PP	Quizalofop
PP	Quizalofop-p-ethyl
	Rotenone
	Salithion
PP	Silafluofen
	Silver arsenite
	Silver cyanide
	Silver orthoarsenite
PP	Sodium copper cyanide, solid
PP	Sodium copper cyanide solution
PP	Sodium cuprocyanide, solid
PP	Sodium cuprocyanide, solution
	Sodium cyanide, solid
	Sodium cyanide, solution
	Sodium dinitro-o-cresolate, *dry or wetted with less than 15 per cent water, by mass*
	Sodium dinitro-ortho-cresolate, wetted *with not less than 15 per cent water, by mass*
PP	Sodium pentachlorophenate
	Strychnine *or* Strychnine salts
	Sulfotep
PP	Sulprophos
	Tallow nitrile
	Temephos
	TEPP
PP	Terbufos
	Tetrabromoethane
	Tetrabromomethane
	1,1,2,2-Tetrachloroethane
	Tetrachloroethylene
	Tetrachloromethane
	Tetraethyl dithiopyrophosphate
PP	Tetraethyl lead, liquid
	Tetramethrin
	Tetramethyllead
	Thallium chlorate
	Thallium compounds, n.o.s.
	Thallium compounds (pesticides)
	Thallium nitrate
	Thallium sulfate
	Thallous chlorate
	Thiocarbonyl tetrachloride
	Triaryl phosphates, isopropylated
PP	Triaryl phosphates, n.o.s.
	Triazophos
	Tribromomethane
PP	Tributyltin compounds
	Trichlorfon
PP	1,2,3—Trichlorobenzene
	Trichlorobenzenes, liquid
	Trichlorobutene
	Trichlorobutylene
	Trichloromethane sulphuryl chloride
	Trichloromethyl sulphochloride
	Trichloronat
	Tricresyl phosphate (less than 1% ortho-isomer)
PP	Tricresyl phosphate, not less than 1% ortho-isomer but not more than 3% orthoisomer
PP	Tricresyl phosphate *with more than 3 per cent ortho isomer*
	Triethylbenzene
	Triisopropylated phenyl phosphates
	Trimethylene dichloride

LIST OF MARINE POLLUTANTS—Continued

S.M.P. (1)	Marine pollutant (2)
PP	Triphenylphosphate
	Triphenyl phosphate/tert-butylated triphenyl phosphates mixtures containing 5% to 10% triphenyl phosphates
PP	Triphenyl phosphate/tert-butylated triphenyl phosphates mixtures containing 10% to 48% triphenyl phosphates
PP	Triphenyltin compounds
	Tritolyl phosphate (less than 1% ortho-isomer)
PP	Tritolyl phosphate (not less than 1% ortho-isomer)
	Trixylenyl phosphate
	Vinylidene chloride, stabilized
	Warfarin (and salts of)
PP	White phosphorus, dry
PP	White phosphorus, wet
	White spirit, low (15-20%) aromatic
PP	Yellow phosphorus, dry
PP	Yellow phosphorus, wet
	Zinc bromide
	Zinc cyanide

[Amdt. 172–173, 55 FR 52474, Dec. 21, 1990]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 172.101, see the List of CFR Sections Affected which appears in the Finding Aids section of the printed volume and on GPO Access.

EDITORIAL NOTE: At 70 FR 34388, June 14, 2005, § 172.101 was amended; however, two amendments could not be incorporated due to inaccurate amendatory instruction.

EFFECTIVE DATE NOTES: 1. At 72 FR 4455, Jan. 31, 2007, § 172.101 was amended in the Hazardous Materials Table the shipping name ''Oxygen, compressed,'' in column (7), Special Provision ''A52'' is removed, for the shipping name ''Air, refrigerated liquid, (cryogenic liquid),'' Column (9B) is revised to read ''Forbidden.'' and the shipping name ''Oxygen generator, chemical,'' in Column (7), Special Provisions ''60, A51'' are removed and Column (8B) is revised to read ''168.'', effective Oct. 1, 2007. 2. At 72 FR 55092, Sept. 28, 2007, effectiveness of the amendment at 72 FR 4455, Jan. 31, 2007 was delayed until Oct. 1, 2008.

§ 172.102 Special provisions.

(a) *General.* When column 7 of the § 172.101 table refers to a special provision for a hazardous material, the meaning and requirements of that provision are as set forth in this section. When a special provision specifies packaging or packaging requirements—

(1) The special provision is in addition to the standard requirements for all packagings prescribed in § 173.24 of this subchapter and any other applicable packaging requirements in subparts

A and B of part 173 of this subchapter; and

(2) To the extent a special provision imposes limitations or additional requirements on the packaging provisions set forth in column 8 of the §172.101 table, packagings must conform to the requirements of the special provision.

(b) *Description of codes for special provisions.* Special provisions contain packaging provisions, prohibitions, exceptions from requirements for particular quantities or forms of materials and requirements or prohibitions applicable to specific modes of transportation, as follows:

(1) A code consisting only of numbers (for example, ''11'') is multi-modal in application and may apply to bulk and non-bulk packagings.

(2) A code containing the letter ''A'' refers to a special provision which applies only to transportation by aircraft.

(3) A code containing the letter ''B'' refers to a special provision that applies only to bulk packaging requirements. Unless otherwise provided in this subchapter, these special provisions do not apply to UN, IM Specification portable tanks or IBCs.

(4) A code containing the letters ''IB'' or ''IP'' refers to a special provision that applies only to transportation in IBCs.

(5) A code containing the letter ''N'' refers to a special provision which applies only to non-bulk packaging requirements.

(6) A code containing the letter ''R'' refers to a special provision which applies only to transportation by rail.

(7) A code containing the letter ''T'' refers to a special provision which applies only to transportation in UN or IM Specification portable tanks.

(8) A code containing the letters ''TP'' refers to a portable tank special provision for UN or IM Specification portable tanks that is in addition to those provided by the portable tank instructions or the requirements in part 178 of this subchapter.

(9) A code containing the letter ''W'' refers to a special provision that applies only to transportation by water.

(c) *Tables of special provisions.* The following tables list, and set forth the requirements of, the special provisions referred to in column 7 of the §172.101 table.

(1) *Numeric provisions.* These provisions are multi-modal and apply to bulk and non-bulk packagings:

Code/Special Provisions

1 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone A (see §173.116(a) or §173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

2 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone B (see §173.116(a) or §173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

3 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone C (see §173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

4 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone D (see §173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

5 If this material meets the definition for a material poisonous by inhalation (see §171.8 of this subchapter), a shipping name must be selected which identifies the inhalation hazard, in Division 2.3 or Division 6.1, as appropriate.

6 This material is poisonous-by-inhalation and must be described as an inhalation hazard under the provisions of this subchapter.

8 A hazardous substance that is not a hazardous waste may be shipped under the shipping description ''Other regulated substances, liquid *or* solid, n.o.s.'', as appropriate. In addition, for solid materials, special provision B54 applies.

9 Packaging for certain PCBs for disposal and storage is prescribed by EPA in 40 CFR 761.60 and 761.65.

11 The hazardous material must be packaged as either a liquid or a solid, as appropriate, depending on its physical form at 55 °C (131 °F) at atmospheric pressure.

12 In concentrations greater than 40 percent, this material has strong oxidizing properties and is capable of starting fires in contact with combustible materials. If appropriate, a package containing this material must conform to the additional labeling requirements of §172.402 of this subchapter.

13 The words ''Inhalation Hazard'' shall be entered on each shipping paper in association with the shipping description, shall be

marked on each non-bulk package in association with the proper shipping name and identification number, and shall be marked on two opposing sides of each bulk package. Size of marking on bulk package must conform to § 172.302(b) of this subchapter. The requirements of §§ 172.203(m) and 172.505 of this subchapter do not apply.

14 Motor fuel antiknock mixtures are:

a. Mixtures of one or more organic lead mixtures (such as tetraethyl lead, triethylmethyl lead, diethyldimethyl lead, ethyltrimethyl lead, and tetramethyl lead) with one or more halogen compounds (such as ethylene dibromide and ethylene dichloride), hydrocarbon solvents or other equally efficient stabilizers; or

b. tetraethyl lead.

15 This entry applies to ''Chemical kits'' and ''First aid kits'' containing one or more compatible items of hazardous materials in boxes, cases, etc. that, for example, are used for medical, analytical, diagnostic, testing, or repair purposes. For transportation by aircraft, materials forbidden for transportation by passenger aircraft or cargo aircraft may not be included in the kits. Chemical kits and first aid kits are excepted from the specification packaging requirements of this subchapter when packaged in combination packagings. Chemical kits and first aid kits are also excepted from the labeling and placarding requirements of this subchapter, except when offered for transportation or transported by air. Chemical and first aid kits may be transported in accordance with the consumer commodity and ORM exceptions in § 173.156, provided they meet all required conditions. Kits that are carried on board transport vehicles for first aid or operating purposes are not subject to the requirements of this subchapter.

16 This description applies to smokeless powder and other solid propellants that are used as powder for small arms and have been classed as Division 1.3 and 4.1 in accordance with § 173.56 of this subchapter.

18 This description is authorized only for fire extinguishers listed in § 173.309(b) of this subchapter meeting the following conditions:

a. Each fire extinguisher may only have extinguishing contents that are nonflammable, non-poisonous, non-corrosive and commercially free from corroding components.

b. Each fire extinguisher must be charged with a nonflammable, non-poisonous, dry gas that has a dew-point at or below minus 46.7 °C (minus 52 °F) at 101 kPa (1 atmosphere) and is free of corroding components, to not more than the service pressure of the cylinder.

c. A fire extinguisher may not contain more than 30% carbon dioxide by volume or any other corrosive extinguishing agent.

d. Each fire extinguisher must be protected externally by suitable corrosion-resisting coating.

19 For domestic transportation only, the identification number ''UN1075'' may be used in place of the identification number specified in column (4) of the § 172.101 table. The identification number used must be consistent on package markings, shipping papers and emergency response information.

21 This material must be stabilized by appropriate means (e.g., addition of chemical inhibitor, purging to remove oxygen) to prevent dangerous polymerization (see § 173.21(f) of this subchapter).

22 If the hazardous material is in dispersion in organic liquid, the organic liquid must have a flash point above 50 °C (122 °F).

23 This material may be transported under the provisions of Division 4.1 only if it is so packed that the percentage of diluent will not fall below that stated in the shipping description at any time during transport. Quantities of not more than 500 g per package with not less than 10 percent water by mass may also be classed in Division 4.1, provided a negative test result is obtained when tested in accordance with test series 6(c) of the UN Manual of Tests and Criteria (IBR, see § 171.7 of this subchapter).

24 Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.

26 This entry does not include ammonium permanganate, the transport of which is prohibited except when approved by the Associate Administrator.

