

☆ ☆ ☆ ☆ CODE  
OF FEDERAL  
REGULATIONS

Title 46—Shipping

Parts 146 to 149

(Revised as of January 1, 1966)

# CODE OF FEDERAL REGULATIONS



## TITLE 46 Parts 146 to 149 Revised as of January 1, 1966

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CONTAINING A CODIFICATION OF DOCUMENTS OF GENERAL APPLICABILITY AND  
FUTURE EFFECT AS OF JANUARY 1, 1966

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**As of January 1, 1966  
Title 46, Parts 146 to 149,  
Revised as of January 1, 1965  
Replaced by this Volume**

**U.S. GOVERNMENT PRINTING OFFICE  
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# Explanation

This book contains the rules and regulations constituting Title 46, **Parts 146 to 149**, revised as of January 1, 1966. It replaces the volume entitled "Title 46—Shipping, Parts 146 to 149, Revised as of January 1, 1965," and becomes an integral part of the Code of Federal Regulations.

The text in this revision is derived from the latest text of the rules and regulations, general and permanent in nature, duly promulgated in the Federal Register on or before December 31, 1965. Source materials from which the text is derived are cited with the text and should be consulted to determine the effective date of any given provision. All dates appearing in the source citations are dates of publication in the Federal Register and should not be construed as effective dates.

Current regulatory material appearing in the daily issues of the Federal Register follows the numbering system used herein and serves as a daily supplement hereto. This book contains the following finding aids: a list of current CFR volumes; a list of superseded CFR volumes; a table of CFR titles and chapters; an alphabetical list of CFR subtitles and chapters; and a list of sections affected which furnishes Federal Register citations to all changes in this book beginning January 1, 1964, including changes which are no longer in effect.

A compilation of the list of sections affected for the entire Code of Federal Regulations from January 1, 1949, through December 31, 1963, is published in a separate volume entitled "List of Sections Affected, 1949-1963."

A General Explanation of the Code of Federal Regulations appears in the volume containing Titles 1-3, and in the General Index volume.

Section 146.04-5 of this title contains an alphabetical listing of the dangerous substances regulated herein, and gives their classification. The following table indicates the subpart applicable to each particular classification:

<i>Subpart</i>	<i>Subpart</i>
146.20—Explosives	146.24—Compressed gases
146.21—Inflammable liquids	146.25—Poisonous articles
146.22—Inflammable solids and oxidizing materials	146.26—Combustible liquids
146.23—Corrosive liquids	146.27—Hazardous articles

This book is published pursuant to Part 30 of the regulations of the Administrative Committee of the Federal Register as revised December 7, 1965 (30 F.R. 15131; 1 CFR Part 30), under the authority contained in section 11 of the Federal Register Act, as amended (67 Stat. 388, as amended; 44 U.S.C. 311). The contents of the Federal Register and the Code of Federal Regulations are by law prima facie evidence of the text of the original documents and are required to be judicially noticed (49 Stat. 502, 67 Stat. 388; 44 U.S.C. 307, 311). The approved citation of the Code is "CFR". Thus the citation "46 CFR 146.01-1" refers to section 146.01-1 of this Title.

DAVID C. EBERHART

January 3, 1966.

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*Cite this Code* CFR  
*thus:* 46 CFR 146.01-1

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# Title 46—Shipping

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CHAPTER 1—Coast Guard, Department of the Treasury (continued)

*Part*  
146

# CHAPTER I—COAST GUARD

## DEPARTMENT OF THE TREASURY

(This book contains Parts 146 to 149)

### SUBCHAPTER N—DANGEROUS CARGOES

*Part*

- 146 Transportation or storage of explosives or other dangerous articles or substances, and combustible liquids on board vessels.
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**AUTHORITY:** The provisions of this Part 146 issued under R.S. 4405, as amended, 4462, as amended, 4472, as amended, sec. 3, 68 Stat. 675; 46 U.S.C. 375, 416, 170; 50 U.S.C. 198, E.O. 10402, 17 F.R. 9917, 3 CFR 1952 Supp., except as otherwise noted.

**CROSS REFERENCE:** For regulations of the Interstate Commerce Commission relating to the transportation of explosives and other dangerous articles, see 49 CFR Parts 71-78.

#### Subpart 146.01—Preface

**SOURCE:** The provisions of this Subpart 146.01 contained in Order 74, 6 F.R. 254, Jan. 11, 1941, unless otherwise noted.

#### § 146.01-1 Purpose of regulations.

The purpose of the regulations in this subchapter is to promote safety in the handling, stowage, storage and transport-

tation of explosives or other dangerous articles or substances, and combustible liquids, as defined herein, on board vessels on any navigable waters within the limits of the jurisdiction of the United States including its territories and possessions excepting only the Panama Canal Zone and to make more effective the provisions of the International Convention for the Safety of Life at Sea, 1948, relative to the carriage of dangerous goods.

[Order 74, 6 F.R. 254, Jan. 11, 1941, as amended by CGFR 47-35, 12 F.R. 4184, June 27, 1947; CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

#### § 146.01-2 Source of regulations.

The Commandant of the Coast Guard shall by regulation define, describe, name and classify all explosives or other dangerous articles or substances, and combustible liquids and shall establish such regulations as may be necessary to make effective the purpose intended.

[Order 74, 6 F.R. 254, Jan. 11, 1941, as amended by CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.01-3 Plan of regulations.

Regulations setting forth general requirements covering the transportation of explosives or other dangerous articles or substances, and combustible liquids will be found in §§ 146.01-1 to 146.10-50. Regulations setting forth detailed requirements applicable to individual substances will be found under their particular classification in §§ 146.20-1 to 146.27-100.

#### § 146.01-4 Classifications.

Explosives or other dangerous articles or substances, and combustible liquids are classified in the regulations in this part according to their principal characteristics and properties as follows:

##### Explosives:

Class A—Dangerous explosives.

Class B—Less dangerous explosives.

Class C—Relatively safe explosives.

##### Inflammable liquids.

Inflammable solids and oxidizing materials.

Corrosive liquids.

Compressed gases.

##### Poisons:

Extremely dangerous poison, Class A.

Less dangerous poison, Class B.

Tear gases or irritating substances, Class C.

Radioactive materials, Class D.

##### Combustible liquids.

##### Hazardous articles.

[CGFR 52-8, 17 F.R. 6461, July 17, 1952]

#### § 146.01-5 Changes in regulations.

Changes in regulations usually result from the development of new information, altered conditions, improvement in manufacture, or modernized commercial practices. Proposals for changes will be considered by the Commandant of the Coast Guard on his own motion or upon a request submitted by any carrier interest, by industry, or other interested party.

[Order 74, 6 F.R. 254, Jan. 11, 1941, as amended by CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.01-6 Provision for notice and public hearing.

Additions, alterations, amendments or repeals of any of the regulations in this subchapter except in an emergency, shall be published and public hearings with respect thereto shall be held on such notice as the Commandant of the Coast Guard deems advisable under the circumstances. Any additions, alterations, amendments or repeals shall, unless a shorter time is authorized by the Commandant of the Coast Guard take effect 90 days after their promulgation.

[Order 74, 6 F.R. 254, Jan. 11, 1941, as amended by CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.01-7 Inflammable or combustible liquids in bulk.

Nothing in the regulations in this part shall be construed as affecting the transportation of inflammable or combustible liquids in bulk, such transportation being governed by the regulations promulgated under the provisions of section 4417a of the Revised Statutes, as amended (49 Stat. 1889, sec. 3, 54 Stat. 1028; 46 U.S.C. 391a).

#### § 146.01-8 Effective date of regulations.

The regulations in this subchapter became effective on and after April 9, 1941. [CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

#### § 146.01-9 Supersedes existing rulings.

All rulings in existence on the effective date of the regulations in this part regarding transportation, packing, marking, labeling or storage, as cargo, of explosives or other dangerous articles or substances, and combustible liquids, on board vessels as promulgated by the office of the Director of the Bureau of Marine Inspection and Navigation are superseded by the regulations in this part; except nothing in this provision shall be construed as affecting the transportation of inflammable or combustible liquids in

bulk under the provisions of section 4417a of the Revised Statutes, as amended (48 U. S. C. 391a).

#### § 146.01-10 Supersedes existing regulations.

General rules and regulations in existence on the effective date of the regulations in this part (Apr. 9, 1941) regarding the transportation, packing or stowage, as cargo, on board passenger vessels of hay, straw, baled cotton, baled hemp, or other inflammable material, and refined petroleum having a flash-point of not less than 110° F., lubricating oils, kerosene or other illuminating oils as promulgated by the Board of Super-vising Inspectors of the Bureau of Marine Inspection and Navigation are super-seded by the regulations in this part.

#### § 146.01-11 Other requirements under title 52 of the Revised Statutes.

Nothing contained in the regulations in this subchapter shall be construed as relieving any vessel subject to the provisions of the regulations in this part from any other of the requirements of title 52 (secs. 4399 to 4500, inclusive) of the Revised Statutes of acts amendatory or supplementary thereto and regulations thereunder applicable to such vessel, which are not inconsistent herewith.

#### § 146.01-12 Local regulations.

Nothing in the regulations in this subchapter shall be construed as preventing the enforcement of reasonable local regulations, now in effect or hereafter adopted, when such regulations are not inconsistent or in conflict with the provisions of the regulations in this part.

#### § 146.01-13 Penalties.

(a) Whoever shall knowingly violate any of the provisions of R.S. 4472, as amended, or any of the regulations established thereunder shall be subject to a penalty of not more than \$2,000 for each violation. In the case of any such violation on the part of the owner, charterer, agent, master, or person in charge of the vessel, such vessel shall be liable for the penalty and may be seized and proceeded against by way of libel in the district court of the United States in any district in which such vessel may be found.

(b) When the death or bodily injury of any person results from the violation of R.S. 4472, as amended, or any regulations made in pursuance thereof, the

person or persons who shall have knowingly violated or caused to be violated such provisions or regulations shall be fined not more than \$10,000 or imprisoned not more than 10 years, or both.

[CGFR 63-19, 28 F.R. 5379, May 30, 1963]

### Subpart 146.02—General Regulations

#### § 146.02-1 Scope of regulations.

(a) The regulations in this part define explosives or other dangerous articles or substances, and combustible liquids for purposes of safety in transportation or storage on board vessels;

(b) Set forth the requirements that shall be observed in the preparation and packing of explosives or other dangerous articles or substances, and combustible liquids for shipment or storage on board vessels;

(c) Set forth the descriptive name, shipping name, requirements relative to certification, containers, marking, labeling, information required on bills of lading or other shipping papers, manifests or cargo stowage plans;

(d) Set forth the provisions under which permitted explosives or other dangerous articles or substances, and combustible liquids within the scope of the definitions given herein, may be accepted, handled, stored, stowed, or transported on board vessels, and with respect to rejection and report of faulty containers and the disposition of any explosives or other dangerous articles or substances, and combustible liquids found to be in an unsafe condition when on board a vessel;

(e) Establish such other requirements as may be necessary to make effective the purposes of R. S. 4472, as amended. [Order 74, 6 F.R. 256, Jan. 11, 1941]

#### § 146.02-2 Application to vessels.

The regulations in this subchapter apply to all vessels, domestic or foreign, regardless of character, tonnage, size, service and whether self-propelled or not, whether arriving or departing, or under way, moored, anchored, aground, or while in drydock to the extent and in the manner indicated herein.

(a) The regulations in this part shall not apply to any public vessel which is not engaged in commercial service.

(b) The regulations on this part shall not apply to any vessel subject to the provisions of R.S. 4417a, as amended, which is constructed or converted for the principal purpose of carrying inflammable or combustible liquid cargo in bulk

in its own tanks, except such vessel shall be subject to the provisions of R.S. 4472, as amended, with respect to explosives prohibited to be transported, stored, or stowed on board any vessel.

(c) Regulations with respect to explosives prohibited by subsection 3, of R.S. 4472, as amended, apply to all vessels.

(d) Regulations with respect to the transportation, storage, or stowage of high explosives on board passenger vessels apply to all vessels defined as "Passenger Vessels" in § 146.03-36.

(e) Regulations with respect to the transportation, storage or stowage of high explosives on board vessels, other than passenger-carrying vessels, apply to all vessels defined as "Barges" or "Cargo Vessels" in § 146.03-36.

(f) Regulations with respect to the transportation, storage or stowage of explosives (other than high explosives) or other dangerous articles or substances apply to all vessels, except vessels specifically exempted from such regulations by the provisions of R.S. 4472, as amended, or vessels that are, or may be, specifically exempted by the regulations in this part. Vessels specifically exempted by R.S. 4472, as amended, are:

(1) Vessels not exceeding fifteen (15) gross tons when not engaged in carrying passengers for hire;

(2) Vessels used exclusively for pleasure;

(3) Vessels, not exceeding five hundred (500) gross tons while engaged in the fisheries;

(4) Tugs or towing vessels, except as to fire prevention and extinguishing requirements provided for by subsection 6 (b) (4) of R.S. 4472, as amended;

(5) Cable vessels, dredges, elevator vessels, fireboats, ice-breakers, pile drivers, pilot boats, welding vessels, salvage and wrecking vessels.

(g) Inflammable or combustible liquid cargo in bulk is also exempt from the regulations in this part: *Provided, however*, That the handling and stowage of such liquid cargo in bulk, on board vessels to which the regulations in this part may apply, shall be subjected to the provisions of section 4417a of the Revised Statutes, as amended.

(h) Regulations with respect to the transportation, storage, or stowage of combustible liquids packed in barrels, drums, or other packages apply only to passenger vessels.

(i) In addition to complying with the requirements of this part, foreign vessels

of novel design or construction or whose operation involves potential unusual risks shall be subject to inspection to the extent necessary to safeguard life and property in United States' ports. For details concerning inspection see § 2.01-13 of Subchapter A (Procedures Applicable to the Public), § 30.01-5 of Subchapter D (Tank Vessels), § 70.05-3 of Subchapter H (Passenger Vessels), and § 90.05-1 of Subchapter I (Cargo and Miscellaneous Vessels) of this chapter.

[Order 74, 6 F.R. 256, Jan. 11, 1941, as amended, CGFR 62-17, 27 F.R. 9043, Sept. 11, 1962, CGFR 64-20, 29 F.R. 6788, May 23, 1964]

#### § 146.02-3 Application to shippers.

Regulations with respect to definitions, descriptive name, shipping name, packing, marking, authorized containers, labeling and certification of shipments of explosives or other dangerous articles or substances, and combustible liquids, apply to all shippers offering such articles or substances for transportation or storage on board vessels to which the regulations in this part apply.

[Order 74, 6 F.R. 256, Jan. 11, 1941, as amended, CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.02-4 Application to others.

The provisions of the regulations in this part, insofar as applicable to them respectively, are binding upon owners, charterers, agents, masters, or persons in charge of vessels subject to the regulations in this part and upon all other persons transporting, carrying, conveying, handling, storing or stowing on board such vessels any explosives or other dangerous articles or substances, and combustible liquids.