28 The dihydrated sodium salt of dichloroisocyanuric acid is not subject to the requirements of this subchapter.

29 Lithium cells and batteries and equipment containing or packed with lithium cells and batteries which do not comply with the provisions of § 173.185 of this subchapter may be transported only if they are approved by the Associate Administrator.

30 Sulfur is not subject to the requirements of this subchapter if transported in a non-bulk packaging or if formed to a specific shape (for example, prills, granules, pellets, pastilles, or flakes). A bulk packaging containing sulfur is not subject to the placarding requirements of subpart F of this part, if it is marked with the appropriate identification number as required by subpart D of this part. Molten sulfur must be marked as required by § 172.325 of this subchapter.

31 Materials which have undergone sufficient heat treatment to render them nonhazardous are not subject to the requirements of this subchapter.

32 Polymeric beads and molding compounds may be made from polystyrene, poly(methyl methacrylate) or other polymeric material.

33 Ammonium nitrites and mixtures of an inorganic nitrite with an ammonium salt are prohibited.

34 The commercial grade of calcium nitrate fertilizer, when consisting mainly of a double salt (calcium nitrate and ammonium nitrate) containing not more than 10 percent ammonium nitrate and at least 12 percent water of crystallization, is not subject to the requirements of this subchapter.

35 Antimony sulphides and oxides which do not contain more than 0.5 percent of arsenic calculated on the total mass do not meet the definition of Division 6.1.

36 The maximum net quantity per package is 5 L (1 gallon) or 5 kg (11 pounds).

37 Unless it can be demonstrated by testing that the sensitivity of the substance in its frozen state is no greater than in its liquid state, the substance must remain liquid during normal transport conditions. It must not freeze at temperatures above −15 °C (5 °F).

38 If this material shows a violent effect in laboratory tests involving heating under confinement, the labeling requirements of Special Provision 53 apply, and the material must be packaged in accordance with packing method OP6 in § 173.225 of this subchapter. If the SADT of the technically pure substance is higher than 75 °C, the technically pure substance and formulations derived from it are not self-reactive materials and, if not meeting any other hazard class, are not subject to the requirements of this subchapter.

39 This substance may be carried under provisions other than those of Class 1 only if it is so packed that the percentage of water will not fall below that stated at any time during transport. When phlegmatized with water and inorganic inert material, the content of urea nitrate must not exceed 75 percent by mass and the mixture should not be capable of being detonated by test 1(a)(i) or test 1(a)(ii) in the UN Manual of Tests and Criteria (IBR, see § 171.7 of this subchapter).

40 Polyester resin kits consist of two components: a base material (Class 3, Packing Group II or III) and an activator (organic peroxide), each separately packed in an inner packaging. The organic peroxide must be type D, E, or F, not requiring temperature control, and be limited to a quantity of 125 mL (4.22 ounces) per inner packaging if liquid, and 500 g (1 pound) if solid. The components may be placed in the same outer packaging provided they will not interact dangerously in the event of leakage. Packing group will be II or III, according to the criteria for Class 3, applied to the base material.

43 The membrane filters, including paper separators and coating or backing materials, that are present in transport, must not be able to propagate a detonation as tested by one of the tests described in the UN Manual of Tests and Criteria, Part I, Test series 1(a) (IBR, see § 171.7 of this subchapter). On the basis of the results of suitable burning rate tests, and taking into account the standard tests in the UN Manual of Tests and Criteria, Part III, subsection 33.2.1 (IBR, see § 171.7 of this subchapter), nitrocellulose membrane filters in the form in which they are to be transported that do not meet the criteria for a Division 4.1 material are not subject to the requirements of this subchapter. Packagings must be so constructed that explosion is not possible by reason of increased internal pressure. Nitrocellulose membrane filters covered by this entry, each with a mass not exceeding 0.5 g, are not subject to the requirements of this subchapter when contained individually in an article or a sealed packet.

44 The formulation must be prepared so that it remains homogenous and does not separate during transport. Formulations with low nitrocellulose contents and neither showing dangerous properties when tested for their ability to detonate, deflagrate or explode when heated under defined confinement by the appropriate test methods and criteria in the UN Manual of Tests and Criteria (IBR, see § 171.7 of this subchapter), nor classed as a Division 4.1 (flammable solid) when tested in accordance with the procedures specified in § 173.124 of this subchapter (chips, if necessary, crushed and sieved to a particle size of less than 1.25 mm), are not subject to the requirements of this subchapter.

45 Temperature should be maintained between 18 °C (64.4 °F) and 40 °C (104 °F). Tanks containing solidified methacrylic acid must not be reheated during transport.

46 This material must be packed in accordance with packing method OP6 (see § 173.225 of this subchapter). During transport, it must be protected from direct sunshine and stored (or kept) in a cool and well-ventilated place, away from all sources of heat.

47 Mixtures of solids that are not subject to this subchapter and flammable liquids may be transported under this entry without first applying the classification criteria of Division 4.1, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Except when the liquids are fully absorbed in solid material contained

in sealed bags, each packaging must correspond to a design type that has passed a leakproofness test at the Packing Group II level. Small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group II or III absorbed onto a solid material are not subject to this subchapter provided there is no free liquid in the packet or article.

48 Mixtures of solids which are not subject to this subchapter and toxic liquids may be transported under this entry without first applying the classification criteria of Division 6.1, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each packaging must correspond to a design type that has passed a leakproofness test at the Packing Group II level. This entry may not be used for solids containing a Packing Group I liquid.

49 Mixtures of solids which are not subject to this subchapter and corrosive liquids may be transported under this entry without first applying the classification criteria of Class 8, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each packaging must correspond to a design type that has passed a leakproofness test at the Packing Group II level.

50 Cases, cartridge, empty with primer which are made of metallic or plastic casings and meeting the classification criteria of Division 1.4 are not regulated for domestic transportation.

51 This description applies to items previously described as ''Toy propellant devices, Class C'' and includes reloadable kits. Model rocket motors containing 30 grams or less propellant are classed as Division 1.4S and items containing more than 30 grams of propellant but not more than 62.5 grams of propellant are classed as Division 1.4C.

52 This entry may only be used for substances that do not exhibit explosive properties of Class 1 (explosive) when tested in accordance with Test Series 1 and 2 of Class 1 (explosive) in the UN Manual of Tests and Criteria, Part I (incorporated by reference; see § 171.7 of this subchapter).

53 Packages of these materials must bear the subsidiary risk label, ''EXPLOSIVE'', and the subsidiary hazard class/division must be entered in parentheses immediately following the primary hazard class in the shipping description, unless otherwise provided in this subchapter or through an approval issued by the Associate Administrator, or the competent authority of the country of origin. A copy of the approval shall accompany the shipping papers.

54 Maneb or maneb preparations not meeting the definition of Division 4.3 or any other hazard class are not subject to the requirements of this subchapter when transported by motor vehicle, rail car, or aircraft.

55 This device must be approved in accordance with § 173.56 of this subchapter by the Associate Administrator.

56 A means to interrupt and prevent detonation of the detonator from initiating the detonating cord must be installed between each electric detonator and the detonating cord ends of the jet perforating guns before the charged jet perforating guns are offered for transportation.

57 Maneb *or* Maneb preparations stabilized against self-heating need not be classified in Division 4.2 when it can be demonstrated by testing that a volume of 1 m^3 of substance does not self-ignite and that the temperature at the center of the sample does not exceed 200 °C, when the sample is maintained at a temperature of not less than 75 °C ±2 °C for a period of 24 hours, in accordance with procedures set forth for testing self-heating materials in the UN Manual of Tests and Criteria (IBR, see § 171.7 of this subchapter).

58 Aqueous solutions of Division 5.1 inorganic solid nitrate substances are considered as not meeting the criteria of Division 5.1 if the concentration of the substances in solution at the minimum temperature encountered in transport is not greater than 80% of the saturation limit.

59 Ferrocerium, stabilized against corrosion, with a minimum iron content of 10 percent is not subject to the requirements of this subchapter.

60 After September 30, 1997, an oxygen generator, chemical, that is shipped with its means of initiation attached must incorporate at least two positive means of preventing unintentional actuation of the generator, and be classed and approved by the Associate Administrator. The procedures for approval of a chemical oxygen generator that contains an explosive means of initiation (e.g., a primer or electric match) are specified in § 173.56 of this subchapter. Each person who offers a chemical oxygen generator for transportation after September 30, 1997, shall: (1) ensure that it is offered in conformance with the conditions of the approval; (2) maintain a copy of the approval at each facility where the chemical oxygen generator is packaged; and (3) mark the approval number on the outside of the package.

61 A chemical oxygen generator is spent if its means of ignition and all or a part of its chemical contents have been expended.

64 The group of alkali metals includes lithium, sodium, potassium, rubidium, and caesium.

65 The group of alkaline earth metals includes magnesium, calcium, strontium, and barium.

66 Formulations of these substances containing not less than 30 percent non-volatile, non-flammable phlegmatizer are not subject to this subchapter.

70 Black powder that has been classed in accordance with the requirements of §173.56 of this subchapter may be reclassed and offered for domestic transportation as a Division 4.1 material if it is offered for transportation and transported in accordance with the limitations and packaging requirements of §173.170 of this subchapter.

74 During transport, this material must be protected from direct sunshine and stored or kept in a cool and well-ventilated place, away from all sources of heat.

77 Mixtures containing not more than 23.5% oxygen by volume may be transported under this entry when no other oxidizing gases are present. A Division 5.1 subsidiary risk label is not required if this special provision applies.

78 This entry may not be used to describe compressed air which contains more than 23.5 percent oxygen. An oxidizer label is not required for any oxygen concentration of 23.5 percent or less.

79 This entry may not be used for mixtures that meet the definition for oxidizing gas.

81 Polychlorinated biphenyl items, as defined in 40 CFR 761.3, for which specification packagings are impractical, may be packaged in non-specification packagings meeting the general packaging requirements of subparts A and B of part 173 of this subchapter. Alternatively, the item itself may be used as a packaging if it meets the general packaging requirements of subparts A and B of part 173 of this subchapter.

102 The ends of the detonating cord must be tied fast so that the explosive cannot escape. The articles may be transported as in Division 1.4 Compatibility Group D (1.4D) if all of the conditions specified in §173.63(a) of this subchapter are met.

103 Detonators which will not mass detonate and undergo only limited propagation in the shipping package may be assigned to 1.4B classification code. Mass detonate means that more than 90 percent of the devices tested in a package explode practically simultaneously. Limited propagation means that if one detonator near the center of a shipping package is exploded, the aggregate weight of explosives, excluding ignition and delay charges, in this and all additional detonators in the outside packaging that explode may not exceed 25 grams.