[Order 74, 6 F.R. 256, Jan. 11, 1941, as amended, CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.02-5 Compliance.

The applicable provisions of the regulations in this part shall be observed by:

(a) All vessels, domestic or foreign, subject to the regulations in this part, and the owners, charterers, agents, masters or persons in charge of such vessels;

(b) Railway or highway carriers and their operators, owners, agents or representatives when vehicles operated by such carriers and loaded with explosives or other dangerous articles or substances, and combustible liquids are offered for transportation or enter on board a vessel;

(c) All shippers, their agents or other persons offering explosives or other dan-

gerous articles or substances, and combustible liquids for transportation on board vessels;

(d) All persons engaged in the acceptance, handling, stowage, storage or transportation of explosives or other dangerous articles or substances, and combustible liquids on board vessels;

(e) All shippers or carriers of explosives or other dangerous articles or substances, and combustible liquids shall instruct their employees relative to the provisions of the regulations in this part. [Order 74, 6 F.R. 256, Jan. 11, 1941, as amended, CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.02-6 Enforcement.

(a) The provisions of R.S. 4472, as amended, and the regulations in this subchapter shall be enforced by the U.S. Coast Guard of the Department of the Treasury. Enforcement officers may at any time and at any place within the jurisdiction of the United States board any vessel for the purpose of enforcing the provisions of the regulations in this subchapter.

(b) Any collector of customs may, when possessing knowledge that a vessel is violating any provisions of the statute or regulations established thereunder, by written order served on the master, person in charge of such vessel, or the owner or charterer thereof, or the agent of the owner or charterer, detain such vessel until such time as the provisions of the statute and the regulations in this subchapter have been complied with. The master, person in charge or owner or charterer or the agent of the owner or charterer of a vessel so detained may, within 5 days, appeal to the Commandant of the Coast Guard who may, after investigation, affirm, set aside, or modify the order of the collector.

[CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.02-6a Assignment and certification.

(a) The National Cargo Bureau, Inc., is authorized to assist the United States Coast Guard in administering the provisions of the Dangerous Cargo Act (R.S. 4472, as amended, 46 U.S.C. 170) and the regulations in this subchapter with respect to:

(1) Inspection of vessels for suitability for loading dangerous cargo;

(2) Examination of stowage of dangerous cargo;

(3) Making recommendations as to stowage requirements of dangerous cargo; and

(4) Issuance of certificates of loading setting forth that the stowage of dangerous cargo is in accordance with the regulations in this subchapter.

(b) Certificates of loading of the National Cargo Bureau, Inc., may be accepted as prima facie evidence of compliance with the Dangerous Cargo Act (R.S. 4472, as amended, 46 U.S.C. 170) and the regulations in this subchapter.

[CGFR 52-50, 17 F.R. 9183, Oct. 17, 1952]

#### § 146.02-7 Military or naval forces.

The provisions of the regulations in this part shall not be construed to prevent the transportation of military or naval forces with their accompanying munitions of war and stores.

[Order 74, 6 F.R. 257, Jan. 11, 1941]

#### § 146.02-8 U.S. Government shipments.

(a) Shipments of explosives or other dangerous articles or substances offered by or consigned to the Departments of the Army, Navy, or Air Force of the United States Government shall be packed, including limitations of weight, in accordance with the Interstate Commerce Commission regulations for the transportation of explosives or other dangerous articles in effect at the time of shipment, or in containers of equal or greater strength and efficiency as required by the regulations of these Departments.

(b) Shipments of radioactive materials, made by the Atomic Energy Commission, or under its direction or supervision, which are escorted by personnel specially designated by the Atomic Energy Commission, are exempt from the regulations in this part.

[CGFR 52-8, 17 F.R. 6461, July 17, 1952]

#### § 146.02-9 Canadian shipments.

Shipments of explosives (except commercial Class A explosives) or other dangerous articles or combustible liquids as defined in this subchapter, which are packed, marked and labeled in conformity with the regulations of the Board of Transport Commissioners for Canada, may be accepted and transported on board vessels within the navigable waters of the United States: *Provided*, That their acceptance and stowage on board the vessel is in accordance with the regulations in this part for the substances



involved, and: *Provided further*, That the bill of lading or other shipping paper carries the certifying statement of the shipper that the goods are packed, marked and labeled in accordance with the regulations of the Board of Transport Commissioners for Canada.

[CGFR 53-26, 18 P.R. 5205, Sept. 1, 1953]

§ 146.02-10 Export shipments.

(a) Export shipments of commercial Class A explosives and radioactive materials, Groups I, II or III, regardless of whether in interstate transportation prior to delivery to the vessel, shall be packed, marked, labeled or otherwise in conformity with the Interstate Commerce Commission requirements for the transportation of explosives or other dangerous articles in effect at the time of shipment.

(b) Export shipments of explosives or other dangerous articles or combustible liquids (except commercial Class A explosives and radioactive materials, Groups I, II and III) may be accepted for transportation when packed, marked, labeled and described in accordance with the regulations of the country of destination. The bill of lading or other shipping paper shall identify such shipments by the shipping name shown in the regulations in this part for the particular substance, and also shall certify that the packing, marking and labeling is in accordance with the foreign regulations and identify by title or otherwise such foreign regulations. Markings on export packages may be in the language of the country of destination. Labels as prescribed in the regulations in this part shall be affixed or printed or stamped upon such export packages when offered for transportation in lots of one hundred (100) or less packages. Stowage on board a vessel shall be in accordance with the regulations in this part as applicable to the particular character of vessel.

[CGFR 59-14, 24 P.R. 5267, June 30, 1959]

§ 146.02-11 Import shipments.

(a) Import shipments of commercial Class A explosives and radioactive materials, Groups I, II, and III, regardless of whether destined upon arrival at domestic ports for further transportation or not shall be packed, marked, labeled, or otherwise in conformity with the Interstate Commerce Commission requirements for the transportation of ex-

plosives or other dangerous articles in effect at the time of shipment.

(b) Import shipments of explosives or other dangerous articles (except commercial Class A explosives and radioactive materials, Groups I, II, and III) destined upon arrival at domestic ports for further transportation, in original containers, by common carrier by rail, or by common or contract carrier by motor vehicle, shall comply with the Interstate Commerce Commission regulations for the transportation of explosives or other dangerous articles in effect at the time of shipment. The importer shall furnish with the order to the foreign shipper, and also to the forwarding agent at the port of entry, full and complete information as to packing, marking, labeling and other requirements as prescribed by the Interstate Commerce Commission regulations (see § 146.05-14).

(c) Import shipments of explosives or other dangerous articles or combustible liquids (except commercial Class A explosives and radioactive materials, Groups I, II, and III) accepted for transportation in a foreign port in outside metal or wooden barrels or drums not exceeding 110 gallons capacity, wooden boxes not exceeding 300 pounds weight of box and contents, or fiberboard boxes not exceeding 65 pounds weight of box and contents, which upon arrival at domestic ports are not destined for transportation in these original import containers by common carrier by rail, or common or contract carrier by motor vehicle, may be accepted on board vessels provided the shipper certified upon the bill of lading or other shipping paper that the container is in conformity with the regulations of the country of origin. If the country of origin has no regulations governing the transportation by vessel of the explosives and dangerous substances involved, the shipper shall certify that the container is so constructed as to maintain its complete integrity under all conditions likely to be encountered during transportation. The master of the vessel, before accepting such import shipments, shall satisfy himself that the containers are sufficiently strong to stand, without rupture or leakage of contents, all risks ordinarily incident to transportation. Stowage of import shipments on board vessels shall be in accordance with the provisions of the regulations in this part.

(d) Shipments of explosives or other dangerous articles or combustible liquids (except commercial Class A explosives and radioactive materials, Groups I, II, and III) accepted for transportation in a foreign port which upon arrival at domestic ports are destined for transshipment on vessels subject to the regulations of this part, may be accepted on such vessels provided the bill of lading or other shipping paper identifies the shipment by the shipping name shown in the regulations in this part for the particular substance and provided further that the dangerous cargo is certified to be described as above and to be packaged, marked and labeled in accordance with the regulations or the regulations of the country of origin of the cargo (provided such regulations are compatible with minimum safety requirements of the regulations in this part). The connecting carrier, before accepting such transshipments, shall satisfy himself that the provisions of this paragraph are complied with. The master of the vessel shall satisfy himself that the containers are sufficiently strong to withstand, without rupture or leakage of contents, all risks incident to transportation. Stowage on board vessels shall be in accordance with the provisions of the regulations in this part.

[CGFR 58-14, 24 F.R. 5287, June 30, 1959]

#### § 146.02-12 Inspection of cargo.

(a) On all vessels, other than barges and magazine vessels storing explosives, an inspection of cargoes of explosives or other dangerous articles or substances shall be ordered by the master of the vessel during a voyage to insure that such cargo is carried with safety and that no damage caused by shifting cargo, spontaneous heating, leaking or sifting of containers or from other causes has been sustained since loading and stowage. On such vessels that have dangerous cargo stowed on board for a period exceeding twenty-four (24) hours temperature readings shall be taken at proper intervals and such temperatures recorded and retained for one year as a record for each voyage. When any cargo is discovered to be in a dangerous condition from leakage, sifting, heating, wetting or other causes, such condition shall be corrected in such manner as the judgment of the master may dictate. All unusual circumstances divulged during inspection of dangerous cargo and any

action taken as a result thereof shall be a subject for log entry.

(b) On all barges an inspection of the cargo shall be made by the person responsible to the owner, charterer or agent who is in charge of loading and stowing the cargo on board the barge after the stowage has been completed to insure that such stowage has been properly accomplished and that there are no visible signs of damage to any of the containers or apparent evidence of heating, leaking or sifting of containers or escape of any of the contents of the containers.

(c) On all magazine vessels storing explosives an inspection of the cargo shall be made by the person in charge of the magazine vessel after the stowage has been completed to insure that such stowage has been properly accomplished and that there are no visible signs of damage to any of the containers or apparent evidence of heating, leaking or sifting of containers or escape of any of the contents of the containers.

(d) When inspecting cargoes of dangerous articles capable of evolving inflammable vapors as required in paragraphs (a), (b) and (c) of this section any artificial means of illumination shall be of a vapor proof type.

[Order 74, 6 F.R. 257, Jan. 11, 1941, as amended by CGFR 58-9, 23 F.R. 4839, June 28, 1958]

#### § 146.02-13 Report fires.

(a) The master of any ocean-going vessel having on board explosives or other dangerous articles or substances as cargo and about to enter a port of the United States shall make or cause to be made an inspection immediately prior to entering such port. If the inspection discloses the presence of fire or any other hazardous condition, such condition shall immediately be reported to the District Commander of the United States Coast Guard or his authorized representative having supervision over the port or place to which the vessel is bound and the master or person in charge of such vessel shall comply with the instructions given by the District Commander or his authorized representative as to the procedure to be followed in entering the port or place.

(b) In the event of wreck, fire, or other disaster involving radioactive materials, other than low activity ores, or that part of a vessel where radioactive material, other than low activity ores, is stowed, safety precautions shall be observed in

accordance with §§ 146.25-1 to 146.25-400, inclusive, pertaining to the care following leakage or sifting of radioactive materials.

[CGFR 52-8, 17 F.R. 6461, July 17, 1952]

#### § 146.02-14 Damaged containers.

(a) Any outside container that is sufficiently damaged as to permit the escape of the contents therein, or shows marks of having leaked, or the securing means give evidence of failure to properly contain the package, shall not be accepted on board any vessel for transportation or stowage, nor shall such damaged containers be on board any vessel entering the navigable waters of the United States except in accordance with the provisions of § 146.02-15.

(b) Any damaged outside containers, as described in paragraph (a) of this section, except those containing radioactive materials, other than low activity ores, when restored or repaired to the satisfaction of the owner or master of the vessel may be accepted. Special attention shall be given to containers of substances that are required by the regulations to be shipped "wet" to be certain that any escaped liquid is replaced before the restored container is accepted.

(c) Damaged, leaking or insecure outside containers in which radioactive materials, other than low activity ores, are packed shall be handled in accordance with the safety precautions set forth in §§ 146.25-1 to 146.25-400, inclusive, pertaining to the care following leakage or sifting of radioactive materials. This provision shall be complied with by all vessels to which the regulations in this part apply when upon the navigable waters of the United States.

(d) Damaged, leaking or insecure outside containers which it is not feasible to restore shall be refused and promptly reported by the owner or master of the vessel to the nearest District Commander of the United States Coast Guard or his authorized representative. This provision shall be complied with by all vessels to which the regulations in this part apply when upon the navigable waters of the United States.

(e) Containers of a particular type that frequently show damage, leakage or other failure shall also be reported to the District Commander of the United States Coast Guard or his authorized representative for the district in which

the cargo was laden. Such information as will assist in correcting faults of such containers should be included in this report.

[CGFR 52-8, 17 F.R. 6461, July 17, 1952]

#### § 146.02-15 Emergency shipments.

(a) In event of a casualty occurring to or on board a vessel involving explosives or other dangerous articles or substances on board the vessel as cargo, the master or person in charge of the vessel is authorized to adopt such procedure as will, in his judgment, provide a maximum safety to the vessel, its passengers and crew. When such a casualty results in damaged containers or the emergency use of unauthorized containers, such containers upon arrival at a port shall not be offered to any forwarding carrier for transportation. The vessel, owner, agent, charterer, master or other person in charge of the vessel shall report immediately to the nearest District Commander of the United States Coast Guard or his authorized representative and request instructions as to disposition of the damaged or unauthorized containers.

(b) Explosives or other dangerous articles or substances found on board a vessel in an unsafe condition may be disposed of by jettisoning or otherwise destroyed or rendered innocuous or may be continued in transportation to the nearest port whichever course may, in the judgment of the master or person in charge, provide maximum safety to the vessel, its passengers and crew. If such substance is brought into port, delivery shall not be made to the consignee or any forwarding carrier and a report shall immediately be made to the nearest District Commander of the United States Coast Guard or his authorized representative with a request for instructions as to disposition of the substance. A report shall likewise be made covering the disposition by jettisoning or otherwise of dangerous substances.

(c) Notwithstanding the provisions of paragraphs (a) and (b) of this section, when radioactive materials, other than low activity ores, are involved, the safety precautions set forth in §§ 146.25-1 to 146.25-400, inclusive, pertaining to the care following leakage or sifting of radioactive materials shall be followed whenever practicable.

[CGFR 52-8, 17 F.R. 6462, July 17, 1952]

## § 146.02-16 Shipments in violation.

(a) Shipments of explosives or other dangerous articles or substances found by a vessel's owner, agent, charterer, master, or person in charge to have been tendered or delivered for transportation on board a vessel under a false or deceptive descriptive name, marking, invoice, shipping paper or other declaration, or without the shipper furnishing information in writing of the true character thereof at or before the time of delivery, shall be refused transportation and the District Commander of the United States Coast Guard or his authorized representative, for the district in which such cargo was offered shall promptly be notified, in writing, of all the facts in connection with such violation.

(b) When any such shipments are found in transit the master of the vessel is authorized to adopt such procedure as will in his judgment provide maximum safety to the vessel, its passengers and crew. If brought into port, delivery shall not be made to the consignee or any forwarding carrier and a report shall immediately be made to the nearest District Commander of the United States Coast Guard or his authorized representative, with a request for instructions as to disposition of the shipment.

[CGFR 52-8, 17 F.R. 6462, July 17, 1952]

## § 146.02-17 Handling and stowage of cargo.

Explosives or other dangerous articles or substances as cargo shall be handled or stowed on board vessels under the direction and observation of a qualified person assigned for such duty. For vessels engaged in voyages coastwise, or on rivers, bays, sounds or lakes, including the Great Lakes when the voyage is not foreign-going, such person may be an employee of the vessel owner or charterer and so assigned by said owner or charterer or he may be a licensed officer attached to the vessel and assigned by the master of the vessel. For domestic vessels engaged in voyages foreign-going or intercoastal such persons shall be an officer possessing an unexpired license issued by the U.S. Coast Guard and assigned to such duty by the owner, charterer, agent or master of the vessel. For foreign vessels such person shall be an officer of the vessel assigned to such duty by the master of the vessel.

[Order 74, 6 F.R. 268, Jan. 11, 1941, as amended, CGFR 47-35, 12 F.R. 4184, June 27, 1947]

## § 146.02-18 Shipments via common carrier vessels.

(a) Regulations promulgated by the Interstate Commerce Commission under the title of "Explosives and Other Dangerous Articles" in effect at the time of shipment with respect to definitions, descriptions, descriptive names and classifications of explosives, inflammable liquids, inflammable solids, oxidizing materials, corrosive liquids, compressed gases and poisonous articles; and with respect to specifications of containers for such articles and with respect to the packing, marking, labeling and certification of such articles are adopted and form part of the regulations in this part and shall be complied with by all persons packing and preparing, and all shippers offering such articles for transportation by vessels that are common carriers: *Provided, however,* That the acceptance on board vessels of containers laden with such articles or bulk shipments of such articles shall comply with the provisions of the regulations in this part. Import or export shipments of such articles shall comply with the provisions of §§ 146.02-10 and 146.02-11.

(b) Shipments of combustible liquids or hazardous articles, when prepared, packed and offered for transportation by vessels that are common carrier vessels shall, with respect to definitions, descriptions, descriptive names and classifications, and with respect to containers for such articles or substances; and with respect to the packing, marking and certification of such articles or substances conform to the applicable provisions of the regulations contained in this part. Import or export shipments of such articles or substances shall comply with the provisions of §§ 146.02-10 and 146.02-11.

[Order 74, 6 F.R. 268, Jan. 11, 1941, as amended, CGFR 47-35, 12 F.R. 4184, June 27, 1947]

## § 146.02-19 Shipments via vessels other than common carriers.

(a) Explosives or other dangerous articles or substances packed in barrels, drums, boxes, cylinders, carboys or bags and offered for transportation or storage on board vessels that are not common carrier vessels shall with respect to definitions, descriptions, descriptive names and classifications of explosives, inflammable liquids, oxidizing materials, corrosive liquids, compressed gases and poisonous articles, and with respect to specifications of containers for such arti-

cles or substances, and with respect to the packing, marking, labeling and certification of such articles or substances conform to the requirements of the regulations in effect at the time of shipment as promulgated by the Interstate Commerce Commission under the title of "Explosives and Other Dangerous Articles" (49 CFR Parts 71-78) except as may be otherwise required by the regulations herein. Import or export shipments of such articles or substances shall comply with the provisions of §§ 146.02-10 and 146.02-11.

(b) Shipments of combustible liquids or hazardous articles, prepared, packed, and offered for transportation by vessels other than common carrier vessels, shall, with respect to definitions, descriptions, descriptive names and classifications; and with respect to containers for such articles or substances; and with respect to the packing, marking and certification of such articles or substances conform to the applicable provisions of the regulations contained in this part.

[Order 74, 6 F.R. 268, Jan. 11, 1941, as amended, CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

**§ 146.02-20 Repairs or work involving welding or burning or other hazards.**

(a) A vessel having on board explosives or other dangerous articles as cargo shall not proceed to a ship repair plant or enter upon a drydock or marine railway or otherwise undertake repairs, or any work involving welding or burning, or the use of powder actuated tools or appliances which may produce intense heat, in violation of any of the following provisions:

(1) No such repairs or work, except emergency repairs to the vessel's main propelling or boiler plant or auxiliaries thereto, shall be undertaken while any explosives as cargo are on board.

(2) No such repairs or work shall be undertaken in holds containing any other dangerous articles as cargo, nor in compartments adjoining holds in which other dangerous articles as cargo are stowed except necessary repairs to the vessel's main propelling or boiler plant or auxiliaries thereto, including tail shaft and propeller.

(3) No such repairs or work shall be undertaken in or upon boundaries of holds, after the discharge of any cargo of explosives or inflammable solids or oxidizing materials, until all precautions

are taken to see that no residue of cargo is left to create a hazard.

(4) No such repairs or work shall be undertaken in, or upon boundaries of, holds that have lately contained substances capable of giving off inflammable or explosive vapors, until such holds have been determined gas free.

(b) None of the provisions in paragraph (a) of this section shall apply to permitted articles of ships' stores and supplies of a dangerous nature, although provisions shall be taken to afford safe storage and protection to such stores from any risk incident to the repair work.

(c) Contrary to the provisions set forth in this section, emergency repairs may be undertaken when in the judgment of the master, such repairs are necessary for the safety of the vessel, its passengers and crew.

[CGFR 53-54, 18 F.R. 8228, Dec. 18, 1953]

**§ 146.02-21 Statements of characteristic properties.**

In the second column of the tables shown in §§ 146.20-100, 146.20-200, 146.20-300, 146.21-100, 146.22-100, 146.23-100, 146.24-100, 146.25-100, 146.25-200, 146.25-300, 146.25-400, 146.26-100, and 146.27-100 are statements in italics setting forth certain characteristic properties of the substances listed therein. It is not intended that these statements set forth all the characteristic properties of a particular substance and such statements as are shown are informative only.

[Order 74, 6 F.R. 259, Jan. 11, 1941, as amended by CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

**§ 146.02-22 Preservation of records.**

(a) Where the regulations in this part require the preparation of shipping orders, manifests, or other shipping documents, cargo lists, cargo stowage plans, reports and any other papers or records, it shall be the duty of the owner of the vessel to preserve such records or copies thereof in his office or place of business in the United States for a period of one year. Persons or corporations chartering or engaging or contracting for the use of vessels under such terms and conditions that they have full and exclusive control of the management and operating of such vessels shall be subject to the same requirement for preservation of records as are imposed upon owners of vessels by this section and in such cases

owners shall not be required to preserve such records.

(b) Any records required to be so preserved shall be produced to the Commandant of the Coast Guard or his authorized representative upon his request therefor.

Order 74, 6 F.R. 259, Jan. 11, 1941, as amended by CGFR 47-35, 12 F.R. 4184, June 1947, CGFR 58-9, 23 F.R. 4839, June 28, 1958; CGFR 62-11, 27 F.R. 5280, June 5, 1962]

**§ 146.02-25 Conditions under which equivalents or alternative procedures may be used.**

(a) When in this subchapter it is provided that a particular fitting, appliance, apparatus, equipment, or container, or type thereof, shall be fitted or carried in a vessel, or that any particular arrangement shall be adopted, the Commandant may accept in substitution therefor any other fitting, apparatus, equipment, or container, or type thereof, or any other arrangement: *Provided*, That he shall have been satisfied by suitable trials or tests that the fitting, appliance, apparatus, equipment, or container, or type thereof, or the arrangement is at least as effective as that specified in this subchapter.

(b) In any case where it is shown to the satisfaction of the Commandant that the use of any particular equipment, apparatus, container, or arrangement not specifically required by law is unreasonable or impracticable, the Commandant may permit the use of alternate equipment, apparatus, container, or arrangement to such an extent and upon such conditions as will insure, to his satisfaction, a degree of safety consistent with the minimum standards set forth in this subchapter.

(c) When the procedures, designs, or methods of stowage or construction are submitted for approval the Commandant is authorized to act regarding the approval or disapproval of such new developments for which no regulations have been provided.

[CGFR 57-30, 22 F.R. 4447, June 25, 1957]

**§ 146.02-30 Portable containers—interpretive rulings.**

(a) The phrase "drums, barrels, or other packages," as used in R.S. 4417a, as amended (46 U.S.C. 391a), and in R.S. 4472, as amended (46 U.S.C. 170), is interpreted to mean portable containers having a maximum capacity of 110 U.S. gallons and ICC specification cylinders

having a water capacity of not more than 1,000 pounds, which are actually loaded and discharged from vessels with their contents intact.

(b) The phrase "inflammable or combustible liquid cargo in bulk" as used in R.S. 4417a, as amended (46 U.S.C. 391a), and in R.S. 4472, as amended (46 U.S.C. 170), is interpreted to include such cargo in portable containers of a capacity of more than 110 U.S. gallons.

(c) The phrase "liquid cargo" used in R.S. 4417a, as amended (46 U.S.C. 391a), is interpreted to mean inflammable or combustible liquids.

(Interpret or apply R.S. 4417a, as amended (46 U.S.C. 391a)) [CGFR 63-19, 28 F.R. 5379, May 30, 1963]

### Subpart 146.03—Definitions of Words and Terms Contained Within the Regulations in this Subchapter

SOURCE: The provisions of this Subpart 146.03 contained in Order 74, 6 F.R. 259, Jan. 11, 1941, unless otherwise noted.

#### § 146.03-1 MIN.

The letters "MIN" refer to "Marine Inspection and Navigation", a former Bureau in the Department of Commerce whose functions are now carried out by the Coast Guard.

[CGFR 62-11, 27 F.R. 5280, June 5, 1962]

#### § 146.03-3 Bulk.

The word "bulk" means substances which are loaded and carried on board a vessel without benefit of containers or wrappers, and received and delivered by the vessel carrier without mark or count: *Provided, however*, That this definition does not apply to initiating or priming explosives.

#### § 146.03-5 Cargo.

For the purposes of the regulations in this part "cargo" is defined as any explosive or other dangerous article or substance, and combustible liquids, as defined within the regulations in this part, laden on board a vessel, with or without being confined within a container, for the purpose of transporting or storing such goods in the vessel.

#### § 146.03-6 CFC.

The initials "CFC" refer to Consolidated Freight Classification.

#### § 146.03-7 Character of vessel.

The term "character of vessel" means the type of service in which the vessel is

engaged at the time of carriage of the explosives or other dangerous articles or substances subject to the regulations in this part, i.e., a cargo vessel, a passenger vessel, a ferry vessel, a railroad car ferry or a barge.

**§ 146.03-8 Dangerous articles defined.**

A dangerous article within the meaning of the regulations in this subchapter is an article falling within any of the following classifications:

Explosives.  
Inflammable Liquids.  
Inflammable Solids and Oxidizing Materials.  
Corrosive Liquids.  
Compressed Gases.  
Poisons.  
Hazardous Articles.  
Ships' Stores and Supplies of a Dangerous Nature.

For definitions covering these classifications see the appropriate section within this subchapter. These are §§ 146.20-1—146.20-11; § 146.21-1; § 146.22-1; § 146.23-1; § 146.24-1; §§ 146.25-1—146.25-20; § 146.27-1; and §§ 147.02-1—147.02-2. Combustible Liquids are defined in § 146.26-1.

[CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

**§ 146.03-9 Flammable or inflammable.**

For the purpose of the regulations in this subchapter, the words "inflammable" and "flammable," are interchangeable or synonymous terms.

[CGFR 51-19, 16 F.R. 7212, July 24, 1951]

**§ 146.03-10 Explosive range.**

The vapors of inflammable liquids (and to a lesser extent of combustible liquids) when mixed with air will in proper proportions form an explosive concentration. The low or "lean" limit and the high or "rich" limit vary in accordance with the characteristics of the liquid involved. The mixture or percent by volume between the "lean" and the "rich" mixtures is termed the "explosive range". Any percentage of the vapor in air between these limits will be likely, upon ignition, to continue to burn with rapidity and violence, sometimes with explosive effects.

**§ 146.03-11 Finely divided metals.**

The phrase "finely divided metals" is used to describe metals that have been divided into small parts such as aluminum powder, bronze powder, metal cuttings or borings such as are produced in working metals.

**§ 146.03-12 Finely divided organic material.**

This phrase is used to describe organic material such as charcoal, peat moss, sugar, sulfur, sawdust, powdery materials such as flour, granular materials such as seeds, grains, and cereals, or like substances.

**§ 146.03-13 Fire point.**

The term "fire point" denotes the temperature at which the vapors given off by the substance, if ignited, will continue to burn. The fire point is generally higher than the flash point, although occasionally they coincide as in the case of ether, carbon disulfide, and a few other substances.

**§ 146.03-14 Flashpoint.**

The term "flashpoint" means the temperature at which the substance gives off inflammable vapors which in contact with spark or flame will ignite.

**§ 146.03-15 Hermetically sealed.**

The term "hermetically sealed" means perfectly closed or closed airtight by, or as by, fusion, or crimping, so that no gas nor vapor can enter or escape.

[Order 74, 6 F.R. 259, Jan. 11, 1941, as amended by Order 103, 6 F.R. 1893, Apr. 11, 1941]

**§ 146.03-16 Holds gas tight.**

This term means that the structural boundaries of the hold are free of openings and constructed sufficiently tight to withstand a gas pressure not in excess of 1 pound per square inch. A hold that will withstand a hose test without leakage may be assumed as being gas tight. Cargo or other openings in the structural boundaries of such holds (except over deck cargo hatches) shall be provided with tight closing means. Cargo hatch openings in the over deck provided with hatch covers and tarpaulins are accepted as satisfactory closing means for such compartment or hold.

[Order 74, 6 F.R. 259, Jan. 11, 1941, as amended by Order 103, 6 F.R. 1893, Apr. 11, 1941]

**§ 146.03-17 ICC.**

The initials "ICC" refer to Interstate Commerce Commission.

**§ 146.03-18 ICC regulations.**

The term "ICC Regulations" when used in the regulations in this part refers to regulations of the Interstate Commerce Commission for "Explosives and Other Dangerous Articles" (49 CFR Parts 71-78) in effect at the time a shipment is

ing and subject to the regulations in this part.

Order 74, 6 F.R. 280, Jan. 11, 1941, as amended by CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

#### § 146.03-19 Inside containers.

(a) The following abbreviations when used in the tables indicate that the substance is packed in "Inside Containers" and the following descriptions:

"WIC" means With Inside Containers, which may be glass, earthenware, metal, polyethylene or other authorized materials.