105 The word ''Agents'' may be used instead of ''Explosives'' when approved by the Associate Administrator.

106 The recognized name of the particular explosive may be specified in addition to the type.

107 The classification of the substance is expected to vary especially with the particle size and packaging but the border lines have not been experimentally determined; appropriate classifications should be verified following the test procedures in §§173.57 and 173.58 of this subchapter.

108 Fireworks must be so constructed and packaged that loose pyrotechnic composition will not be present in packages during transportation.

109 Rocket motors must be nonpropulsive in transportation unless approved in accordance with §173.56 of this subchapter. A rocket motor to be considered ''nonpropulsive'' must be capable of unrestrained burning and must not appreciably move in any direction when ignited by any means.

110 Fire extinguishers transported under UN1044 may include installed actuating cartridges (cartridges, power device of Division 1.4C or 1.4S), without changing the classification of Division 2.2, provided the aggregate quantity of deflagrating (propellant) explosives does not exceed 3.2 grams per extinguishing unit.

111 Explosive substances of Division 1.1 Compatibility Group A (1.1A) are forbidden for transportation if dry or not desensitized, unless incorporated in a device.

113 The sample must be given a tentative approval by an agency or laboratory in accordance with §173.56 of this subchapter.

114 Jet perforating guns, charged, oil well, without detonator may be reclassed to Division 1.4 Compatibility Group D (1.4D) if the following conditions are met:

a. The total weight of the explosive contents of the shaped charges assembled in the guns does not exceed 90.5 kg (200 pounds) per vehicle; and

b. The guns are packaged in accordance with Packing Method US 1 as specified in §173.62 of this subchapter.

115 Boosters with detonator, detonator assemblies and boosters with detonators in which the total explosive charge per unit does not exceed 25 g, and which will not mass detonate and undergo only limited propagation in the shipping package may be assigned to 1.4B classification code. Mass detonate means more than 90 percent of the devices tested in a package explode practically simultaneously. Limited propagation means that if one booster near the center of the package is exploded, the aggregate weight of explosives, excluding ignition and delay charges, in this and all additional boosters in the outside packaging that explode may not exceed 25 g.

116 Fuzes, detonating may be classed in Division 1.4 if the fuzes do not contain more than 25 g of explosive per fuze and are made and packaged so that they will not

cause functioning of other fuzes, explosives or other explosive devices if one of the fuzes detonates in a shipping packaging or in adjacent packages.

117 If shipment of the explosive substance is to take place at a time that freezing weather is anticipated, the water contained in the explosive substance must be mixed with denatured alcohol so that freezing will not occur.

118 This substance may not be transported under the provisions of Division 4.1 unless specifically authorized by the Associate Administrator.

119 This substance, when in quantities of not more than 11.5 kg (25.3 pounds), with not less than 10 percent water, by mass, also may be classed as Division 4.1, provided a negative test result is obtained when tested in accordance with test series 6(c) of the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter).

120 The phlegmatized substance must be significantly less sensitive than dry PETN.

121 This substance, when containing less alcohol, water or phlegmatizer than specified, may not be transported unless approved by the Associate Administrator.

123 Any explosives, blasting, type C containing chlorates must be segregated from explosives containing ammonium nitrate or other ammonium salts.

125 Lactose or glucose or similar materials may be used as a phlegmatizer provided that the substance contains not less than 90%, by mass, of phlegmatizer. These mixtures may be classified in Division 4.1 when tested in accordance with test series 6(c) of the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter) and approved by the Associate Administrator. Testing must be conducted on at least three packages as prepared for transport. Mixtures containing at least 98%, by mass, of phlegmatizer are not subject to the requirements of this subchapter. Packages containing mixtures with not less than 90% by mass, of phlegmatizer need not bear a POISON subsidiary risk label.

127 Mixtures containing oxidizing and organic materials transported under this entry may not meet the definition and criteria of a Class 1 material. (See §173.50 of this subchapter.)

128 Regardless of the provisions of §172.101(c)(12), aluminum smelting by-products and aluminum remelting by-products described under this entry, meeting the definition of Class 8, Packing Group II and III may be classed as a Division 4.3 material and transported under this entry. The presence of a Class 8 hazard must be communicated as required by this Part for subsidiary hazards.

129 These materials may not be classified and transported unless authorized by the Associate Administrator on the basis of results from Series 2 Test and a Series 6(c) Test from the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter) on packages as prepared for transport. The packing group assignment and packaging must be approved by the Associate Administrator for Hazardous Materials Safety on the basis of the criteria in §173.21 of this subchapter and the package type used for the Series 6(c) test.

130 For other than a dry battery specifically covered by another entry in the §172.101 Table, ''Batteries, dry'' are not subject to the requirements of this subchapter when they are securely packaged and offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals) and protects against short circuits.

131 This material may not be offered for transportation unless approved by the Associate Administrator.

132 This entry may only be used for uniform, ammonium nitrate based fertilizer mixtures, containing nitrogen, phosphate or potash, meeting the following criteria: (1) Contains not more than 70% ammonium nitrate and not more than 0.4% total combustible, organic material calculated as carbon or (2) Contains not more than 45% ammonium nitrate and unrestricted combustible material.

134 This entry only applies to vehicles, machinery and equipment powered by wet batteries, sodium batteries, or lithium batteries that are transported with these batteries installed. Examples of such items are electrically-powered cars, lawn mowers, wheelchairs, and other mobility aids. Self-propelled vehicles that also contain an internal combustion engine must be consigned under the entry ''Vehicle, flammable gas powered'' or ''Vehicle, flammable liquid powered'', as appropriate. Except as provided in Special Provision A102, vehicles, machinery and equipment powered by primary lithium batteries that are transported with these batteries installed are forbidden aboard passenger-carrying aircraft.

135 The entries ''Vehicle, flammable gas powered'' or ''Vehicle, flammable liquid powered,'' as appropriate, must be used when internal combustion engines are installed in a vehicle. These entries include hybrid electric vehicles powered by both an internal combustion engine and batteries.

136 This entry only applies to machinery and apparatus containing hazardous materials as in integral element of the machinery or apparatus. It may not be used to describe machinery or apparatus for which a proper shipping name exists in the §172.101

Table. Except when approved by the Associate Administrator, machinery or apparatus may only contain hazardous materials for which exceptions are referenced in Column (8) of the §172.101 Table and are provided in part 173, subpart D, of this subchapter. Hazardous materials shipped under this entry are excepted from the labeling requirements of this subchapter unless offered for transportation or transported by aircraft and are not subject to the placarding requirements of part 172, subpart F, of this subchapter. Orientation markings as described in §172.312 (a)(2) are required when liquid hazardous materials may escape due to incorrect orientation. The machinery or apparatus, if unpackaged, or the packaging in which it is contained shall be marked ''Dangerous goods in machinery'' or ''Dangerous goods in apparatus'', as appropriate, with the identification number UN3363. For transportation by aircraft, machinery or apparatus may not contain any material forbidden for transportation by passenger or cargo aircraft. The Associate Administrator may except from the requirements of this subchapter, equipment, machinery and apparatus provided:

a. It is shown that it does not pose a significant risk in transportation;

b. The quantities of hazardous materials do not exceed those specified in §173.4 of this subchapter; and

c. The equipment, machinery or apparatus conforms with §173.222 of this subchapter.

137 Cotton, dry; flax, dry; and sisal, dry are not subject to the requirements of this subchapter when they are baled in accordance with ISO 8115, ''Cotton Bales—Dimensions and Density'' (IBR, see §171.7 of this subchapter) to a density of not less than 360 kg/m^3 (22.1 lb/ft^3) for cotton, 400 kg/m^3 (24.97 lb/ft^3) for flax and 620 kg/m^3 (38.71 lb/ft^3) for sisal and transported in a freight container or closed transport vehicle.

138 Lead compounds which, when mixed in a ratio of 1:1000 with 0.07M (Molar concentration) hydrochloric acid and stirred for one hour at a temperature of 23 °C ±2 °C, exhibit a solubility of 5% or less are considered insoluble.

139 Use of the ''special arrangement'' proper shipping names for international shipments must be made under an IAEA Certificate of Competent Authority issued by the Associate Administrator in accordance with the requirements in §173.471, §173.472, or §173.473 of this subchapter. Use of these proper shipping names for domestic shipments may be made only under a DOT special permit, as defined in, and in accordance with the requirements of subpart B of part 107 of this subchapter.

140 This material is regulated only when it meets the defining criteria for a hazardous substance or a marine pollutant. In addition, the column 5 reference is modified to read ''III'' on those occasions when this material is offered for transportation or transported by highway or rail.

141 A toxin obtained from a plant, animal, or bacterial source containing an infectious substance, or a toxin contained in an infectious substance, must be classed as Division 6.2, described as an infectious substance, and assigned to UN 2814 or UN 2900, as appropriate.

142 These hazardous materials may not be classified and transported unless authorized by the Associate Administrator. The Associate Administrator will base the authorization on results from Series 2 tests and a Series 6(c) test from the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter) on packages as prepared for transport in accordance with the requirements of this subchapter.

144 If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see §171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.

145 This entry applies to formulations that neither detonate in the cavitated state nor deflagrate in laboratory testing, show no effect when heated under confinement, exhibit no explosive power, and are thermally stable (self-accelerating decomposition temperature (SADT) at 60 °C (140 °F) or higher for a 50 kg (110.2 lbs.) package). Formulations not meeting these criteria must be transported under the provisions applicable to the appropriate entry in the Organic Peroxide Table in §173.225 of this subchapter.

146 This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in §171.8 of this subchapter, or any hazard class, as defined in part 173 of this subchapter, if it is designated as environmentally hazardous by another Competent Authority. This provision may be used for both domestic and international shipments.

147 This entry applies to non-sensitized emulsions, suspensions, and gels consisting primarily of a mixture of ammonium nitrate and fuel, intended to produce a Type E blasting explosive only after further processing prior to use. The mixture for emulsions typically has the following composition: 60–85% ammonium nitrate; 5–30%

water; 2–8% fuel; 0.5–4% emulsifier or thickening agent; 0–10% soluble flame suppressants; and trace additives. Other inorganic nitrate salts may replace part of the ammonium nitrate. The mixture for suspensions and gels typically has the following composition: 60–85% ammonium nitrate; 0–5% sodium or potassium perchlorate; 0–17% hexamine nitrate or monomethylamine nitrate; 5–30% water; 2–15% fuel; 0.5–4% thickening agent; 0–10% soluble flame suppressants; and trace additives. Other inorganic nitrate salts may replace part of the ammonium nitrate. These substances must satisfactorily pass Test Series 8 of the UN Manual of Tests and Criteria, Part I, Section 18 (IBR, see § 171.7 of this subchapter), and may not be classified and transported unless approved by the Associate Administrator.