"WIL" means With Inside Liners, which include coatings resistant to the lading, applied to the inside of a container so as to prevent reaction with the construction material of the container.

"WIMC" means With Inside Metal Containers.

"WIML" means With Inside Metal Liners.

"WIFL" means With Inside Paper Liners.

(b) The inside containers and packing, when required, shall comply with the requirements of the Interstate Commerce Commission Regulations in effect at the time of shipment.

CGFR 62-11, 27 F.R. 5280, June 5, 1962, and 68-17, 30 F.R. 7438, June 5, 1965]

#### § 146.03-20 Label.

The term "label" means the caution label required by the regulations in this subchapter and the regulations of the ICC to be affixed to outside containers of explosives or other dangerous articles or substances.

#### § 146.03-21 Marking.

The term "marking" refers to the descriptive name, instructions, cautions, weight data, or specification marks that are required by the regulations in this subchapter and the regulations of the ICC to be placed upon outside containers of explosives or other dangerous articles or substances or combustible liquids.

#### § 146.03-22 Miscible.

For the purpose of the regulations in this part the term "miscible" is applied to liquids, and means such liquids are capable of mixing freely, in many cases in all proportions, with water.

#### § 146.03-23 Miscibility with water.

This term "miscibility with water" is shown in the regulations for the purpose of indicating the adaptability of water in volume in the event of ignition of the liquid.

#### § 146.03-24 Navigable waters.

Where used in the regulations in this part the term "navigable waters" in-

cludes the navigable waters of the United States, its Territories and possessions, but not the navigable waters of the Panama Canal Zone.

[Order 74, 6 F.R. 259, Jan. 11, 1941, as amended by CGFR 47-35, 12 F.R. 4184, June 27, 1947]

#### § 146.03-25 N.O.S.

The abbreviation "N.O.S." means not otherwise specified by name in the regulations in this part.

#### § 146.03-26 Not permitted.

The term "not permitted" means the dangerous articles or substances shall not be offered, placed on board, transported, or stored on a vessel subject to the regulations in this subchapter when the term is specifically applied in the regulations in this part to a particular substance or vessel.

#### § 146.03-27 Outside containers.

The term "outside containers" means the outer over-all container which is authorized by the regulations in this part to be used for the packing of the particular substance. As a rule they are specification containers, but in some instances nonspecification outside containers are authorized.

#### § 146.03-28 Prohibited.

The term "prohibited" is applied to the explosive substances named and described in subsection (3) of R.S. 4472, as amended, and means such explosive substances shall not be offered to any vessel placed on board, transported, or stored on board any vessel within the navigable waters of the United States.

#### § 146.03-29 Shipping papers.

For definition of "shipping papers" see §§ 146.05-12, 146.05-13 and 146.05-14.

#### § 146.03-30 Soluble.

For the purpose of the regulations in this part, the term "soluble" means capable of being dissolved in water, forming homogeneous or uniform mixtures. (It is to be noted that some substances freely dissolve and others dissolve very slowly.)

#### § 146.03-31 STC and NRC.

The term "STC" means "single trip container" that must not be reused for shipment of dangerous articles unless approved by the Interstate Commerce Commission. The term "NRC" means "nonreusable container" that must not



be reused for shipment of dangerous articles.

[CGFR 58-9, 23 F.R. 4839, June 28, 1958]

§ 146.03-32 Storage.

The term "storage" as used in the regulations in this part means the placing of explosives or other dangerous articles or substances on board a vessel for purposes of safekeeping or accumulation, pending removal therefrom in whole or in part at a subsequent time; the process of "placing on board" and "removing therefrom" occurring without movement of the vessel being involved.

§ 146.03-33 Stowage.

For the purposes of the regulations in this subchapter the term "stowage" embraces the art of placing and securing goods on board a vessel within the holds of the vessel, or on the decks, in such manner as to enhance safety during the period of transportation.

§ 146.03-34 Stowage terms defined.

For the purposes of the regulations in this part the following stowage terms are defined:

(a) "On deck in open" means the articles may be stowed on the open weather deck of a vessel. Such cargo may be protected from the elements if necessary or advisable.

(b) "On deck protected" means the articles may be stowed on the open weather deck of a vessel. It is required that dangerous cargo stowed under such conditions shall be protected from the elements by structural erections or from the direct rays of the sun by means of awnings or dunnaging.

(c) "On deck under cover" means the articles may be stowed on the weather deck of a vessel under covered erections, such as forecastle, bridge house, poop, and deck houses, having permanent structural openings to the atmosphere, but no structural openings such as doors, hatches, companionways, or manholes to any living quarters, cargo carrying, or other compartments, unless such doors, hatches, companionways, or manholes are provided with hinged means for closing off and securing such openings. Stowage shall not be utilized in any deck house containing living quarters, a steering engine or refrigerating unit or refrigerated stowage boxes unless the areas occupied by such units are isolated from the stowage area by permanent and tight metallic division bulkheads.

(d) "Cargo hatch trunkway" means the articles may be stowed in a cargo hatch trunkway provided the trunk is constructed of steel without openings except such openings as are fitted with positive closing means, provided further, that noncombustible hatch closing means, or combustible hatch covers metal lined all over, are fitted at the lower terminus of the trunk securely closing off the cargo hold from the trunkway. A cargo hatch trunkway the upper terminus of which is located in a tween deck space shall not be utilized for such stowage unless fitted with steel hatch covers and then only when such terminus is always visible and accessible during the voyage.

(e) "Tween decks readily accessible" means the articles may be stowed in upper cargo spaces below or off the weather deck, and so stowed as to be readily accessible from the cargo openings (but not in the square of the hatch if the latter is made up of wooden hatch covers) or in a shelter deck directly in-board of structural openings from the weather deck. A vessel having cargo carrying holds which extend from the tank top or lower flat to the weather deck and having no enclosed cargo stowage space imposed above such single holds may substitute "Under deck away from heat" in lieu of "Tween decks readily accessible" stowage.

(f) "Tween decks" means the articles may be stowed in an upper cargo space below or off the weather deck, or in a shelter deck space. Any openings in the bulkheads forming boundaries of such tween deck spaces shall be fitted with positive closing means. Hatches shall be provided with a full complement of covers. After stowage of cargo all openings shall be closed and remain closed during the voyage, except for such ingress and egress as is necessary in the operation of the vessel.

(g) "Under deck away from heat" means the articles may be stowed in a cargo space in a deep hold or a tween deck hold capable of being ventilated and not subject to heat from any artificial source. Holds of which any boundary bulkhead or deck forms part of the boundary of a boiler room, engine room, coal bunker, or galley shall not be utilized for this type of stowage unless the dangerous substances are stowed not less than twenty (20) feet away from such bulkheads; provided, however, that this limitation shall not apply to cargo

spaces in holds adjacent to the engine room of vessels fitted with internal combustion engines.

**NOTE:** Order 146, Sept. 10, 1941, 6 F.R. 4668, provides in part as follows: Any vessel having a wooden bulkhead constructed at least eight (8) inches off a boiler room, engine room, coal bunker or galley bulkhead, when one of these bulkheads forms a boundary of a cargo carrying compartment, and transporting a substantially full cargo of sisal or other vegetable fibers (except cotton), and such portion of the sisal or other vegetable fibers cargo (except cotton) as is stowed "Tween decks" or "Under deck away from heat" are exempt from that provision of § 146.03-34(g) of the regulations of the Commandant of the U.S. Coast Guard governing the transportation of explosives or other dangerous articles on board vessels which requires that such substances be stowed at least 20 feet away from boiler room, engine room, coal bunker or galley bulkhead.

All other provisions of the regulations applying to sisal or other vegetable fibers (except cotton) and all other applicable provisions of the general and detail regulations shall be observed.

(h) "Under deck" means that the articles may be stowed in a cargo space in a deep hold or a tween deck hold capable of being ventilated. A hold is defined as an area allotted entirely to the carriage of cargo and is bounded by permanent steel bulkheads and decks, and the shell of the vessel, the deck openings being provided with means for effectively closing the hold against the weather, and in the case of superimposed holds, effectively closing off each hold. A cargo space or hold lying within the above definition shall not be used for the stowage of explosives except fireworks or relatively safe—Class C—explosives unless closed off to the public while the vessel is on its voyage. A cargo space or hold containing a crew passage formed by battens or by a mesh wire screen bulkhead shall not be used for stowage of other dangerous articles or substances, including fireworks and relatively safe explosives—Class C, unless watchman service is provided for such spaces.

(i) [Reserved]

(j) "Under deck but not overstowed" means the articles may be stowed in a cargo space in any hold as defined under paragraph (h) of this section, the characteristics of dangerous articles so stowed being such as to prevent the stowage of any other type of cargo over same.

(k) "Ferry stowage (AA)" means that a highway vehicle loaded with any per-

mitted explosives or other dangerous articles or substances, or combustible liquids in conformity with all the applicable provisions of these regulations, may be transported on board a ferry vessel when stowed as directed by the vessel's representative. The vehicle need not be in a position to jettison but should be stowed as to be easily accessible.

(l) "Ferry stowage (BB)" means that a railroad vehicle loaded with any permitted explosives or other dangerous articles or substances or combustible liquids in conformity with all the applicable provisions of the regulations in this part, may be transported on board a railroad car ferry when stowed in a location away from sources of artificial heat. The vehicle need not be in position to jettison but should be easily accessible. Railroad car ferries accepting highway vehicles loaded with any permitted dangerous substances indicated as utilizing "Ferry stowage (AA)" shall stow such vehicle away from sources of artificial heat and easily accessible.

#### § 146.03-35 Vapor density.

The term "vapor density" is the relative density of the vapor given off by an inflammable liquid as compared with air. A figure less than one (1) indicates a vapor lighter than air and a figure greater than one (1) indicates a vapor heavier than air.

#### § 146.03-36 Vessels defined.

For the purposes of the regulations in this subchapter passenger carrying vessels or passenger vessels, barges and cargo vessels are defined as follows:

(a) *Passenger carrying vessels or passenger vessels.* (1) A passenger carrying vessel or a passenger vessel is any vessel which carries passengers: *Provided*, That no vessel of the following classes shall be considered a passenger carrying vessel or a passenger vessel:

(i) Any vessel subject to any of the provisions of the International Convention for the Safety of Life at Sea, 1948, which neither carries nor is authorized to carry more than 12 passengers.

(ii) Any cargo vessel documented under the laws of the United States and not subject to that Convention which neither carries nor is authorized to carry more than 16 persons in addition to the crew.

(iii) Any cargo vessel of any foreign nation that extends reciprocal privileges and not subject to that Convention which neither carries nor is authorized

to carry more than 16 persons in addition to the crew.

(2) Any passenger vessel that is not designed and built to receive railroad vehicles shall be considered a passenger ferry if it is engaged in a ferry operation.

(3) Any passenger vessel that is designed and built to receive railroad vehicles shall be considered a railroad car ferry.

(b) *Barge*. Any non self-propelled vessel having no passengers on board, shall be considered a barge.

(c) *Cargo vessel*. (1) Any vessel other than a passenger vessel or a barge shall be considered a cargo vessel.

(2) Any passenger ferry or railroad car ferry during any period it is being operated under authority of a change of character certificate issued by an Officer in Charge, Marine Inspection.

[Order 74, 6 F.R. 259, Jan. 11, 1941, as amended by CGFR 50-16, 15 F.R. 4503, July 15, 1950; CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

#### § 146.03-37 Volatility.

The term "volatility" is used to indicate the tendency of a liquid to assume the vapor state. The tendency of a liquid to evaporate is influenced by other factors than the vapor pressure. Increased volatility will result from the influence of a rise in temperature.

#### § 146.03-38 W.T.

The abbreviation "W.T." means watertight.

#### § 146.03-39 W or W/O.

The abbreviation "w" or "w/o" mean "With" or "Without" (i.e. Ammunition for cannon w/o projectiles).

[CGFR 56-29, 21 F.R. 7054, Sept. 20, 1956]

### Subpart 146.04—List of Explosives or Other Dangerous Articles Containing the Shipping Name or Description of Articles Subject to the Regulations in this Subchapter

SOURCE: The provisions of this Subpart 146.04 contained in Order 74, 6 F.R. 261, Jan. 11, 1941, unless otherwise noted.

#### § 146.04-1 Proper shipping name.

The proper shipping name which shall be used and shown on bill of lading or other shipping paper and on outside of shipping containers where required by the regulations in this subchapter, appears in this list in roman type (not italics).

#### § 146.04-2 Dangerous articles not named.

Any article not properly described by a name shown in this commodity list when such article classifies under the definitions contained herein as a dangerous article shall be prepared and offered for shipment in compliance with the regulations in this part.

#### § 146.04-3 Classification.

This list shows the classification of each permitted article or substance. It also shows the articles or substances that are prohibited by the provisions of R. S. 4472, as amended, or that are not permitted by the regulations in this part, for transportation or storage on board vessels.

#### § 146.04-4 Signs and abbreviations.

The meaning of the signs and abbreviations used in § 146.04-5 are as follows:

(\*) Asterisk indicates the article may or may not come within the classification shown. If, in accordance with the definitions contained herein, the article does come within the classification it is subject to the regulations in this part.

Inf. L.....	Inflammable Liquid.
Inf. S.....	Inflammable Solid.
Oxy. M.....	Oxidizing Material.
Cor. L.....	Corrosive Liquid.
Inf. G.....	Inflammable Compressed Gas.
Noninf. G.....	Noninflammable Compressed Gas.
Pols. A.....	Poison Gas or Liquid, Class A.
Pols. B.....	Poisonous Liquid or Solid, Class B.
Pols. C.....	Tear Gas, Class C.
Pols. D.....	Radioactive Material, Class D.
Expl. A.....	Class A Explosives.
Expl. B.....	Class B Explosives.
Expl. C.....	Class C Explosives.
Comb. L.....	Combustible Liquid.
Haz.....	Hazardous Article.
Prohibited.....	Means prohibited by R. S. 4472, as amended.
Not permitted..	Means not permitted by the regulations in this subchapter.
No restrictions..	Means this item is shown in the regulations only to distinguish it from articles under similar name that are classed as dangerous.

[Order 74, 6 F.R. 261, Jan. 11, 1941, as amended by Order 103, 6 F.R. 1893, Apr. 11, 1941; CGFR 53-26, 18 F.R. 5205, Sept. 1, 1953]

## 146.04-5 List of explosives and other dangerous articles and combustible liquids.

Article	Classed as—	Label required <sup>1</sup>
Acetaldehyde (ethyl aldehyde).....	Inf. L.	Red.
Acetic acid (aqueous solution).....	Comb. L.	
Acetic acid, glacial.....	Comb. L.	
Acetic anhydride.....	Comb. L.	
Acetone.....	Inf. L.	Red.
Acetone cyanhydrin.....	Pois. B.	Poison.
Acetone oils.....	Comb. L.	
Acetone oils.....	Inf. L.	Red.
Acetonitrile (see: Acetone).....	Inf. L.	Red.
Azyl benzoyl peroxide, solid (see: "Organic peroxides").....	Not permitted	
Azyl benzoyl peroxide, solution (see: "Organic peroxides").....	Oxy. M.	Yellow.
Azyl chloride.....	Cor. L.	White.
Azyl peroxide, solid (see: "Organic peroxides").....	Not permitted	
Azyl peroxide, solution (see: "Organic peroxides").....	Oxy. M.	Yellow.
Acrylonitrile.....	Inf. G.	Red gas.
Carboys, empty (see: "Carboys, empty").....	Haz.	
Picric acid (see: "Picric acid.").....		
Sludge, (see: "Sludge acid.").....	Cor. L.	White.
Acid, liquid, N. O. S. ....	Cor. L.	White.
Protein (inhibited).....	Inf. L.	Red.
Acrylonitrile.....	Inf. L.	Red.
Gasating cartridges, explosive, fire extinguisher or valve.....	Expl. C.	
Shoes, N.O.S. (see: "Cement, leather").....	Inf. L.	Red.
Acetylene flares. (see: "Fireworks, special").....		
Aircraft rocket engines (commercial).....	Inf. S.	Yellow.
Aircraft rocket engine igniters (commercial).....	Inf. S.	Yellow.
Gas, compressed.....	Noninf. G.	Green gas.
Alcohol, allyl.....	Pois. B.	Poison.
Alcohol, amyl (see: Alcohol, N. O. S.).....	Comb. L.	
Alcohol, N. O. S. ....	Comb. L.	
Alcohol, N. O. S. ....	Inf. L.	Red.
Aldrin.....	Pois. B.	Poison.
Aldrin, cast solid (see: "Aldrin mixtures, dry, with more than 65 percent aldrin").....		
Aldrin mixtures, dry, with more than 65 percent aldrin.....	Pois. B.	Poison.
Aldrin mixtures, dry, with 65 percent or less aldrin (see: "Aldrin mixtures, dry, with more than 65 percent aldrin").....		
Aldrin mixtures, liquid, with more than 60 percent aldrin.....	Pois. B.	Poison.
Aldrin mixtures, liquid, with 60 percent or less aldrin (see: "Aldrin mixtures, liquid, with more than 60 percent aldrin").....		
Alkaline battery fluid.....	Cor. L.	White.
Alkaline caustic liquids, N. O. S. ....	Cor. L.	White.
Alkaline corrosive battery fluid.....	Cor. L.	White.
Alkaline corrosive liquids, N. O. S. ....	Cor. L.	White.
Aluminum halides (see: "Pyroforic liquids, N.O.S.").....		
Allyl alcohol (see: "Alcohol, allyl").....	Pois. B.	Poison.
Azyl bromide.....	Inf. L.	Red.
Azyl chlorocarbonate.....	Cor. L.	White.
Azyl chloroformate.....	Cor. L.	White.
Azyl trichlorosilane.....	Cor. L.	White.
Ammonium alkyls (see: "Pyroforic liquids, N.O.S.").....		
Ammonium cross.....	Inf. S.	
Ammonium liquid (or paint) (see: "Paint, enamel, etc.").....	Comb. L.	
Ammonium liquid (or paint) (see: "Paint, enamel, etc.").....	Inf. L.	Red.
Ammonium nitrate (see: "Nitrates").....	Oxy. M.	Yellow.
Ammonium powder, uncoated.....	Haz.	
Ammonium tributyl (see: "Pyroforic liquids, N.O.S.").....		
Ammonium triethyl (see: "Pyroforic liquids, N.O.S.").....		
Ammonium trimethyl (see: "Pyroforic liquids, N.O.S.").....		
Ammonium (see: "High explosives").....		
Ammonia, anhydrous.....	Noninf. G.	Green gas.
Ammonium arsenate, solid.....	Pois. B.	Poison.
Ammonium dichromate (ammonium dibromate).....	Inf. S.	Yellow.
Ammonium nitrate (organic coated) (see: "Nitrates").....	Oxy. M.	Yellow.
Ammonium nitrate (no organic coating) (see: "Nitrates").....	Oxy. M.	Yellow.
Ammonium nitrate—Carbonate mixtures (see: "Nitrates").....	Oxy. M.	Yellow.
Ammonium nitrate mixed fertilizer (containing over 13 percent by weight of ammonium nitrate) (see: "Nitrates").....	Oxy. M.	Yellow.
Ammonium nitrate phosphate (see: "Nitrates").....	Oxy. M.	Yellow.
Ammonium perchlorate (see: "Perchlorates").....	Oxy. M.	Yellow.
Ammonium permanganate (see: "Permanganates").....	Oxy. M.	Yellow.
Ammonium picrate (see: "High explosives").....		
Ammonium picrate, wet (when wet with not less than 10 percent water and in a quantity not exceeding 16 ounces in one outside package).....	Inf. S.	
Ammonium sulfate nitrate.....	Haz.	
Ammunition, chemical (containing class A poisons, liquids, or gases). (See: "Chemical ammunition.").....		
Ammunition, chemical (containing class B poisons, liquid, or gases). (See: "Chemical ammunition.").....		
Ammunition, chemical (containing class C poisons, liquids, gases or solids). (See: "Chemical ammunition.").....		
Ammunition, chemical, explosive.....	Expl. A.	
Ammunition for cannon, nonexplosive.....	No restrictions	
Ammunition for cannon with empty projectiles.....	Expl. B.	
Ammunition for cannon with explosive projectiles.....	Expl. A.	
Ammunition for cannon with gas projectiles.....	Expl. A.	

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Ammunition for cannon with illuminating projectiles.....	Expl. A.....	
Ammunition for cannon with incendiary projectiles.....	Expl. A.....	
Ammunition for cannon with inert-loaded projectiles.....	Expl. B.....	
Ammunition for cannon with smoke projectiles.....	Expl. A.....	
Ammunition for cannon with solid projectiles.....	Expl. B.....	
Ammunition for cannon without projectiles.....	Expl. B.....	
Ammunition for small arms with explosive bullets.....	Expl. A.....	
Ammunition for small arms with explosive projectiles.....	Expl. A.....	
Ammunition material.....	No restrictions.....	
Ammunition—projectiles, grenades, bombs, mines, torpedoes.....	Expl. A.....	
Ammunition, rocket (see: "Rocket ammunition").....		
Ammunition, small arms (see: "Small-arms ammunition").....	Expl. C.....	
*Amyl acetate (see: Allyl bromide).....	Comb. L.....	
*Amyl acetate (see: Allyl bromide).....	Inf. L.....	Red.
Amyl chloride (see: Allyl bromide).....	Inf. L.....	Red.
Amyl mercaptan (see: "Mercaptans").....	Inf. L.....	Red.
Amyl nitrite.....	Inf. L.....	Red.
Amyl trichlorostilane.....	Cor. L.....	White.
Anhydrous ammonia.....	Noninf. G.....	Green gas.
Anhydrous ammonia in bulk (see: § 146.24-85).....		
Anhydrous hydrazine (see: "Hydrazine, anhydrous").....	Cor. L.....	White.
Anhydrous hydrofluoric acid (see: "Hydrofluoric acid, anhydrous").....	Cor. L.....	White.
Aniline oil drums empty.....	Haz.....	
Aniline oil, liquid.....	Pois. B.....	Poison.
Antisoyl chloride.....	Cor. L.....	White.
*Anti-freeze compounds, liquid.....	Comb. L.....	
*Anti-freeze compounds, liquid.....	Inf. L.....	Red.
*Anti-freeze preparations, proprietary, liquid.....	Comb. L.....	
*Anti-freeze preparations, proprietary, liquid.....	Inf. L.....	Red.
Antimony pentachloride.....	Cor. L.....	White.
Antimony pentachloride, solution.....	Cor. L.....	White.
Antimony pentafluoride.....	Cor. L.....	White.
Apparatus (see: "Machines or apparatus").....		
*Aqua ammonia solution containing anhydrous ammonia.....	Noninf. G.....	Green gas.
Argon.....	Noninf. G.....	Green gas.
Argon, pressurized liquid.....	Noninf. G.....	Green gas.
Arsenate of lead (see: "Lead arsenate").....	Pois. B.....	Poison.
Arsenic acid, liquid.....	Pois. B.....	Poison.
Arsenic acid, solid.....	Pois. B.....	Poison.
Arsenic bromide, solid.....	Pois. B.....	Poison.
Arsenic chloride (arsenous) liquid.....	Pois. B.....	Poison.
Arsenic iodide, solid.....	Pois. B.....	Poison.
Arsenic pentoxide, solid.....	Pois. B.....	Poison.
Arsenic, solid.....	Pois. B.....	Poison.
Arsenic sulfide (powder), solid.....	Pois. B.....	Poison.
Arsenic trichloride, liquid (see: "Arsenic chloride (arsenous) liquid").....	Pois. B.....	Poison.
Arsenic trioxide, solid.....	Pois. B.....	Poison.
Arsenic, white, solid.....	Pois. B.....	Poison.
Arsenical compounds or mixtures, N. O. S., liquid.....	Pois. B.....	Poison.
Arsenical compounds or mixtures, N. O. S., solid.....	Pois. B.....	Poison.
Arsenical dip, liquid (sheep dip).....	Pois. B.....	Poison.
Arsenical dust (see: "Insecticide, dry").....	Pois. B.....	Poison.
Arsenical flue dust (see: "Insecticide, dry").....	Pois. B.....	Poison.
Arsenous acid, solid (see: "Arsenic trioxide, solid").....	Pois. B.....	Poison.
Arsenous and mercuric iodide solution, liquid.....	Pois. B.....	Poison.
*Asphalt.....	Haz.....	
*Asphalt, cut-back (see: "Road asphalt or tar, liquid").....		
*Asphaltic surfacing material (see: "Road asphalt or tar, liquid").....	Comb. L.....	
Automobiles, motorcycles, tractors, or other self-propelled vehicles, new or used, when offered for transportation without boxing or crating and containing gasoline, or other motor fuel, within the fuel tank.....	Haz.....	
Automobiles, motorcycles, tractors, or other self-propelled vehicles, new or used, with or without boxing or crating and containing no gasoline or other motor fuel within the motor or fuel tank. (See: "Automobiles, motorcycles, tractors, or other self-propelled vehicles, etc.").....		
1-Aziridinyl phosphine oxide (tris) (see: "Tris-(1-Aziridinyl) phosphine oxide").....	Cor. L.....	White.
Bags, nitrate of soda, empty or unwashed.....	Inf. S.....	Yellow.
Bags, nitrate of soda, empty and washed (see: "Burlap bags, used and washed").....	Inf. S.....	Yellow.
Barium azide—50 percent or more water, wet.....	Inf. S.....	Yellow.
Barium chlorate (see: "Chlorates").....	Oxy. M.....	Yellow.
Barium chlorate, wet (see: "Chlorates, wet").....	Oxy. M.....	Yellow.
Barium cyanide, solid (see: "Cyanides, etc.").....	Pois. B.....	Poison.
Barium nitrate (see: "Nitrates").....	Oxy. M.....	Yellow.
Barium perchlorate (see: "Perchlorates").....	Oxy. M.....	Yellow.
Barium permanganate (see: "Permanganates").....	Oxy. M.....	Yellow.
Barium peroxide (binazide, dioxide).....	Oxy. M.....	Yellow.
Barrels, empty (see: "Drums, empty").....	Haz.....	
Batteries, dry.....	No restrictions.....	
Batteries, electric storage, wet.....	Cor. L.....	White.
Batteries, electric storage, wet, with automobiles or auto parts (see: "Batteries, electric storage, wet" or "Automobiles, etc.").....	Cor. L.....	White.
Batteries, electric storage, wet, with containers of corrosive battery fluid (see: "Electrolyte (acid) or alkaline corrosive battery fluid packed with storage batteries").....	Cor. L.....	White.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Battery charger with electrolyte (acid) or battery fluid (see: "Electrolyte (acid) or alkaline corrosive battery fluid packed with battery charger, radio current supply device, or electronic equipment and actuating devices").	Cor. L.	White.
Battery fluid (see: "Electrolyte (acid) battery fluid" or "Alkaline corrosive battery fluid").	Cor. L.	White.
Battery parts (plates, grids, etc., unwashed, exhausted)	Haz.	
Benzaldehyde.	Comb. L.	
Benzene (benzol).	Inf. L.	Red.
*Benzine.	Comb. L.	
*Benzine.	Inf. L.	Red.
Benzine (export only) (see: "Gasoline").	Inf. L.	Red.
Benzol (benzene).	Inf. L.	Red.
Benzoyl chloride.	Inf. L.	Red.
Benzoyl peroxide, dry (granular form) (see: "Organic peroxides").	Cor. L.	White.
Benzoyl peroxide, wet (with not less than 90 percent water) (see: "Organic peroxides").	Oxy. M.	Yellow.
	Oxy. M.	Yellow.
Benzyl bromide (bromotoluene, alpha).	Cor. L.	White.
Benzyl chloride.	Cor. L.	White.
Benzyl chlorocarbonate.	Cor. L.	White.
Benzyl chloroformate.	Cor. L.	White.
*Beryllium compounds, solid, N. O. S.	Pois. B.	Poison.
Black blasting powder (see: "Black powder").	Expl. A.	
Black pellet powder (see: "Black powder").	Expl. A.	
Black powder.	Expl. A.	
Black powder igniters with empty cartridge bags (see: "Igniters").	Expl. C.	
Black rifle powder (see: "Black powder").	Expl. A.	
Blasting caps, electric—more than 1,000 (see: "Initiating or priming explosives").	Expl. A.	
Blasting caps, electric—1,000 or less (see: "Blasting caps").	Expl. C.	
Blasting caps—more than 1,000 (see: "Initiating or priming explosives").	Expl. A.	
Blasting caps—1,000 or less.	Expl. C.	
Blasting caps with metal clad mild detonating fuse—1,000 or less.	Expl. C.	
Blasting caps with metal clad mild detonating fuse—more than 1,000 (see: Initiating or priming explosives).	Expl. A.	
Blasting caps with safety fuse—more than 1,000 (see: "Initiating or priming explosives").	Expl. A.	
Blasting caps with safety fuse—1,000 or less.	Expl. C.	
Blasting gelatin (see: "High explosives").		
Blasting powder (see: "Black powder").		
Bleaching powder.	Haz.	
*Boiler compound, liquid.	Cor. L.	White.
Bombs, explosive (see: "Explosive bombs").		
Bombs, explosive, gas, smoke or incendiary (see: "Ammunition, chemical, explosive").		
Bombs, explosive, incendiary (see: "Explosive bombs").		
Bombs, fireworks (see: "Fireworks, special").		
Bombs, gas, smoke, or incendiary, nonexplosive (see: "Chemical ammunition").		
Bombs, incendiary or smoke without bursting charges (see: "Fireworks special").		
Bombs, practice with electric primers or electric squibs.	No restrictions.	
Bombs, sand-loaded or empty (see: "Ammunition for cannon, non-explosive").		
Boosters (explosive) (see: "Initiating or priming explosives").	Expl. A.	
Bordeaux arsenites, liquid (see: "Arsenical compounds or mixtures, N. O. S., liquid").	Pois. B.	Poison.
Bordeaux arsenites, solid.	Pois. B.	Poison.
Boron trichloride.	Cor. L.	White.
Boron trifluoride.	Noninf. G.	Green gas.
Bottles, acid or other corrosive liquid, empty.	Haz.	
*Box toe board (nitrocellulose base).	Haz.	
*Box toe gum.	Comb. L.	
*Box toe gum.	Inf. L.	Red.
Brimstone (see: "Sulfur").	Haz.	
Bromacetone, liquid.	Pois. A.	Poison gas,
Brombenzyl cyanide, liquid.	Pois. C.	Tear gas.
Bromine.	Cor. L.	White.
Bromine pentafluoride.	Cor. L.	White.
Bromine trifluoride.	Cor. L.	White.
Bromobenzene.	Comb. L.	
Bromobenzol (see: "Bromobenzene").		
Bromomethane, liquid (see: "Methyl bromide, liquid").		
Bromotoluene, alpha.	Cor. L.	White.
*Bronze liquid (or paint) (see: "Paint, enamel, etc.").	Comb. L.	
*Bronze liquid (or paint) (see: "Paint, enamel, etc.").	Inf. L.	Red.
Brucine, solid (dimethoxy strychnine).	Pois. B.	Poison.
Burlap bags, new (see: "Burlap cloth").	Haz.	
Burlap bags, used and unwashed or uncleaned.	Haz.	
Burlap bags, used and washed (see: "Burlap cloth").	Haz.	
Burlap bags, vacuum cleaned, wheel cleaned or otherwise mechanically brushed (see: "Burlap cloth").	Haz.	