149 When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in § 173.150(b)(2) of this subchapter for inner packagings may be increased to 5 L (1.3 gallons).

150 This description may be used only for uniform mixtures of fertilizers containing ammonium nitrate as the main ingredient within the following composition limits:

a. Not less than 90% ammonium nitrate with not more than 0.2% total combustible, organic material calculated as carbon, and with added matter, if any, that is inorganic and inert when in contact with ammonium nitrate; or

b. Less than 90% but more than 70% ammonium nitrate with other inorganic materials, or more than 80% but less than 90% ammonium nitrate mixed with calcium carbonate and/or dolomite, and not more than 0.4% total combustible, organic material calculated as carbon; or

c. Ammonium nitrate-based fertilizers containing mixtures of ammonium nitrate and ammonium sulphate with more than 45% but less than 70% ammonium nitrate, and not more than 0.4% total combustible, organic material calculated as carbon such that the sum of the percentage of compositions of ammonium nitrate and ammonium sulphate exceeds 70%.

151 If this material meets the definition of a flammable liquid in § 173.120 of this subchapter, a FLAMMABLE LIQUID label is also required and the basic description on the shipping paper must indicate the Class 3 subsidiary hazard.

155 Fish meal or fish scrap may not be transported if the temperature at the time of loading either exceeds 35 °C (95 °F), or exceeds 5 °C (41 °F) above the ambient temperature, whichever is higher.

156 Asbestos that is immersed or fixed in a natural or artificial binder material, such as cement, plastic, asphalt, resins or mineral ore, or contained in manufactured products is not subject to the requirements of this subchapter.

157 This entry includes hybrid electric vehicles powered by both an internal combustion engine and wet, sodium or lithium batteries installed. Vehicles containing an internal combustion engine must be consigned under the entry ''Vehicle, flammable gas powered'' or ''Vehicle, flammable liquid powered'', as appropriate. Except as provided in Special Provision A102, vehicles powered by primary lithium batteries, that are transported with these batteries installed are forbidden aboard passenger-carrying aircraft.

159 This material must be protected from direct sunshine and kept in a cool, well-ventilated place away from sources of heat.

160 This entry applies to articles that are used as life-saving vehicle air bag inflators, air bag modules or seat-belt pretensioners containing Class 1 (explosive) materials or materials of other hazard classes. Air bag inflators and modules must be tested in accordance with Test series 6(c) of Part I of the UN Manual of Tests and Criteria (incorporated by reference; see § 171.7 of this subchapter), with no explosion of the device, no fragmentation of device casing or pressure vessel, and no projection hazard or thermal effect that would significantly hinder fire-fighting or other emergency response efforts in the immediate vicinity. If the air bag inflator unit satisfactorily passes the series 6(c) test, it is not necessary to repeat the test on the air bag module.

161 For domestic transport, air bag inflators, air bag modules or seat belt pretensioners that meet the criteria for a Division 1.4G explosive must be transported using the description, ''Articles, pyrotechnic *for technical purposes*,'' UN0431.

162 This material may be transported under the provisions of Division 4.1 only if it is packed so that at no time during transport will the percentage of diluent fall below the percentage that is stated in the shipping description.

163 Substances must satisfactorily pass Test Series 8 of the UN Manual of Tests and Criteria, Part I, Section 18 (IBR, see § 171.7 of this subchapter).

164 Substances must not be transported under this entry unless approved by the Associate Administrator on the basis of the results of appropriate tests according to Part I of the UN Manual of Tests and Criteria (IBR, see § 171.7 of this subchapter). The material must be packaged so that the percentage of diluent does not fall below that stated in the approval at any time during transportation.

165 These substances are susceptible to exothermic decomposition at elevated temperatures. Decomposition can be initiated by heat, moisture or by impurities (e.g.,

powdered metals (iron, manganese, cobalt, magnesium)). During the course of transportation, these substances must be shaded from direct sunlight and all sources of heat and be placed in adequately ventilated areas.

166 When transported in non-friable tablet form, calcium hypochlorite, dry, may be transported as a Packing Group III material.

167 These storage systems shall always be considered as containing hydrogen.

168 For lighters containing a Division 2.1 gas (*see* §171.8 of this subchapter), representative samples of each new lighter design must be examined and successfully tested as specified in §173.308(b)(3). For criteria in determining what is a new lighter design, *see* §173.308(b)(1). For transportation of new lighter design samples for examination and testing, *see* §173.308(b)(2). The examination and testing of each lighter design must be performed by a person authorized by the Associate Administrator under the provisions of subpart E of part 107 of this chapter, as specified in §173.308(a)(4). For continued use of approvals dated prior to January 1, 2012, *see* §173.308(b)(5).

For non-pressurized lighters containing a Class 3 (flammable liquid) material, its design, description, and packaging must be approved by the Associate Administrator prior to being offered for transportation or transported in commerce. In addition, a lighter design intended to contain a non-pressurized Class 3 material is excepted from the examination and testing criteria specified in §173.308(b)(3). An unused lighter or a lighter that is cleaned of residue and purged of vapors is not subject to the requirements of this subchapter.

169 This entry applies to lighter refills (*see* §171.8 of this subchapter) that contain a Division 2.1 (flammable) gas but do not contain an ignition device. Lighter refills offered for transportation under this entry may not exceed 4 fluid ounces capacity (7.22 cubic inches) or contain more than 65 grams of fuel. A lighter refill exceeding 4 fluid ounces capacity (7.22 cubic inches) or containing more than 65 grams of fuel must be classed as a Division 2.1 material, described with the proper shipping name appropriate for the material, and packaged in the packaging specified in part 173 of this subchapter for the flammable gas contained therein. In addition, a container exceeding 4 fluid ounces volumetric capacity (7.22 cubic inches) or containing more than 65 grams of fuel may not be connected or manifolded to a lighter or similar device and must also be described and packaged according to the fuel contained therein. For transportation by passenger-carrying aircraft, the net mass of lighter refills may not exceed 1 kg per package, and, for cargo-only aircraft, the net mass of lighter refills may not exceed 15 kg per package. See §173.306(h) of this subchapter.

170 Air must be eliminated from the vapor space by nitrogen or other means.

171 This entry may only be used when the material is transported in non-friable tablet form or for granular or powered mixtures that have been shown to meet the PG III criteria in §173.127.

172 This entry includes alcohol mixtures containing up to 5% petroleum products.

173 An appropriate generic entry may be used for this material.

175 This substance must be stabilized when in concentrations of not more than 99%.

(2) *''A'' codes.* These provisions apply only to transportation by aircraft:

Code/Special Provisions

A1 Single packagings are not permitted on passenger aircraft.

A2 Single packagings are not permitted on aircraft.

A3 For combination packagings, if glass inner packagings (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packagings.

A4 Liquids having an inhalation toxicity of Packing Group I are not permitted on aircraft.

A5 Solids having an inhalation toxicity of Packing Group I are not permitted on passenger aircraft and may not exceed a maximum net quantity per package of 15 kg (33 pounds) on cargo aircraft.

A6 For combination packagings, if plastic inner packagings are used, they must be packed in tightly closed metal receptacles before packing in outer packagings.

A7 Steel packagings must be corrosion-resistant or have protection against corrosion.

A8 For combination packagings, if glass inner packagings (including ampoules) are used, they must be packed with cushioning material in tightly closed metal receptacles before packing in outer packagings.

A9 For combination packagings, if plastic bags are used, they must be packed in tightly closed metal receptacles before packing in outer packagings.

A10 When aluminum or aluminum alloy construction materials are used, they must be resistant to corrosion.

A11 For combination packagings, when metal inner packagings are permitted, only specification cylinders constructed of metals which are compatible with the hazardous material may be used.

A13 Bulk packagings are not authorized for transportation by aircraft.

A14 This material is not authorized to be transported as a limited quantity or consumer commodity in accordance with

§ 173.306 of this subchapter when transported aboard an aircraft.

A19 Combination packagings consisting of outer fiber drums or plywood drums, with inner plastic packagings, are not authorized for transportation by aircraft.

A20 Plastic bags as inner receptacles of combination packagings are not authorized for transportation by aircraft.

A29 Combination packagings consisting of outer expanded plastic boxes with inner plastic bags are not authorized for transportation by aircraft.

A30 Ammonium permanganate is not authorized for transportation on aircraft.

A34 Aerosols containing a corrosive liquid in Packing Group II charged with a gas are not permitted for transportation by aircraft.

A35 This includes any material which is not covered by any of the other classes but which has an anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so as to prevent the correct performance of assigned duties.

A37 This entry applies only to a material meeting the definition in § 171.8 of this subchapter for self-defense spray.

A51 When transported by cargo-only aircraft, an oxygen generator must conform to the provisions of an approval issued under Special Provision 60 and be contained in a packaging prepared and originally offered for transportation by the approval holder.

A52 A cylinder containing Oxygen, compressed, may not be loaded into a passenger-carrying aircraft or into an inaccessible cargo location on a cargo-only aircraft unless it is placed in an overpack or outer packaging that conforms to the performance criteria of Air Transport Association (ATA) Specification No. 300 (IBR, see § 171.7 of this subchapter) for Category I shipping containers.

A53 Refrigerating machines and refrigerating machine components are not subject to the requirements of this subchapter when containing less than 12 kg (26.4 pounds) of a non-flammable gas or when containing 12 L (3 gallons) or less of ammonia solution (UN2672) (see § 173.307 of this subchapter).

A54 Lithium batteries or lithium batteries contained or packed with equipment that exceed the maximum gross weight allowed by Column (9B) of the § 172.101 Table may only be transported on cargo aircraft if approved by the Associate Administrator.

A55 Prototype lithium batteries and cells that are packed with not more than 24 cells or 12 batteries per packaging that have not completed the test requirements in Sub-section 38.3 of the UN Manual of Tests and Criteria (incorporated by reference; see § 171.7 of this subchapter) may be transported by cargo aircraft if approved by the Associate Administrator and provided the following requirements are met:

a. The cells and batteries must be transported in rigid outer packagings that conform to the requirements of Part 178 of this subchapter at the Packing Group I performance level; and

b. Each cell and battery must be protected against short circuiting, must be surrounded by cushioning material that is non-combustible and non-conductive, and must be individually packed in an inner packaging that is placed inside an outer specification packaging.

A56 Radioactive material with a subsidiary hazard of Division 4.2, Packing Group I, must be transported in Type B packages when offered for transportation by aircraft. Radioactive material with a subsidiary hazard of Division 2.1 is forbidden from transport on passenger aircraft.