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Article	Classed as—	Label required <sup>1</sup>
Burlap cloth ( <i>hessian</i> )	Haz.	
Burnt cotton (not replucked)	Inf. S.	Yellow.
Burnt fibers (see: "Fibers, burnt")	Inf. S.	Yellow.
Bursts (explosive) (see: "Boosters")	Expl. A.	
Butadiene, inhibited	Inf. G.	Red gas.
Butane (see: "Liquefied petroleum gas")		
*Butyl acetate	Inf. L.	Red.
*Butyl acetate	Comb. L.	
*Butyl alcohol (see: Alcohol, N. O. S.)	Comb. L.	
*Butyl alcohol (see: Alcohol, N. O. S.)	Inf. L.	Red.
Butyl ether	Comb. L.	
Butyl mercaptan (see: "Mercaptans")	Inf. L.	Red.
Butyl trichlorosilane	Cor. L.	White.
Butyraldehyde	Inf. L.	Red.
Cacodylic acid, solid (dimethylarsenic)	Pol. B.	Poison.
Calcium arsenate, solid	Pol. B.	Poison.
Calcium arsenite, solid	Pol. B.	Poison.
Calcium carbide	Haz.	
Calcium chlorate (see: "Chlorates")	Oxy. M.	Yellow.
Calcium chlorite	Oxy. M.	Yellow.
Calcium cyanamide, not hydrated	Haz.	
Calcium cyanide (see: "Cyanides, etc.")	Pol. B.	Poison.
Calcium hypochlorite (see: "Bleaching powder" or "Calcium hypochlorite compounds, dry")		
Calcium hypochlorite compounds, dry, containing more than 39 percent available chlorine	Oxy. M.	Yellow.
Calcium, metallic	Inf. S.	Yellow.
Calcium, metallic, crystalline	Inf. S.	Yellow.
Calcium nitrate (see: "Nitrates")	Oxy. M.	Yellow.
Calcium permanganate (see: "Permanganates")	Oxy. M.	Yellow.
Calcium peroxide	Oxy. M.	Yellow.
Calcium phosphide	Inf. S.	Yellow.
Calcium resinate	Inf. S.	Yellow.
Calcium resinate, fused	Haz.	
Camphene	Comb. L.	
Camphor oil		
Cannon powder (see: "Black powder")	Expl. C.	
Cannon primers (see: "Primers")	Oxy. M.	Yellow.
Caprylyl peroxide (see: "Organic peroxides")		
Caps, blasting (see: "Blasting caps")		
Caps, toy (see: "Toy caps")		
Carbolic acid (phenol), liquid	Pol. B.	Poison.
Carbolic acid, fused, solid	Pol. B.	Poison.
Carbolic acid (phenol), solid	Pol. B.	Poison.
Carbon bisulfide (disulfide)	Inf. L.	Red.
Carbon dioxide gas, liquefied (mining device)	Noninf. G.	Green gas.
Carbon dioxide, liquefied	Noninf. G.	Green gas.
Carbon dioxide-nitrous oxide mixture	Noninf. G.	Green gas.
Carbon dioxide-oxygen mixture	Noninf. G.	Green gas.
Carbon dioxide, solid	Haz.	
Carbon disulfide (see: "Carbon bisulfide")		
Carbon monoxide	Inf. G.	Red gas.
*Carbon remover, liquid (see: "Compounds, cleaning, liquid")	Comb. L.	
*Carbon remover, liquid (see: "Compounds, cleaning, liquid")	Inf. L.	Red.
Carbon tetrachloride	Haz.	
Carbonyl chloride (see: "Phosgene")		
*Carboys, empty	Haz.	
Cartridge bags, empty, with black powder igniters (see: "Igniters")	Expl. C.	
Cartridge cases, empty, primed (see: "Primers")	Expl. C.	
*Case oil (see: "Benzene, Benzine, Gasoline, etc.")		
Casinghead gasoline (see: "Gasoline")		
Castor beans	Haz.	
Castor pomace (see: "Castor beans")		
Caustic potash, liquid	Cor. L.	White.
Caustic potash, solid	Haz.	
Caustic soda, liquid	Cor. L.	White.
Caustic soda, solid	Haz.	
*Cellulosolve (see: "Ethylene glycol monoethyl ether")		
*Cellulosolve acetate (see: "Ethylene glycol monoethyl ether acetate")		
*Cement, adhesive, N. O. S.	Comb. L.	
*Cement, adhesive, N. O. S.	Inf. L.	Red.
*Cement, container, liquid	Comb. L.	
*Cement, container, liquid	Inf. L.	Red.
*Cement, leather	Comb. L.	
*Cement, leather	Inf. L.	Red.
*Cement, linoleum	Comb. L.	
*Cement, linoleum	Inf. L.	Red.
*Cement, liquid, N. O. S.	Comb. L.	
*Cement, liquid, N. O. S.	Inf. L.	Red.
*Cement, pyroxylin	Comb. L.	
*Cement, pyroxylin	Inf. L.	Red.
*Cement, roofing, liquid	Comb. L.	
*Cement, roofing, liquid	Inf. L.	Red.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
*Cement, rubber.....	Comb. L.....	
*Cement, rubber.....	Inf. L.....	Red.
*Cement, tile.....	Comb. L.....	
*Cement, tile.....	Inf. L.....	Red.
*Cement, wallboard.....	Comb. L.....	
*Cement, wallboard.....	Inf. L.....	Red.
Cesium 137 (see: "Radioactive materials, groups I and II")	Pois. D.....	Poison radioactive materials (red). Yellow.
*Charcoal, activated.....	Inf. S.....	
Charcoal briquets.....	Inf. S.....	
Charcoal screenings made from "pinon" wood.....	Inf. S.....	
Charcoal screenings, wet.....	Not permitted.....	
Charcoal, shell.....	Inf. S.....	
Charcoal, wet.....	Not permitted.....	
Charcoal, wood, crushed, granulated, ground or pulverized.....	Inf. S.....	Yellow.
Charcoal, wood, lump.....	Inf. S.....	
Charcoal, wood screenings, other than "pinon" wood screenings.....	Inf. S.....	Yellow.
Charged oil well jet perforating guns.....	Not permitted.....	
Chemical ammunition (containing class A poisonous gases or liquids).....	Pois. A.....	Poison gas.
Chemical ammunition (containing class B poisons, liquids or gases).....	Pois. B.....	Poison.
Chemical ammunition (containing class C poisons, liquids or solids).....	Pois. C.....	Tear gas.
Chemical ammunition, explosive (see: "Ammunition, chemical, explosive")		
*Chemical kits.....	Cor. L.....	
*Chemicals, N. O. S. (see: "Drugs, chemicals, medicines, or cosmetics, N. O. S.")		
Chloracetophenone, gas, liquid or solid.....	Pois. C.....	Tear gas.
Chloroacetyl chloride.....	Cor. L.....	White.
*Chlorate and borate mixtures.....	Oxy. M.....	Yellow.
*Chlorate and magnesium chloride mixtures.....	Oxy. M.....	Yellow.
Chlorate explosives, dry (see: "High explosives")		
Chlorate of potash (see: "Chlorates")	Oxy. M.....	Yellow.
Chlorate of soda (see: "Chlorates")	Oxy. M.....	Yellow.
Chlorate powders (see: "High explosives")		
Chlorates.....	Oxy. M.....	Yellow.
Chlorates, N. O. S. (see: "Chlorates")	Oxy. M.....	Yellow.
Chlorates, N. O. S., wet (see: "Chlorates, wet")	Oxy. M.....	Yellow.
Chlorates, wet.....	Oxy. M.....	Yellow.
Chlorobenzene (see: "Chlorobenzol")	Comb. L.....	
Chlorobenzol (see: "Chlorobenzol")	Comb. L.....	
Chloride of lime (see: "Bleaching powder")		
Chloride of phosphorus (see: "Phosphorus trichloride")	Cor. L.....	White.
Chloride of sulfur (see: "Sulfur chloride")	Cor. L.....	White.
Chlorinated lime (see: "Bleaching powder")	Haz.....	
Chlorine.....	Noninf. G.....	Green gas.
Chlorine, liquid, in bulk (see: § 146.24-80).		
Chlorine dioxide hydrate, frozen.....	Not permitted.....	
Chlorine trifluoride.....	Cor. L.....	White.
Chlorobenzene (see: "Chlorobenzol")	Comb. L.....	
Chlorobenzol.....	Comb. L.....	
Chlorobenzoyl peroxide (para), dry (see: "Organic peroxides")	Oxy. M.....	Yellow.
Chlorobenzoyl peroxide (para), wet (see: "Organic peroxides")	Oxy. M.....	Yellow.
Chlorodinitrobenzol (see: "Dinitrochlorbenzol, solid")		
Chloroform.....	Haz.....	
Chlorosulfonic acid.....	Cor. L.....	White.
Chlorosulfonic acid-sulfur trioxide mixture.....	Cor. L.....	White.
*Chloro-o-toluidine hydrochloride.....	Pois. B.....	Poison.
Chloropierin, absorbed.....	Pois. B.....	Poison.
Chloropierin and methyl chloride, mixtures.....	Pois. A.....	Poison gas.
Chloropierin and nonflammable, nonliquefied compressed gas mixtures (see: "Chloropierin and methyl chloride, mixtures")	Pois. A.....	Poison gas.
Chloropierin, liquid.....	Pois. B.....	Poison.
Chloropierin mixtures (containing no compressed gas or poisonous liquid, class A)	Pois. B.....	Poison.
Chromic acid.....	Oxy. M.....	Yellow.
Chromic acid solution.....	Cor. L.....	White.
Chromic anhydride (see: "Chromic acid")		
Chromium trioxide (see: "Chromic acid")		
Chromyl chloride.....	Cor. L.....	White.
Cigar and cigarette lighter fluid.....	Inf. L.....	Red.
Cigarette lighters charged with fuel (see: § 146.05-3 (d)).		
Cigarette loads (see: "Explosive auto alarms, etc.")	Expl. C.....	
*Cleaning fluid or liquid (see: "Compounds, cleaning liquid")	Comb. L.....	
*Cleaning fluid or liquid (see: "Compounds, cleaning liquid")	Inf. L.....	Red.
Cloud gas cylinders (see: "Chemical ammunition")		
Coal briquets, hot.....	Not permitted.....	
Coal facings.....	Inf. S.....	Yellow.
Coal gas (see: "Hydrocarbon gas, nonliquefied")		
Coal oil (export shipment only—see "Kerosene")	Comb. L.....	
*Coal tar distillate.....	Inf. L.....	Red.
*Coal tar distillate, N. O. S.....	Comb. L.....	
*Coal tar light oil.....	Comb. L.....	
*Coal tar light oil (see: "Benzine")	Inf. L.....	Red.

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Article	Classed as—	Label required
*Coal tar naphtha.....	Comb. L.	
*Coal tar naphtha.....	Inf. L.	Red.
*Coal tar oil.....	Comb. L.	
*Coal tar oil.....	Inf. L.	Red.
*Coating solution (see: "Cement, leather").....	Comb. L.	
*Coating solution (see: "Cement, leather").....	Inf. L.	Red.
Cobalt resinate, fused.....	No restrictions	
Cobalt, resinate, precipitated (see: "Calcium resinate").....	Inf. S.	Yellow.
Cobalt 60 (see: "Radioactive materials, groups I and II").....	Pol. D.	Poison radioactive materials (red), Poison
Cocculus, solid (fishberry).....	Pol. B.	
Coir (see: "Fibers").....		
Coke, hot.....	Not permitted	
Collodion.....	Inf. L.	Red.
Collodion cotton, wet (see: "Wet nitrocellulose").....		
Collodion cotton, wet with water (export shipments only) (see: "Wet nitrocellulose").....	Inf. S.	Yellow.
Cologne spirits (alcohol) (see: "Alcohol or alcohol, N. O. S.").....	Inf. L.	Red
Colored fire (see: "Fireworks, common").....		
Columbian spirits (wood alcohol) (see: "Alcohol or alcohol, N. O. S.").....	Inf. L.	Red
Combination fuzes (see: "Fuzes").....	Expl. C.	
Combination primers (see: "Primers").....	Expl. C.	
Combustible liquid, N. O. S.....	Comb. L.	
Commercial shaped charges (see: "High explosives").....		
Common fireworks (see: "Fireworks, common").....	Expl. C.	
*Compounds, cleaning, liquid.....	Comb. L.	
*Compounds, cleaning, liquid.....	Cor. L.	White.
*Compounds, cleaning, liquid.....	Inf. L.	Red.
*Compounds, cleaning, liquid (containing hydrochloric (muriatic) acid) (see: "Hydrochloric (muriatic) acid").....	Cor. L.	White.
*Compounds, cleaning, liquid (containing hydrofluoric acid).....	Cor. L.	White.
*Compounds, enamel (see: "Paint, enamel, etc.").....	Comb. L.	
*Compounds, enamel (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").....	Inf. L.	Red.
*Compounds, iron or steel rust preventing or removing.....	Cor. L.	White.
*Compounds, lacquer, paint or varnish, etc., removing, reducing, or thinning.....	Comb. L.	
*Compounds, lacquer, paint or varnish, etc., removing, reducing, or thinning, liquid.....	Inf. L.	Red.
*Compounds, lacquer, paint or varnish removing, liquid.....	Comb. L.	
*Compounds, lacquer, paint or varnish removing, liquid.....	Cor. L.	White.
*Compounds, lacquer, paint or varnish thinning, liquid.....	Comb. L.	
*Compounds, polishing, liquid (see: "Polishes, metal, etc.").....	Comb. L.	
*Compounds, polishing, liquid (see: "Polishes, metal, etc.").....	Inf. L.	Red.
*Compounds, tree or weed killing, liquid.....	Comb. L.	
*Compounds, tree or weed killing, liquid.....	Inf. L.	Red.
*Compounds, tree or weed killing, liquid.....	Pol. B.	Poison.
*Compounds, tree or weed killing, solid.....	Oxy. M.	Yellow.
*Compounds, type cleaning, liquid (see: "Compounds, cleaning, liquid").....	Comb. L.	
*Compounds, type cleaning, liquid (see: "Compounds, cleaning, liquid").....	Inf. L.	Red.
*Compounds, vulcanizing, liquid (see: "Compounds, cleaning, liquid").....	Comb. L.	
*Compounds, vulcanizing, liquid.....	Cor. L.	White.
*Compounds, vulcanizing, liquid (see: "Compounds, cleaning, liquid").....	Inf. L.	Red.
Compressed gases, N. O. S.....	Inf. G. or Noninf. G.	Red or green gas.
Containers, empty (see: "Bottles, empty", "Carboys, empty", or "Drums, empty").....		
Copper acetoarsenite, solid.....	Pol. B.	Poison.
Copper arsenite, solid (Scheele's green, cupric green, copper orthoarsenite, Swedish green).....	Pol. B.	Poison.
Copper cyanide (see: "Cyanide of copper").....	No restrictions	
Copra.....	Haz.	
Cordeau detonant fuse.....	Expl. C.	
Corrosive battery fluid (see: "Electrolyte acid or alkaline battery fluid").....	Cor. L.	White.
Corrosive liquid, N. O. S.....	Cor. L.	White.
Cotton.....	Haz.	
Cotton batting.....	Haz.	
Cotton batting dross.....	Haz.	
Cotton, burnt (not repicked) (see: "Burnt cotton (not repicked)").....	Inf. S.	Yellow.
Cotton seed hull fiber or shavings, pulp or cut linters.....	Haz.	
Cotton sweepings (see: "Cotton waste").....	Haz.	
Cotton wadding.....	Haz.	
Cotton waste.....	Haz.	
Cotton waste, oily with more than 5 percent animal or vegetable oil.....	Inf. S.	Yellow.
*Creosote, coal tar.....	Comb. L.	
Creosote oil (see: "Creosote, coal tar").....		
Crotonaldehyde.....	Inf. L.	Red.
*Crude nitrogen fertilizer solution.....	Noninf. G.	
*Crude oil, petroleum.....	Comb. L.	Green gas.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
*Crude oil, petroleum	Inf. L.	Red.
Cumene hydroperoxide (see: "Organic peroxides")	Oxy. M.	Yellow.
Cupriethylene-diamine solution	Cor. L.	White.
Cyanide of calcium, solid	Pois. B.	Poison.
Cyanide of calcium mixtures, solid	Pois. B.	Poison.
Cyanide of copper	No restrictions	
Cyanide of lead	No restrictions	
Cyanide of potassium, liquid	Pois. B.	Poison.
Cyanide of potassium, solid	Pois. B.	Poison.
Cyanide of silver	No restrictions	
Cyanide of sodium, liquid	Pois. B.	Poison.
Cyanide of sodium, solid	Pois. B.	Poison.
Cyanide of zinc	No restrictions	
Cyanides or cyanide mixtures, dry	Pois. B.	Poison.
Cyanogen bromide	Pois. B.	Poison.
Cyanogen chloride containing less than 0.9 percent water	Pois. A.	Poison gas.
Cyanogen gas	Pois. A.	Poison gas.
Cyclohexane	Inf. L.	Red.
Cyclohexanone peroxide not over 50% concentration (see: "Organic peroxides")	Oxy. M.	Yellow.
Cyclohexanone peroxide over 50% concentration but not exceeding 85% concentration, dry (see: "Organic peroxides")	Oxy. M.	Yellow.
Cyclohexanone peroxide over 50% concentration but not exceeding 85% concentration, wet (see: "Organic peroxides")	Oxy. M.	Yellow.
Cyclohexenyl trichlorosilane	Cor. L.	White.
Cyclohexyltrichlorosilane	Cor. L.	White.
Cyclopentane	Inf. L.	Red.
Cyclopentane, methyl	Inf. L.	Red.
Cyclopropane	Inf. G.	Red gas.
Cyclotrimethylenetrinitramine, desensitized. (see: "High explosives")		
Cyclotrimethylenetrinitramine, wet with not less than 10% of water (see: "High explosives")		
Cylinders, empty	Haz.	
Dead oil (see: "Creosote, coal tar")		
Decaborane	Inf. S.	Yellow.
*Decahydronaphthalene	Comb. L.	
Decalin (see: "Decahydronaphthalene")		
Delay electric igniters (see: "Igniters")	Expl. C.	
Denatured alcohol (see: Alcohol, N. O. S.)	Inf. L.	Red.
Depth bombs (see: "Explosive bombs")		
Detonating fuze parts containing an explosive (see: "Initiating or priming explosives")	Expl. A.	
Detonating fuzes, class A explosives (see: "Initiating or priming explosives")	Expl. A.	
Detonating fuzes, class A explosives, with or without radioactive components (see: "Initiating or priming explosives")	Expl. A.	
Detonating fuzes, class C explosives	Expl. C.	
Detonating primers (see: "Initiating or priming explosives")	Expl. A.	
Diazodinitrophenol (see: "Initiating or priming explosives")		
Dichloroethylene (see: "Ethylene dichloride")	Inf. L.	Red.
Dichlorodifluoromethane	Noninf. G.	Green gas.
Dichlorodifluoromethane and difluoroethane mixture (constant boiling mixture)	Noninf. G.	Green gas.
Dichlorodifluoromethane-dichlorotetrafluoroethane mixture	Noninf. G.	Green gas.
Dichlorodifluoromethane-monochlorodifluoromethane mixture	Noninf. G.	Green gas.
Dichlorodifluoromethane-monofluorotrichloromethane mixture	Noninf. G.	Green gas.
Dichlorodifluoromethane-trichloromonofluoromethane-monochlorodifluoromethane mixture	Noninf. G.	Green gas.
Dichlorodifluoromethane-trichlorotrifluoroethane mixture	Noninf. G.	Green gas.
Dichloropentane	Comb. L.	
Dichloroisocyanuric acid, dry, containing more than 39% available chlorine	Oxy. M.	Yellow.
Dicumyl peroxide, solid (see: oxydizing materials, N.O.S.)	Oxy. M.	Yellow.
Dicumyl peroxide, 50 percent solution (see: "Organic peroxides")	Oxy. M.	Yellow.
Diethyl aluminum chloride (see: "Pyroforic liquids, N.O.S.")		
Diethyl "cellosolve" (see: "Ethylene glycol diethyl ether")		
Diethyl dichlorosilane	Cor. L.	White.
Diethyl magnesium (see: "Pyroforic liquids, N.O.S.")		
Diethylamine	Inf. L.	Red.
Diethylene glycol dinitrate	Prohibited	
Difluoroethane (ethylene fluoride)	Inf. G.	Red gas.
Difluoromonochloroethane	Inf. G.	Red gas.
Diphosphoric acid, anhydrous	Cor. L.	White.
Diisobutyl ketone	Comb. L.	
*Diisooctyl acid phosphate	Cor. L.	White.
Diisopropylbenzene hydroperoxide (see: "Organic peroxides")	Oxy. M.	Yellow.
Dimethoxy strychnine (see: "Brucine, solid")		
Dimethyl dichlorosilane (see: "Ethyl trichlorosilane")	Inf. L.	Red.
Dimethyl ether	Inf. G.	Red gas.
Dimethyl magnesium (see: "Pyroforic liquids, N.O.S.")		
Dimethyl sulfate	Cor. L.	White.
Dimethyl sulfide	Inf. L.	Red.
Dimethyl Zinc (see: "Pyroforic liquids, N.O.S.")		
Dimethylamine, anhydrous	Inf. G.	Red gas.
Dimethylamine, aqueous solution	Inf. L.	Red.
Dimethylarsenic acid, solid (see: "Cacodylic acid, solid")		
Dimethylxane dihydroperoxide, dry (see: "Organic peroxides")	Oxy. M.	Yellow.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Dimethylhexane dihydroperoxide, wet ( <i>wet with at least 30 percent of water by weight</i> ) (see: "Organic peroxides").	Oxy. N.	Yellow.
Dimethylhydrazine unsymmetrical (see: "Methylhydrazine").	Inf. L.	Red.
Dinitrobenzol, liquid.	Polis. B.	Poison.
Dinitrobenzol, solid.	Polis. B.	Poison.
Dinitrochlorbenzol, solid ( <i>dinitrochlorbenzene, chlorodinitrobenzol</i> ).	Polis. B.	Poison.
Dinitrophenol solutions.	Polis. B.	Poison.
Dinitrotoluene, liquid ( <i>dinitrotoluol, liquid</i> ).	Comb. L.	
<i>Dinitrotoluol, liquid</i> (see: "Dinitrotoluene, liquid").		
Diphenyl dichlorosilane.	Cor. L.	White.
Diphenylaminechlorarsine gas, liquid or solid.	Polis. C.	Tear gas.
Diphenylchlorarsine, solid.	Polis. C.	Tear gas.
Diphosgene (see: "Phosgene").	Polis. A.	Poison gas.
*Disinfectant liquid.	Comb. L.	
Dodecyltrichlorosilane.	Cor. L.	White.
*Dressing, leather (see: "Leather dressing").	Comb. L.	
*Dressing, leather (see: "Paint, enamel, etc.").	Inf. L.	Red.
*Driers, paint, varnish, enamel, etc. (see: "Paint, enamel, etc.").	Comb. L.	
*Driers, paint, varnish, enamel, etc. (see: "Paint, enamel, etc.").	Inf. L.	Red.
<i>Drill cartridges</i> (see: "Ammunition for cannon, nonexplosive").		
*Drugs, chemicals, medicines, or cosmetics, N. O. S.	Comb. L.	
*Drugs, chemicals, medicines, or cosmetics, N. O. S. (limited quantity).	Comb. L.	
*Drugs, chemicals, medicines, or cosmetics, N. O. S.	Cor. L.	White.
*Drugs, chemicals, medicines, or cosmetics, N. O. S.	Inf. L.	Red.
*Drugs, chemicals, medicines, or cosmetics, N. O. S. (limited quantity).	Inf. L.	Red.
*Drugs, chemicals, medicines, or cosmetics, N. O. S.	Inf. S. or Ory. M.	Yellow.
*Drugs, chemicals, medicines, or cosmetics, N. O. S. (liquid).	Polis. B.	Poison.
*Drugs, chemicals, medicines, or cosmetics, N. O. S. (solid).	Polis. B.	Poison.
*Drums, empty.	Haz.	
<i>Dummy cartridges</i> (see: "Ammunition for cannon, nonexplosive").		
<i>Dynamite</i> (see: "High explosives").		
Electric blasting caps—more than 1,000 (see: "Initiating or priming explosives").	Expl. A.	
Electric blasting caps—1,000 or less (see: "Blasting caps").		
Electric squibs (see: "Igniters").	Expl. C.	
Electric storage batteries, wet (see: "Batteries, electric storage, wet").		
Electrolyte (acid) or corrosive battery fluid.	Cor. L.	White.
Electrolyte (acid) or alkaline corrosive battery fluid packed with battery charger, radiocurrent supply device, or electronic equipment and actuating devices.	Cor. L.	White.
Electrolyte (acid) or alkaline corrosive battery fluid packed with storage batteries.	Cor. L.	White.
Empty cartridge bags—black powder igniters (see: "Igniters").	Expl. C.	
Empty cartridge cases, primed (see: "Primers").	Expl. C.	
*Enamel (see: "Paint, enamel, etc.").	Comb. L.	
*Enamel (see: "Paint, enamel, etc.").	Inf. L.	
Engine starting fluid.	Inf. G.	Red gas.
<i>Engines, internal combustion</i> (see: "Automobiles, motorcycles, tractors, or other self-propelled vehicles, etc.").		
*Eradicators, paint or grease, liquid (see: "Compounds, cleaning, liquid").	Comb. L.	
*Eradicators, paint or grease, liquid (see: "Compounds, cleaning, liquid").	Inf. L.	Red.
Essence (export only) (see: "Gasoline").	Inf. L.	Red.
Etching acid liquid, N. O. S.	Cor. L.	White.
Ethane.	Inf. G.	Red gas.
Ether.	Inf. L.	Red.
Ether, ethyl ( <i>sulphuric</i> ) (see: "Ether").	Inf. L.	Red.
Ethyl acetate.	Inf. L.	Red.
Ethyl alcohol (see: Alcohol, N. O. S.).	Inf. L.	Red.
<i>Ethyl aldehyde</i> (see: "Acetaldehyde").	Inf. L.	Red.
<i>Ethyl aluminum dichloride</i> (see: "Pyroforic liquids, N. O. S.").		
<i>Ethyl aluminum sesquichloride</i> (see: "Pyroforic liquids, N. O. S.").		
Ethyl benzene.	Comb. L.	
Ethyl butyl acetate.	Comb. L.	
Ethyl butyrate.	Comb. L.	
Ethyl chloride.	Inf. L.	Red.
Ethyl chloroacetate.	Comb. L.	
Ethyl chlorocarbonate (see: "Ethyl chloroformate").		
Ethyl chloroformate (Ethyl chlorocarbonate).	Cor. L.	White.
Ethyl dichlorosilane.	Inf. L.	Red.
Ethyl formate.	Inf. L.	Red.
Ethyl lactate.	Comb. L.	
Ethyl mercaptan (see "Mercaptans").	Inf. L.	Red.
Ethyl methyl ether.	Inf. L.	Red.
Ethyl methyl ketone.	Inf. L.	Red.
Ethyl nitrate ( <i>nitric ether</i> ).	Inf. L.	Red.
Ethyl nitrite ( <i>nitrous ether</i> ).	Inf. L.	Red.
Ethyl phenyl dichlorosilane.	Cor. L.	White.
Ethyl silicate.	Comb. L.	
Ethyl trichlorosilane.	Inf. L.	Red.
Ethyl dichloroarsine.	Polis. A.	Poison gas.