A59 Sterilization devices, when containing less than 30 mL per inner packaging with no more than 300 mL per outer packaging may be transported in accordance with provisions in § 173.4(a)(11)(i). In addition, after filling, each inner packaging must be determined to be leak-tight by placing the inner packaging in a hot water bath at a temperature and for a period of time sufficient to ensure an internal pressure equal to the vapor pressure of ethylene oxide at 55 °C is achieved. Any inner packaging showing evidence of leakage, distortion or other defect under this test may not be transported under the terms of this special provision. In addition to the packaging required in § 173.4, inner packagings must be placed in a sealed plastic bag compatible with ethylene oxide and capable of containing the contents in the event of breakage or leakage of the inner packaging. Glass inner packagings must be placed within a protective shield capable of preventing the glass from puncturing the plastic bag in the event of damage to the packaging (e.g., crushing).

A60 Articles such as sterilization devices, UN2014, Hydrogen peroxide, aqueous solutions *with more than 40 percent but not more than 60 percent hydrogen peroxide (stabilized as necessary*), when containing less than 30 mL per inner packaging with not more than 150 mL per outer packaging, may be transported in accordance with the provisions in § 173.4, irrespective of § 173.4(a)(11)(i), provided such packagings were first subjected to comparative fire testing. Comparative fire testing must show no difference in burning rate between a package as prepared for transport (including the substance to be transported) and an identical package filled with water.

A82 The quantity limits in columns (9A) and (9B) do not apply to human or animal body parts, whole organs or whole bodies known to contain or suspected of containing an infectious substance.

A100 Primary (non-rechargeable) lithium batteries and cells are forbidden for transport aboard passenger carrying aircraft. Secondary (rechargeable) lithium batteries and cells are authorized aboard passenger carrying aircraft in packages that do not exceed a gross weight of 5 kg.

A101 A primary (non-rechargeable) lithium battery or cell packed with equipment is forbidden for transport aboard a passenger carrying aircraft unless:

a. The battery or cell complies with the requirements and limitations of §173.185(b)(1), (b)(2), (b)(3), (b)(4) and (b)(6) or §173.185(c)(1), (c)(2), (c)(3) and (c)(5) of this subchapter;

b. The package contains no more than the number of lithium batteries or cells necessary to power the intended piece of equipment;

c. The equipment and the battery or cell are packed in a strong packaging;

d. The net weight of the lithium batteries in the package does not exceed 5 kg. Packages complying with the requirements of this special provision are excepted from all other requirements of this subchapter.

A102 A primary (non-rechargeable) lithium battery or cell contained in equipment is forbidden for transport aboard a passenger carrying aircraft unless:

a. The battery or cell complies with the requirements and limitations of §173.185(b)(1), (b)(2), (b)(3), (b)(4) and (b)(6) or §173.185(c)(1), (c)(2), (c)(3) and (c)(5) of this subchapter;

b. The package contains no more than the number of lithium batteries or cells necessary to power the intended piece of equipment;

c. The equipment containing the battery or cell is packed in strong packagings; and

d. The net weight of the package does not exceed 5 kg. Packages complying with the requirements of this special provision are excepted from all other requirements of this subchapter.

A103 A secondary (rechargeable) lithium battery or cell packed with equipment is authorized aboard passenger carrying aircraft in packages that do not exceed a gross weight of 5 kg.

A104 A secondary (rechargeable) lithium battery or cell packed in equipment is authorized aboard passenger carrying aircraft in packages that do not exceed a net weight of 5 kg.

A105 The total net quantity of dangerous goods contained in one package, excluding magnetic material, must not exceed the following:

a. 1 kg (2.2 pounds) in the case of solids;

b. 0.5 L (0.1 gallons) in the case of liquids;

c. 0.5 kg (1.1 pounds) in the case of Division 2.2 gases; or

d. any combination thereof.

(3) *''B'' codes.* These provisions apply only to bulk packagings. Except as otherwise provided in this subchapter, these special provisions do not apply to UN portable tanks or IBCs:

Code/Special Provisions

B1 If the material has a flash point at or above 38 °C (100 °F) and below 93 °C (200 °F), then the bulk packaging requirements of §173.241 of this subchapter are applicable. If the material has a flash point of less than 38 °C (100 °F), then the bulk packaging requirements of §173.242 of this subchapter are applicable.

B2 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

B3 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized.

B4 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

B5 Only ammonium nitrate solutions with 35 percent or less water that will remain completely in solution under all conditions of transport at a maximum lading temperature of 116 °C (240 °F) are authorized for transport in the following bulk packagings: MC 307, MC 312, DOT 407 and DOT 412 cargo tanks with at least 172 kPa (25 psig) design pressure. The packaging shall be designed for a working temperature of at least 121 °C (250 °F). Only Specifications MC 304, MC 307 or DOT 407 cargo tank motor vehicles are authorized for transportation by vessel.

B6 Packagings shall be made of steel.

B7 Safety relief devices are not authorized on multi-unit tank car tanks. Openings for safety relief devices on multi-unit tank car tanks shall be plugged or blank flanged.

B8 Packagings shall be made of nickel, stainless steel, or steel with nickel, stainless steel, lead or other suitable corrosion resistant metallic lining.

B9 Bottom outlets are not authorized.

B10 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks, and DOT 57 portable tanks are not authorized.

B11 Tank car tanks must have a test pressure of at least 2,068.5 kPa (300 psig). Cargo and portable tanks must have a design pressure of at least 1,207 kPa (175 psig).

B13 A nonspecification cargo tank motor vehicle authorized in §173.247 of this subchapter must be at least equivalent in design and in construction to a DOT 406 cargo tank or MC 306 cargo tank (if constructed before August 31, 1995), except as follows:

a. Packagings equivalent to MC 306 cargo tanks are excepted from the certification, venting, and emergency flow requirements of the MC 306 specification.

b. Packagings equivalent to DOT 406 cargo tanks are excepted from §§178.345–7(d)(5), circumferential reinforcements; 178.345–10, pressure relief; 178.345–11, outlets; 178.345–14, marking, and 178.345–15, certification.

c. Packagings are excepted from the design stress limits at elevated temperatures, as described in Section VIII of the ASME Code (IBR, see §171.7 of this subchapter). However, the design stress limits may not exceed 25 percent of the stress for 0 temper at the maximum design temperature of the cargo tank, as specified in the Aluminum Association's ''Aluminum Standards and Data'' (IBR, see §171.7 of this subchapter).

B14 Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 °C (60 °F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet.

B15 Packagings must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance.

B16 The lading must be completely covered with nitrogen, inert gas or other inert materials.

B18 Open steel hoppers or bins are authorized.

B23 Tanks must be made of steel that is rubber lined or unlined. Unlined tanks must be passivated before being placed in service. If unlined tanks are washed out with water, they must be repassivated prior to return to service. Lading in unlined tanks must be inhibited so that the corrosive effect on steel is not greater than that of hydrofluoric acid of 65 percent concentration.

B25 Packagings must be made from monel or nickel or monel-lined or nickel-lined steel.

B26 Tanks must be insulated. Insulation must be at least 100 mm (3.9 inches) except that the insulation thickness may be reduced to 51 mm (2 inches) over the exterior heater coils. Interior heating coils are not authorized. The packaging may not be loaded with a material outside of the packaging's design temperature range. In addition, the material also must be covered with an inert gas or the container must be filled with water to the tank's capacity. After unloading, the residual material also must be covered with an inert gas or the container must be filled with water to the tank's capacity.

B27 Tanks must have a service pressure of 1,034 kPa (150 psig). Tank car tanks must have a test pressure rating of 1,379 kPa (200 psig). Lading must be blanketed at all times with a dry inert gas at a pressure not to exceed 103 kPa (15 psig).

B28 Packagings must be made of stainless steel.

B30 MC 312, MC 330, MC 331 and DOT 412 cargo tanks and DOT 51 portable tanks must be made of stainless steel, except that steel other than stainless steel may be used in accordance with the provisions of §173.24b(b) of this subchapter. Thickness of stainless steel for tank shell and heads for cargo tanks and portable tanks must be the greater of 7.62 mm (0.300 inch) or the thickness required for a tank with a design pressure at least equal to 1.5 times the vapor pressure of the lading at 46 °C (115 °F). In addition, MC 312 and DOT 412 cargo tank motor vehicles must:

a. Be ASME Code (U) stamped for 100% radiography of all pressure-retaining welds;

b. Have accident damage protection which conforms with §178.345–8 of this subchapter;

c. Have a MAWP or design pressure of at least 87 psig: and

d. Have a bolted manway cover.

B32 MC 312, MC 330, MC 331, DOT 412 cargo tanks and DOT 51 portable tanks must be made of stainless steel, except that steel other than stainless steel may be used in accordance with the provisions of §173.24b(b) of this subchapter. Thickness of stainless steel for tank shell and heads for cargo tanks and portable tanks must be the greater of 6.35 mm (0.250 inch) or the thickness required for a tank with a design pressure at least equal to 1.3 times the vapor pressure of the lading at 46 °C (115 °F). In addition, MC 312 and DOT 412 cargo tank motor vehicles must:

a. Be ASME Code (U) stamped for 100% radiography of all pressure-retaining welds;

b. Have accident damage protection which conforms with §178.345–8 of this subchapter;

c. Have a MAWP or design pressure of at least 87 psig; and

d. Have a bolted manway cover.

B33 MC 300, MC 301, MC 302, MC 303, MC 305, MC 306, and DOT 406 cargo tanks equipped with a 1 psig normal vent used to transport gasoline must conform to Table I of this Special Provision. Based on the volatility class determined by using ASTM D 439 and the Reid vapor pressure (RVP) of the particular gasoline, the maximum lading pressure and maximum ambient temperature permitted during the loading of gasoline may not exceed that listed in Table I.

TABLE I—MAXIMUM AMBIENT TEMPERATURE—GASOLINE

ASTM D439 volatility class	Maximum lading and ambient temperature (see note 1)
A (RVP<=9.0 psia)	131 °F
B (RVP<=10.0 psia)	124 °F
C (RVP<=11.5 psia)	116 °F
D (RVP<=13.5 psia)	107 °F
E (RVP<=15.0 psia)	100 °F

NOTE 1: Based on maximum lading pressure of 1 psig at top of cargo tank.

B35 Tank cars containing hydrogen cyanide may be alternatively marked ''Hydrocyanic acid, liquefied'' if otherwise conforming to marking requirements in subpart D of this part. Tank cars marked ''HYDROCYANIC ACID'' prior to October 1, 1991 do not need to be remarked.

B37 The amount of nitric oxide charged into any tank car tank may not exceed 1,379 kPa (200 psig) at 21 °C (70 °F).

B42 Tank cars must have a test pressure of 34.47 Bar (500 psig) or greater and conform to Class 105J. Each tank car must have a reclosing pressure relief device having a start-to-discharge pressure of 10.34 Bar (150 psig). The tank car specification may be marked to indicate a test pressure of 13.79 Bar (200 psig).

B44 All parts of valves and safety relief devices in contact with lading must be of a material which will not cause formation of acetylides.

B45 Each tank must have a reclosing combination pressure relief device equipped with stainless steel or platinum rupture discs approved by the AAR Tank Car Committee.

B46 The detachable protective housing for the loading and unloading valves of multi-unit tank car tanks must withstand tank test pressure and must be approved by the Associate Administrator.

B47 Each tank may have a reclosing pressure relief device having a start-to-discharge pressure setting of 310 kPa (45 psig).

B48 Portable tanks in sodium metal service may be visually inspected at least once every 5 years instead of being retested hydrostatically. Date of the visual inspection must be stenciled on the tank near the other required markings.

B49 Tanks equipped with interior heater coils are not authorized. Single unit tank car tanks must have a reclosing pressure relief device having a start-to-discharge pressure set at no more than 1551 kPa (225 psig).

B50 Each valve outlet of a multi-unit tank car tank must be sealed by a threaded solid plug or a threaded cap with inert luting or gasket material. Valves must be of stainless steel and the caps, plugs, and valve seats must be of a material that will not deteriorate as a result of contact with the lading.

B52 Notwithstanding the provisions of § 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

B53 Packagings must be made of either aluminum or steel.

B54 Open-top, sift-proof rail cars are also authorized.

B55 Water-tight, sift-proof, closed-top, metal-covered hopper cars, equipped with a venting arrangement (including flame arrestors) approved by the Associate Administrator are also authorized.

B56 Water-tight, sift-proof, closed-top, metal-covered hopper cars are also authorized if the particle size of the hazardous material is not less than 149 microns.

B57 Class 115A tank car tanks used to transport chloroprene must be equipped with a non-reclosing pressure relief device of a diameter not less than 305 mm (12 inches) with a maximum rupture disc pressure of 310 kPa (45 psig).

B59 Water-tight, sift-proof, closed-top, metal-covered hopper cars are also authorized provided that the lading is covered with a nitrogen blanket.

B60 DOT Specification 106A500X multi-unit tank car tanks that are not equipped with a pressure relief device of any type are authorized. For the transportation of phosgene, the outage must be sufficient to prevent tanks from becoming liquid full at 55 °C (130 °F).

B61 Written procedures covering details of tank car appurtenances, dome fittings, safety devices, and marking, loading, handling, inspection, and testing practices must be approved by the Associate Administrator before any single unit tank car tank is offered for transportation.

B64 Each single unit tank car tank built after December 31, 1990 must be equipped with a tank head puncture resistance system that conforms to § 179.16 of this subchapter.

B65 Tank cars must have a test pressure of 34.47 Bar (500 psig) or greater and conform to Class 105A. Each tank car must have a pressure relief device having a start-to-discharge pressure of 15.51 Bar (225 psig). The tank car specification may be marked to indicate a test pressure of 20.68 Bar (300 psig).

B66 Each tank must be equipped with gas tight valve protection caps. Outage must be sufficient to prevent tanks from becoming liquid full at 55 °C (130 °F). Specification 110A500W tanks must be stainless steel.

B67 All valves and fittings must be protected by a securely attached cover made of metal not subject to deterioration by the lading, and all valve openings, except safety valve, must be fitted with screw plugs or caps to prevent leakage in the event of valve failure.

B68 Sodium must be in a molten condition when loaded and allowed to solidify before shipment. Outage must be at least 5 percent at 98 °C (208 °F). Bulk packagings must have exterior heating coils fusion welded to the tank shell which have been properly stress relieved. The only tank car tanks authorized are Class DOT 105 tank cars having a test pressure of 2,069 kPa (300 psig) or greater.

B69 Dry sodium cyanide or potassium cyanide may be shipped in sift-proof weather-resistant metal covered hopper car, covered motor vehicles, portable tanks or non-specification bins. Bins must be approved by the Associate Administrator.

B70 If DOT 103ANW tank car tank is used: All cast metal in contact with the lading must have 96.7 percent nickel content; and the lading must be anhydrous and free from any impurities.

B71 Tank cars must have a test pressure of 20.68 Bar (300 psig) or greater and conform to Class 105, 112, 114 or 120.

B72 Tank cars must have a test pressure of 34.47 Bar (500 psig) or greater and conform to Class 105J, 106, or 110.

B74 Tank cars must have a test pressure of 20.68 Bar (300 psig) or greater and conform to Class 105S, 106, 110, 112J, 114J or 120S.

B76 Tank cars must have a test pressure of 20.68 Bar (300 psig) or greater and conform to Class 105S, 112J, 114J or 120S. Each tank car must have a reclosing pressure relief device having a start-to-discharge pressure of 10.34 Bar (150 psig). The tank car specification may be marked to indicate a test pressure of 13.79 Bar (200 psig).

B77 Other packaging are authorized when approved by the Associate Administrator.

B78 Tank cars must have a test pressure of 4.14 Bar (60 psig) or greater and conform to Class 103, 104, 105, 109, 111, 112, 114 or 120. Heater pipes must be of welded construction designed for a test pressure of 500 psig. A 25 mm (1 inch) woven lining of asbestos or other approved material must be placed between the bolster slabbing and the bottom of the tank. If a tank car tank is equipped with a non-reclosing pressure relief device, the rupture disc must be perforated with a 3.2 mm (0.13 inch) diameter hole. If a tank car tank is equipped with a reclosing pressure relief valve, the tank must also be equipped with a vacuum relief valve.

B80 Each cargo tank must have a minimum design pressure of 276 kPa (40 psig).

B81 Venting and pressure relief devices for tank car tanks and cargo tanks must be approved by the Associate Administrator.

B82 Cargo tanks and portable tanks are not authorized.

B83 Bottom outlets are prohibited on tank car tanks transporting sulfuric acid in concentrations over 65.25 percent.

B84 Packagings must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance for sulfuric acid or spent sulfuric acid in concentration up to 65.25 percent.

B85 Cargo tanks must be marked with the name of the lading in accordance with the requirements of § 172.302(b).

B90 Steel tanks conforming or equivalent to ASME specifications which contain solid or semisolid residual motor fuel anti-knock mixture (including rust, scale, or other contaminants) may be shipped by rail freight or highway. The tank must have been designed and constructed to be capable of withstanding full vacuum. All openings must be closed with gasketed blank flanges or vapor tight threaded closures.

B115 Rail cars, highway trailers, roll-on/roll-off bins, or other non-specification bulk packagings are authorized. Packagings must be sift-proof, prevent liquid water from reaching the hazardous material, and be provided with sufficient venting to preclude dangerous accumulation of flammable, corrosive, or toxic gaseous emissions such as methane, hydrogen, and ammonia. The material must be loaded dry.

(4) *Table 1 and Table 2—IB Codes and IP Special IBC Packing Provisions.* These provisions apply only to transportation in IBCs. When no IBC code is assigned in the § 172.101 Table for a specific proper shipping name, or in § 173.225(e) for Type F organic peroxides, an IBC may not be used unless authorized by the Associate Administrator. The letter ''Z'' shown in the marking code for composite IBCs must be replaced with a capital code letter designation found in § 178.702(a)(2) of this subchapter to specify the material used for the outer packaging. Tables 1 and 2 follow:

TABLE 1—IB CODES (IBC CODES)

IBC Code	Authorized IBCs
IB1	*Authorized IBCs:* Metal (31A, 31B and 31N).

TABLE 1—IB CODES (IBC CODES)—Continued

IBC Code	Authorized IBCs
	Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized.
IB2	*Authorized IBCs:* Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1).
	Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized.
IB3	*Authorized IBCs:* Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2).
	Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
IB4	*Authorized IBCs:* Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N).
IB5	*Authorized IBCs:* Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 21HZ1 and 31HZ1).
IB6	*Authorized IBCs:* Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2).
	Additional Requirement: Composite IBCs 11HZ2 and 21HZ2 may not be used when the hazardous materials being transported may become liquid during transport.
IB7	*Authorized IBCs:* Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Wooden (11C, 11D and 11F).
	Additional Requirement: Liners of wooden IBCs must be sift- proof.
IB8	*Authorized IBCs:* Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
IB9	IBCs are only authorized if approved by the Associate Administrator.

TABLE 2—IP CODES

IBC Code	Authorized IBCs
IP1	IBCs must be packed in closed freight containers or a closed transport vehicle.
IP2	When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.
IP3	Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
IP4	Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.
IP5	IBCs must have a device to allow venting. The inlet to the venting device must be located in the vapor space of the IBC under maximum filling conditions.
IP6	Non-specification bulk bins are authorized.
IP7	For UN identification numbers 1327, 1363, 1364, 1365, 1386, 1841, 2211, 2217, 2793 and 3314, IBCs are not required to meet the IBC performance tests specified in part 178, subpart N of this subchapter.
IP8	Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the hydrostatic test specified in § 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 °C (131 °F).
IP13	Transportation by vessel in IBCs is prohibited.
IP14	Air shall be eliminated from the vapor space by nitrogen or other means.
IP20	Dry sodium cyanide or potassium cyanide is also permitted in siftproof, water-resistant, fiberboard IBCs when transported in closed freight containers or transport vehicles.

(5) *''N'' codes.* These provisions apply only to non-bulk packagings:

Code/Special Provisions

N3 Glass inner packagings are permitted in combination or composite packagings only if the hazardous material is free from hydrofluoric acid.

N4 For combination or composite packagings, glass inner packagings, other than ampoules, are not permitted.

N5 Glass materials of construction are not authorized for any part of a packaging which is normally in contact with the hazardous material.

N6 Battery fluid packaged with electric storage batteries, wet or dry, must conform to the packaging provisions of § 173.159 (g) or (h) of this subchapter.

N7 The hazard class or division number of the material must be marked on the package in accordance with § 172.302 of this subchapter. However, the hazard label corresponding to the hazard class or division may be substituted for the marking.

N8 Nitroglycerin solution in alcohol may be transported under this entry only when the

solution is packed in metal cans of not more than 1 L capacity each, overpacked in a wooden box containing not more than 5 L. Metal cans must be completely surrounded with absorbent cushioning material. Wooden boxes must be completely lined with a suitable material impervious to water and nitroglycerin.

N11 This material is excepted for the specification packaging requirements of this subchapter if the material is packaged in strong, tight non-bulk packaging meeting the requirements of subparts A and B of part 173 of this subchapter.

N12 Plastic packagings are not authorized.

N20 A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.

N25 Steel single packagings are not authorized.

N32 Aluminum materials of construction are not authorized for single packagings.

N33 Aluminum drums are not authorized.

N34 Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.

N36 Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum.

N37 This material may be shipped in an integrally-lined fiber drum (1G) which meets the general packaging requirements of subpart B of part 173 of this subchapter, the requirements of part 178 of this subchapter at the packing group assigned for the material and to any other special provisions of column 7 of the § 172.101 table.

N40 This material is not authorized in the following packagings:

a. A combination packaging consisting of a 4G fiberboard box with inner receptacles of glass or earthenware;

b. A single packaging of a 4C2 sift-proof, natural wood box; or

c. A composite packaging 6PG2 (glass, porcelain or stoneware receptacles within a fiberboard box).

N41 Metal construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.

N42 1A1 drums made of carbon steel with thickness of body and heads of not less than 1.3 mm (0.050 inch) and with a corrosion-resistant phenolic lining are authorized for stabilized benzyl chloride if tested and certified to the Packing Group I performance level at a specific gravity of not less than 1.8.

N43 Metal drums are permitted as single packagings only if constructed of nickel or monel.

N45 Copper cartridges are authorized as inner packagings if the hazardous material is not in dispersion.

N65 Outage must be sufficient to prevent cylinders or spheres from becoming liquid full at 55 °C (130 °F). The vacant space (outage) may be charged with a nonflammable nonliquefied compressed gas if the pressure in the cylinder or sphere at 55 °C (130 °F) does not exceed 125 percent of the marked service pressure.

N72 Packagings must be examined by the Bureau of Explosives and approved by the Associate Administrator.

N73 Packagings consisting of outer wooden or fiberboard boxes with inner glass, metal or other strong containers; metal or fiber drums; kegs or barrels; or strong metal cans are authorized and need not conform to the requirements of part 178 of this subchapter.

N74 Packages consisting of tightly closed inner containers of glass, earthenware, metal or polyethylene, capacity not over 0.5 kg (1.1 pounds) securely cushioned and packed in outer wooden barrels or wooden or fiberboard boxes, not over 15 kg (33 pounds) net weight, are authorized and need not conform to the requirements of part 178 of this subchapter.

N75 Packages consisting of tightly closed inner packagings of glass, earthenware or metal, securely cushioned and packed in outer wooden barrels or wooden or fiberboard boxes, capacity not over 2.5 kg (5.5 pounds) net weight, are authorized and need not conform to the requirements of part 178 of this subchapter.

N76 For materials of not more than 25 percent active ingredient by weight, packages consisting of inner metal packagings not greater than 250 mL (8 ounces) capacity each, packed in strong outer packagings together with sufficient absorbent material to completely absorb the liquid contents are authorized and need not conform to the requirements of part 178 of this subchapter.

N77 For materials of not more than two percent active ingredients by weight, packagings need not conform to the requirements of part 178 of this subchapter, if liquid contents are absorbed in an inert material.

N78 Packages consisting of inner glass, earthenware, or polyethylene or other nonfragile plastic bottles or jars not over 0.5 kg (1.1 pounds) capacity each, or metal cans not over five pounds capacity each, packed in outer wooden boxes, barrels or kegs, or fiberboard boxes are authorized and need not conform to the requirements of part 178 of this subchapter. Net weight of contents in fiberboard boxes may not exceed 29 kg (64 pounds). Net weight of contents in wooden boxes, barrels or kegs may not exceed 45 kg (99 pounds).

N79 Packages consisting of tightly closed metal inner packagings not over 0.5 kg (1.1 pounds) capacity each, packed in outer

wooden or fiberboard boxes, or wooden barrels, are authorized and need not conform to the requirements of part 178 of this subchapter. Net weight of contents may not exceed 15 kg (33 pounds).

N80 Packages consisting of one inner metal can, not over 2.5 kg (5.5 pounds) capacity, packed in an outer wooden or fiberboard box, or a wooden barrel, are authorized and need not conform to the requirements of part 178 of this subchapter.

N82 See § 173.306 of this subchapter for classification criteria for flammable aerosols.

N83 This material may not be transported in quantities of more than 11.5 kg (25.4 lbs) per package.

N84 The maximum quantity per package is 500 g (1.1 lbs.).

N85 Packagings certified at the Packing Group I performance level may not be used.

N86 UN pressure receptacles made of aluminum alloy are not authorized.

N87 The use of copper valves on UN pressure receptacles is prohibited.

N88 Any metal part of a UN pressure receptacle in contact with the contents may not contain more than 65% copper, with a tolerance of 1%.

N89 When steel UN pressure receptacles are used, only those bearing the ''H'' mark are authorized.

(6) *''R'' codes.* These provisions apply only to transportation by rail. [Reserved]

(7) *''T'' codes.* (i) These provisions apply to the transportation of hazardous materials in UN portable tanks. Portable tank instructions specify the requirements applicable to a portable tank when used for the transportation of a specific hazardous material. These requirements must be met in addition to the design and construction specifications in part 178 of this subchapter. Portable tank instructions T1 through T22 specify the applicable minimum test pressure, the minimum shell thickness (in reference steel), bottom opening requirements and pressure relief requirements. Liquefied compressed gases are assigned to portable tank instruction T50. Refrigerated liquefied gases that are authorized to be transported in portable tanks are specified in tank instruction T75.

(ii) The following table specifies the portable tank requirements applicable to ''T'' Codes T1 through T22. Column 1 specifies the ''T'' Code. Column 2 specifies the minimum test pressure, in bar (1 bar = 14.5 psig), at which the periodic hydrostatic testing required by § 180.605 of this subchapter must be conducted. Column 3 specifies the section reference for minimum shell thickness or, alternatively, the minimum shell thickness value. Column 4 specifies the applicability of § 178.275(g)(3) of this subchapter for the pressure relief devices. When the word ''Normal'' is indicated, § 178.275(g)(3) of this subchapter does not apply. Column 5 references the applicable requirements for bottom openings in part 178 of this subchapter or references ''Prohibited'' which means bottom openings are prohibited. The table follows:

TABLE OF PORTABLE TANK T CODES T1–T22

[Portable tank codes T1–T22 apply to liquid and solid hazardous materials of Classes 3 through 9 which are transported in portable tanks.]

Portable tank instruction (1)	Minimum test pressure (bar) (2)	Minimum shell thickness (in mm-reference steel) (*See* § 178.274(d)) (3)	Pressure-relief requirements (*See* § 178.275(g)) (4)	Bottom opening requirements (*See* § 178.275(d)) (5)
T1	1.5	§ 178.274(d)(2)	Normal	§ 178.275(d)(2)
T2	1.5	§ 178.274(d)(2)	Normal	§ 178.275(d)(3)
T3	2.65	§ 178.274(d)(2)	Normal	§ 178.275(d)(2)
T4	2.65	§ 178.274(d)(2)	Normal	§ 178.275(d)(3)
T5	2.65	§ 178.274(d)(2)	§ 178.275(g)(3)	Prohibited
T6	4	§ 178.274(d)(2)	Normal	§ 178.275(d)(2)
T7	4	§ 178.274(d)(2)	Normal	§ 178.275(d)(3)
T8	4	§ 178.274(d)(2)	Normal	Prohibited
T9	4	6 mm	Normal	Prohibited
T10	4	6 mm	§ 178.275(g)(3)	Prohibited
T11	6	§ 178.274(d)(2)	Normal	§ 178.275(d)(3)
T12	6	§ 178.274(d)(2)	§ 178.275(g)(3)	§ 178.275(d)(3)
T13	6	6 mm	Normal	Prohibited
T14	6	6 mm	§ 178.275(g)(3)	Prohibited
T15	10	§ 178.274(d)(2)	Normal	§ 178.275(d)(3)
T16	10	§ 178.274(d)(2)	§ 178.275(g)(3)	§ 178.275(d)(3)
T17	10	6 mm	Normal	§ 178.275(d)(3)
T18	10	6 mm	§ 178.275(g)(3)	§ 178.275(d)(3)

TABLE OF PORTABLE TANK T CODES T1–T22—Continued

[Portable tank codes T1–T22 apply to liquid and solid hazardous materials of Classes 3 through 9 which are transported in portable tanks.]

Portable tank instruction (1)	Minimum test pressure (bar) (2)	Minimum shell thickness (in mm-reference steel) (*See* § 178.274(d)) (3)	Pressure-relief requirements (*See* § 178.275(g)) (4)	Bottom opening requirements (*See* § 178.275(d)) (5)
T19	10	6 mm	§ 178.275(g)(3)	Prohibited
T20	10	8 mm	§ 178.275(g)(3)	Prohibited
T21	10	10 mm	Normal	Prohibited
T22	10	10 mm	§ 178.275(g)(3)	Prohibited

(iii) *T50.* When portable tank instruction T50 is referenced in Column (7) of the § 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of § 173.313 of this subchapter.

(iv) *T75.* When portable tank instruction T75 is referenced in Column (7) of the § 172.101 Table, the applicable refrigerated liquefied gases are authorized to be transported in portable tanks in accordance with the requirements of § 178.277 of this subchapter.

(v) *UN and IM portable tank codes/special provisions.* When a specific portable tank instruction is specified by a ''T'' Code in Column (7) of the § 172.101 Table for a specific hazardous material, a specification portable tank conforming to an alternative tank instruction may be used if:

(A) The alternative portable tank has a higher or equivalent test pressure (for example, 4 bar when 2.65 bar is specified);

(B) The alternative portable tank has greater or equivalent wall thickness (for example, 10 mm when 6 mm is specified);

(C) The alternative portable tank has a pressure relief device as specified in the ''T'' Code. If a frangible disc is required in series with the reclosing pressure relief device for the specified portable tank, the alternative portable tank must be fitted with a frangible disc in series with the reclosing pressure relief device; and

(D) With regard to bottom openings—

(*1*) When two effective means are specified, the alternative portable tank is fitted with bottom openings having two or three effective means of closure or no bottom openings; or

(*2*) When three effective means are specified, the portable tank has no bottom openings or three effective means of closure; or

(*3*) When no bottom openings are authorized, the alternative portable tank must not have bottom openings.

(vi) Except when an organic peroxide is authorized under § 173.225(g), if a hazardous material is not assigned a portable tank ''T'' Code, the hazardous material may not be transported in a portable tank unless approved by the Associate Administrator.

(8) *''TP'' codes.* (i) These provisions apply to the transportation of hazardous materials in IM and UN Specification portable tanks. Portable tank special provisions are assigned to certain hazardous materials to specify requirements that are in addition to those provided by the portable tank instructions or the requirements in part 178 of this subchapter. Portable tank special provisions are designated with the abbreviation TP (tank provision) and are assigned to specific hazardous materials in Column (7) of the § 172.101 Table.

(ii) The following is a list of the portable tank special provisions:

Code/Special Provisions

TP1 The maximum degree of filling must not exceed the degree of filling determined by the following:

$$\left(\text{Degree of filling} = \frac{97}{1+\alpha\left(t_r - t_f\right)}\right).$$

Where:

t_r is the maximum mean bulk temperature during transport, and t_f is the temperature in degrees celsius of the liquid during filling.

TP2 a. The maximum degree of filling must not exceed the degree of filling determined by the following:

$$\left(\text{Degree of filling} = \frac{95}{1+\alpha\left(t_r - t_f\right)}\right).$$

Where:

t_r is the maximum mean bulk temperature during transport,

t_f is the temperature in degrees celsius of the liquid during filling, and

α is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (t_f) and the maximum mean bulk temperature during transportation (t_r) both in degrees celsius.

b. For liquids transported under ambient conditions α may be calculated using the formula:

$$\alpha = \frac{d_{15} - d_{50}}{35\, d_{50}}$$

Where:

d_{15} and d_{50} are the densities (in units of mass per unit volume) of the liquid at 15 °C (59 °F) and 50 °C (122 °F), respectively.

TP3 The maximum degree of filling (in %) for solids transported above their melting points and for elevated temperature liquids shall be determined by the following:

$$\left(\text{Degree of filling} = 95\frac{d_r}{d_f}\right).$$

Where: d_f and d_r are the mean densities of the liquid at the mean temperature of the liquid during filling and the maximum mean bulk temperature during transport respectively.

TP4 The maximum degree of filling for portable tanks must not exceed 90%.

TP5 For a portable tank used for the transport of flammable refrigerated liquefied gases or refrigerated liquefied oxygen, the maximum rate at which the portable tank may be filled must not exceed the liquid flow capacity of the primary pressure relief system rated at a pressure not exceeding 120 percent of the portable tank's design pressure. For portable tanks used for the transport of refrigerated liquefied helium and refrigerated liquefied atmospheric gas (except oxygen), the maximum rate at which the tank is filled must not exceed the liquid flow capacity of the pressure relief device rated at 130 percent of the portable tank's design pressure. Except for a portable tank containing refrigerated liquefied helium, a portable tank shall have an outage of at least two percent below the inlet of the pressure relief device or pressure control valve, under conditions of incipient opening, with the portable tank in a level attitude. No outage is required for helium.

TP6 The tank must be equipped with a pressure release device which prevent a tank from bursting under fire engulfment conditions (the conditions prescribed in CGA pamphlet S–1.2 (see § 171.7 of this subchapter) or alternative conditions approved by the Associate Administrator may be used to consider the fire engulfment condition), taking into account the properties of the hazardous material to be transported.

TP7 The vapor space must be purged of air by nitrogen or other means.

TP8 A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 °C (32 °F).

TP9 A hazardous material assigned to special provision TP9 in Column (7) of the § 172.101 Table may only be transported in a portable tank if approved by the Associate Administrator.

TP10 The portable tank must be fitted with a lead lining at least 5 mm (0.2 inches) thick. The lead lining must be tested annually to ensure that it is intact and functional. Another suitable lining material may be used if approved by the Associate Administrator.

TP12 This material is considered highly corrosive to steel.

TP13 Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.

TP16 The portable tank must be protected against over and under pressurization which may be experienced during transportation. The means of protection must be approved by the approval agency designated to approve the portable tank in accordance with the procedures in part 107, subpart E, of this subchapter. The pressure relief device must be preceded by a frangible disk in accordance with the requirements in § 178.275(g)(3) of this subchapter to prevent crystallization of the product in the pressure relief device.

TP17 Only inorganic non-combustible materials may be used for thermal insulation of the tank.

TP18 The temperature of this material must be maintained between 18 °C (64.4 °F) and 40 °C (104 °F) while in transportation. Portable tanks containing solidified methacrylic acid must not be reheated during transportation.

TP19 The calculated wall thickness must be increased by 3 mm at the time of construction. Wall thickness must be verified ultrasonically at intervals midway between periodic hydraulic tests (every 2.5 years). The portable tank must not be used if the wall thickness is less than that prescribed by the applicable T code in Column (7) of the Table for this material.

TP20 This hazardous material must only be transported in insulated tanks under a nitrogen blanket.

TP21 The wall thickness must not be less than 8 mm. Portable tanks must be hydraulically tested and internally inspected at intervals not exceeding 2.5 years.

TP22 Lubricants for portable tank fittings (for example, gaskets, shut-off valves, flanges) must be oxygen compatible.

TP24 The portable tank may be fitted with a device to prevent the build up of excess pressure due to the slow decomposition of the hazardous material being transported. The device must be in the vapor space when the tank is filled under maximum filling conditions. This device must also prevent an unacceptable amount of leakage of liquid in the case of overturning.

TP25 Sulphur trioxide 99.95% pure and above may be transported in tanks without an inhibitor provided that it is maintained at a temperature equal to or above 32.5 °C (90.5 °F).

TP26 The heating device must be exterior to the shell. For UN 3176, this requirement only applies when the hazardous material reacts dangerously with water.

TP27 A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in §178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

TP28 A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in §178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

TP29 A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in §178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

TP30 This hazardous material may only be transported in insulated tanks.

TP31 This hazardous material may only be transported in tanks in the solid state.

TP32 Portable tanks may be used subject to the following conditions:

a. Each portable tank constructed of metal must be fitted with a pressure-relief device consisting of a reclosing spring loaded type, a frangible disc or a fusible element. The set to discharge for the spring loaded pressure relief device and the burst pressure for the frangible disc, as applicable, must not be greater than 2.65 bar for portable tanks with minimum test pressures greater than 4 bar;

b. The suitability for transport in tanks must be demonstrated using test 8(d) in Test Series 8 (see UN Manual of Tests and Criteria, Part 1, Sub-section 18.7) (IBR, see §171.7 of this subchapter) or an alternative means approved by the Associate Administrator.

TP33 The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

TP37 IM portable tanks are only authorized for the shipment of hydrogen peroxide solutions in water containing 72% or less hydrogen peroxide by weight. Pressure relief devices shall be designed to prevent the entry of foreign matter, the leakage of liquid and the development of any dangerous excess pressure. In addition, the portable tank must be designed so that internal surfaces may be effectively cleaned and passivated. Each tank must be equipped with pressure relief devices conforming to the following requirements:

Concentration of hydrogen per peroxide solution	Total [1]
52% or less	11
Over 52%, but not greater than 60%	22
Over 60%, but not greater than 72%	32

[1] Total venting capacity in standard cubic feet hour (S.C.F.H.) per pound of hydrogen peroxide solution.

TP38 Each portable tank must be insulated with an insulating material so that the overall thermal conductance at 15.5 °C (60 °F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials may not promote corrosion to steel when wet.

TP44 Each portable tank must be made of stainless steel, except that steel other than stainless steel may be used in accordance with the provisions of §173.24b(b) of this subchapter. Thickness of stainless steel for tank shell and heads must be the greater of 7.62 mm (0.300 inch) or the thickness required for a portable tank with a design pressure at least equal to 1.5 times the vapor pressure of the hazardous material at 46 °C (115 °F).

TP45 Each portable tank must be made of stainless steel, except that steel other than stainless steel may be used in accordance with the provisions of 173.24b(b) of this subchapter. Thickness of stainless steel for portable tank shells and heads must be the greater of 6.35 mm (0.250 inch) or the thickness required for a portable tank with a design pressure at least equal to 1.3 times the vapor pressure of the hazardous material at 46 °C (115 °F).

TP46 Portable tanks in sodium metal service are not required to be hydrostatically retested.

(9) *''W'' codes.* These provisions apply only to transportation by water:

Code/Special Provisions

W7 Vessel stowage category for uranyl nitrate hexahydrate solution is ''D'' as defined in § 172.101(k)(4).

W8 Vessel stowage category for pyrophoric thorium metal or pyrophoric uranium metal is ''D'' as defined in § 172.101(k)(4).

W9 When offered for transportation by water, the following Specification packagings are not authorized unless approved by the Associate Administrator: woven plastic bags, plastic film bags, textile bags, paper bags, IBCs and bulk packagings.

W41 When offered for transportation by water, this material must be packaged in bales and be securely and tightly bound with rope, wire or similar means.

[Amdt. 172–123, 55 FR 52582, Dec. 21, 1990]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 172.102, see the List of CFR Sections Affected which appears in the Finding Aids section of the printed volume and on GPO Access.

EFFECTIVE DATE NOTES: 1. At 72 FR 4455, Jan. 31, 2007, § 172.102 was amended by amending (c)(1) and (2) by removing Special Provisions ''60'' and Special Provisions ''A51'' and ''A52'', effective Oct. 1, 2007.

2. At 72 FR 55092, Sept 28, 2007, effectiveness of the amendment at 72 FR 4455, Jan. 31, 2007 was delayed until Oct. 1, 2008.

Subpart C—Shipping Papers

§ 172.200 Applicability.

(a) *Description of hazardous materials required.* Except as otherwise provided in this subpart, each person who offers a hazardous material for transportation shall describe the hazardous material on the shipping paper in the manner required by this subpart.

(b) This subpart does not apply to any material, other than a hazardous substance, hazardous waste or marine pollutant, that is—

(1) Identified by the letter ''A'' in column 1 of the § 172.101 table, except when the material is offered or intended for transportation by air; or

(2) Identified by the letter ''W'' in column 1 of the § 172.101 table, except when the material is offered or intended for transportation by water; or

(3) An ORM-D, except when the material is offered or intended for transportation by air.

(4) Category B infectious substances prepared in accordance with § 173.199.

[Amdt. 172–29A, 41 FR 40677, Sept. 20, 1976, as amended by Amdt. 172–58, 45 FR 34697, May 22, 1980; Amdt. 172–74, 47 FR 43065, Sept. 30, 1982; Amdt. 172–112, 53 FR 17160, May 13, 1988; Amdt. 172–127, 57 FR 52938, Nov. 5, 1992; 71 FR 32258, June 2, 2006]

§ 172.201 Preparation and retention of shipping papers.

(a) *Contents.* When a description of hazardous material is required to be included on a shipping paper, that description must conform to the following requirements:

(1) When a hazardous material and a material not subject to the requirements of this subchapter are described on the same shipping paper, the hazardous material description entries required by § 172.202 and those additional entries that may be required by § 172.203:

(i) Must be entered first, or

(ii) Must be entered in a color that clearly contrasts with any description on the shipping paper of a material not subject to the requirements of this subchapter, except that a description on a reproduction of a shipping paper may be highlighted, rather than printed, in a contrasting color (the provisions of this paragraph apply only to the basic description required by § 172.202(a)(1), (2), (3), and (4)), or

(iii) Must be identified by the entry of an ''X'' placed before the proper shipping name in a column captioned ''HM.'' (The ''X'' may be replaced by ''RQ,'' if appropriate.)

(2) The required shipping description on a shipping paper and all copies thereof used for transportation purposes, must be legible and printed (manually or mechanically) in English.