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Article	Classed as—	Label required <sup>1</sup>
Ethylene.....	Inf. G.....	Red gas.
Ethylene chlorhydrin.....	Comb. L.....	
Ethylene dichloride.....	Inf. L.....	Red.
Ethylene glycol diethyl ether ( <i>diethyl "Cellulosolve"</i> ).....	Comb. L.....	
Ethylene glycol monoethyl ether ( <i>"Cellulosolve"</i> ).....	Comb. L.....	
Ethylene glycol monoethyl ether acetate ( <i>"Cellulosolve" acetate</i> ).....	Comb. L.....	
Ethylene glycol monomethyl ether ( <i>methyl "Cellulosolve"</i> ).....	Comb. L.....	
Ethylene glycol monomethyl ether acetate ( <i>methyl "Cellulosolve" acetate</i> ).....	Comb. L.....	
Ethylene imine, inhibited.....	Inf. L.....	Red.
Ethylene oxide.....	Inf. L.....	Red.
Ethylaldehyde.....	Comb. L.....	
Excelsior ( <i>shredded wood</i> ).....	Haz.....	
Explosive auto alarms.....	Expl. C.....	
Explosive bombs (see: " <i>Ammunition—projectiles, grenades, bombs, mines, etc.</i> ").....	Expl. A.....	
Explosive cable cutters.....	Expl. C.....	
Explosive compositions containing an ammonium salt and a chlorate.....	Prohibited.....	
Explosive compositions that ignite spontaneously.....	Prohibited.....	
Explosive compositions that undergo marked decomposition when subjected for 48 consecutive hours to a temperature of 167° F.....	Prohibited.....	
Explosive hand grenades (see: " <i>Ammunition—projectiles, grenades, etc.</i> ").....	Expl. A.....	
Explosive mines (see: " <i>Ammunition—projectiles, grenades, bombs, mines, etc.</i> ").....	Expl. A.....	
Explosive power device, Class B.....	Expl. B.....	
Explosive power device, Class C (see: Explosive cable cutters).....	Expl. C.....	
Explosive projectiles (see: " <i>Ammunition—projectiles, grenades, etc.</i> ").....	Expl. A.....	
Explosive release devices (see: " <i>Explosive cable cutters</i> ").....	Expl. C.....	
Explosive rifle grenades (see: " <i>Ammunition—projectiles, grenades, etc.</i> ").....	Expl. A.....	
Explosive rivets.....	Expl. C.....	
Explosive torpedoes (see: " <i>Ammunition—projectiles, grenades, bombs, mines and torpedoes</i> ").....	Expl. A.....	
Explosives, samples of (see: § 146.20-13).....		
*Extracts, liquid flavoring.....	Comb. L.....	
*Extracts, liquid flavoring (see: " <i>Alcohol or alcohol, N. O. S.</i> ").....	Inf. L.....	Red.
Fabrics or fibers with animal or vegetable oil (see: " <i>Cotton waste, oily</i> ").....	Inf. S.....	Yellow.
Feed, wet, mixed.....	Haz.....	
Felt waste (see: " <i>Cotton waste</i> ").....	Haz.....	
Felt waste, wet (see: " <i>Rags, wet</i> ").....	Inf. S.....	Yellow.
Ferric arsenate, solid.....	Pois. B.....	Poison.
Ferric arsenite, solid.....	Pois. B.....	Poison.
Ferrophosphorus.....	Haz.....	
Ferrophosphorus briquets.....	No restrictions.....	
Ferrosilicon.....	Haz.....	
Ferrosilicon briquets.....	Haz.....	
Ferrosilicon, containing between 45 percent and 48 percent or containing between 65 percent and 70 percent silicon.....	Haz.....	
Ferrosilicon, containing between 48 percent and 65 percent silicon.....	Haz.....	
Ferrosilicon, containing less than 45 percent or more than 70 percent silicon.....	Haz.....	
Ferrous arsenate (iron arsenate), solid.....	Pois. B.....	
*Fertilizer ammoniating solution, containing free ammonia.....	Noninf. G.....	Green gas.
Fertilizer, tankage (see: " <i>Tankages</i> ").....	Inf. S.....	Yellow.
Fibers, burnt.....	Inf. S.....	Yellow.
Fibers ( <i>jute, hemp, flax, sisal, coir, kapok, and similar vegetable fibers</i> ).....	Haz.....	
Fibers or fabrics, with animal or vegetable oil (see: " <i>Cotton waste, oily</i> ").....	Inf. S.....	Yellow.
Film, motion-picture (see: " <i>Motion-picture film etc.</i> ").....		
Film support ( <i>nitrocellulose base</i> ) (see: " <i>Pryoxlyl plastics, rods, rolls, sheets or tubes</i> ").....	Inf. S.....	Yellow.
Fire extinguisher charges.....	Cor. L.....	White.
Fire extinguisher charges containing not to exceed 50 grains of propellant explosives per unit (see: § 146.20-9 (e)).....		
Fire extinguishers.....	Noninf. G.....	Green gas.
Firecracker salutes (see: " <i>Fireworks, common</i> " or " <i>Fireworks, special</i> ").....		
Firecrackers (see: " <i>Fireworks, common</i> " or " <i>Fireworks, special</i> ").....		
Fireworks, common.....	Expl. C.....	
Fireworks (except those otherwise described herein for which special packing requirements are given) (see: " <i>Fireworks, special</i> ").....	Expl. B.....	
Fireworks, exhibition display pieces (see: " <i>Fireworks, special</i> ").....		
Fireworks not permitted (see: " <i>Fireworks forbidden</i> ").....		
Fireworks, special ( <i>flash cartridges consisting of a paper cartridge shell, small arms primer and flash composition not exceeding 180 grains each, all assembled in one piece ready for firing</i> ).....	Expl. B.....	Special fireworks.
Fireworks, special ( <i>flash or spreader cartridges not exceeding 72 grains of flash powder each</i> ).....	Expl. B.....	Special fireworks.
Fireworks, special ( <i>flash sheets</i> ).....	Expl. B.....	Special fireworks.
Fireworks, special ( <i>photographic flash powder</i> ).....	Expl. B.....	Special fireworks.
Fireworks, special ( <i>special fireworks</i> ).....	Expl. B.....	Special fireworks.
Fireworks, special ( <i>toy torpedoes</i> ).....	Expl. B.....	Special fireworks.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Fish meal (see: "Fish scrap or fish meal")	Inf. S.	Yellow.
Fish scrap, or fish meal (containing at least 6 percent and not more than 18 percent moisture)	Haz.	
Fish scrap or fish meal (containing less than 6 percent or more than 18 percent moisture)	Inf. S.	Yellow.
Fish scrap, wet acidulated	Haz.	
*Flame retardant compound, liquid	Cor. L.	White.
Flammable liquids, N. O. S. (see: "Inflammable liquids, N. O. S.")	Inf. L.	Red.
Flammable solids, N. O. S. (see: "Inflammable solids, N. O. S.")	Inf. S.	Yellow
Flares and signalling devices	Expl. C.	
Flares (see: "Fireworks, common" or "Fireworks, special")		
Flares, aeroplane (see: "Fireworks, special")		
Flash cartridges (see: "Fireworks, special" or "Low explosives")		
Flash crackers (see: "Fireworks, common" or "Fireworks, special")		
Flash powder (see: "Fireworks, special" or "Low explosives")		
Flash sheets (see: "Fireworks, special" or "Low explosives")		
Flax (see: "Fibers")		
Flexible linear shaped charges, metal clad	Expl. C.	
Flowers of sulfur (see: "Sulfur")	Haz.	
Flue dust, poisonous (see: "Insecticide, dry")	Polis. B.	Poison.
Fluorine	Inf. G.	Red gas.
Fluosulfonic acid	Cor. L.	White.
Formaldehyde	Comb. L.	
Formalin (see: "Formaldehyde")		
Formic acid	Cor. L.	White.
Formic acid, solution	Cor. L.	White.
*Fuel oil	Comb. L.	
Fuel oil, C. S. No. 1	Comb. L.	
Fuel oil, C. S. No. 2	Comb. L.	
Fuel oil, C. S. No. 4	Comb. L.	
Fuel oil, C. S. No. 5	Comb. L.	
Fulminate of mercury, dry	Prohibited	
Fulminate of mercury, wet (see: "Initiating or priming explosives")		
*Furfural	Comb. L.	
*Furniture or wood stain, liquid (see: "Paint, enamel, etc.")	Comb. L.	
*Furniture or wood stain, liquid (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Furniture polish (see: "Polishes, metal, etc.")	Comb. L.	
*Furniture polish (see: "Polishes, metal, etc.")	Inf. L.	
Fuse igniters (see: "Igniters")	Expl. C.	
Fuse, instantaneous (see: "Instantaneous fuse")		
Fuse lighters (see: "Igniters")	Expl. C.	
Fuse, mild detonating metal clad (see: Mild detonating fuse, metal clad)	Expl. C.	
Fuse, safety (see: "Safety fuse")		
Fusees (see: "Railway fusees" or "Highway fusees")		
Fusel oil	Comb. L.	
Fuzes	Expl. C.	
Fuzes, combination (see: "Fuzes")	Expl. C.	
Fuzes, detonating, class A explosives (see: "Initiating or priming explosives")	Expl. A.	
Fuzes, detonating, class A explosive, radioactive (see: "Initiating or priming explosives")	Expl. A.	
Fuzes, detonating, class C explosives	Expl. C.	
Fuzes, percussion (see: "Fuzes")	Expl. C.	
Fuzes, time (see: "Fuzes")	Expl. C.	
Fuzes, tracer (see: "Fuzes")	Expl. C.	
Garbage tankage (containing 8 percent or more moisture) (see: "Tank-ages")	Haz.	
Garbage tankage (containing less than 8 percent moisture) (see: "Tank-ages")	Inf. S.	Yellow
*Gas drips, hydrocarbon	Comb. L.	
*Gas drips, hydrocarbon	Inf. L.	Red.
*Gas identification sets	Polis. A.	Poison gas.
Gas oil (see: "Fuel oil")	Comb. L.	
Gasoline	Inf. L.	Red.
Gazolina (export only) (see: "Gasoline")	Inf. L.	Red.
Gazoline (export only) (see: "Gasoline")	Inf. L.	Red.
Gelatin dynamite (see: "High explosives")		
Gold 198 (see: "Radioactive materials, groups I and II")	Polis. D.	Poison radio- active materials (red).
*Gold paint (see: "Paint, enamel, etc.")	Comb. L.	
*Gold paint (see: "Paint, enamel, etc.")	Inf. L.	Red.
Grenades, empty, primed (see: "Primers")	Expl. C.	
Grenades, hand, explosive (see: "Explosive hand grenades")		
Grenades, hand or rifle, explosive, with gas, smoke, or incendiary material (see: "Explosive hand or rifle grenades")		
Grenades, hand or rifle, with gas, smoke, or incendiary material but without bursting charges (see: "Chemical ammunition, class A or B poison" or "Fireworks, special")		
Grenades, rifle, explosive (see: "Explosive rifle grenades")		
Grenades, tear gas (see: "Tear gas grenades")		
Ground bituminous coal (see: "Coal facings")	Inf. S.	Yellow.

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Article	Classed as—	Label required <sup>1</sup>
Guanidine nitrate (see: "Nitrates")	Ory. M.	Yellow.
Guanyl nitrosamino guanyl tetrazene (see: "Initiating or priming explosives")		
Guanyl nitrosamino guanylidene hydrazine (see: "Initiating or priming explosives")		
Guided missiles with war heads (see: "Explosive projectiles").		
Guided missiles without war heads (see: "Propellant explosives, class B").		
Guncotton (see: "High explosives").		
Hafnium metal, dry (mechanically produced, finer than 270 mesh particle size).	Inf. S.	Yellow.
Hafnium metal, dry (chemically produced, finer than 20 mesh particle size).	Inf. S.	Yellow.
hafnium metal, wet (mechanically produced, finer than 270 mesh particle size).	Inf. S.	Yellow.
hafnium metal, wet (chemically produced, finer than 20 mesh particle size).	Inf. S.	Yellow.
Hair, wet.	Inf. S.	Yellow.
Hand grenades (see: "Ammunition—projectiles, grenades, etc.")	Expl. A.	
Hand ship distress signals (see: "Fireworks, common").		
Hand signal devices (see: "Flares and signalling devices")	Expl. C.	
Haz.	Haz.	
Hay or straw (loose, wet or damp).	Not permitted.	
Helium.	Noninf. G.	Green gas.
Helium-oxygen mixture.	Noninf. G.	Green gas.
Hemp (see: "Fibers")	Haz.	
Heptane.	Inf. L.	Red.
Hessian (see: "Burlap cloth").		
Hexachloroethane.	Haz.	
Hexadecyltrichlorosilane.	Cor. L.	White.
Hexaethyl tetraphosphate and compressed gas mixtures.	Pois. A.	Poison gas.
Hexaethyl tetraphosphate, liquid (see: "Tetraethyl pyrophosphate, liquid").	Pois. B.	Poison.
Hexaethyl tetraphosphate, mixture, dry (see: "Tetraethyl pyrophosphate, mixture, dry").	Pois. B.	Poison.
Hexaethyl tetraphosphate, mixture, liquid (see: "Tetraethyl pyrophosphate, liquid").	Pois. B.	Poison.
Hexafluoropropylene.	Noninf. G.	Green gas.
Hexafluorophosphoric acid (see: "Difluorophosphoric acid, anhydrous").	Cor. L.	White.
Hexaldehyde.	Comb. L.	
Hexamethylene diamine solution.	Cor. L.	White.
Hexane.	Inf. L.	Red.
Hexyl trichlorosilane.	Cor. L.	White.
High explosives.	Expl. A.	
High explosives (containing no liquid explosive ingredient).	Expl. A.	
High explosives (containing no liquid explosive ingredient nor any chlorate).	Expl. A.	
High explosives (fireworks that can be exploded en masse).	Expl. A.	
High explosives (in dry condition).	Expl. A.	
High explosives, liquid (see: "High explosives").	Not permitted.	
High explosives (nitrocellulose—guncotton and negative cotton—when shipped in dry condition).	Expl. A.	
High explosives (nitrostarch when shipped in dry condition).	Expl. A.	
High explosives (propellant explosives, class A explosives) (see: "Propellant explosives, class A explosives").	Expl. A.	
High explosives (wet with not less than 10 pounds of water to each 90 pounds of dry material).	Expl. A.	
High explosives (when containing more than 75 percent liquid explosive ingredient, except blasting gelatin and gelatin dynamite).	Expl. A.	
High explosives (when containing not more than 75 percent liquid explosive ingredient).	Expl. A.	
High explosives (when containing 10 percent or less of a liquid explosive ingredient).	Expl. A.	
*High wines (see: "Alcohol or alcohol, N. O. S.").		
Highway fuses.	Expl. C.	
Hydraulic accumulators (pressurized with noninflammable, nontoxic compressed gas).	Noninf. G.	Green gas.
Hydrazine, anhydrous.	Cor. L.	White.
Hydrazine solution containing 50 percent or less of water.	Cor. L.	White.
Hydriodic acid.	Cor. L.	White.
Hydrobromic acid.	Cor. L.	White.
Hydrobromic acid, anhydrous (see: "Hydrogen bromide").	Noninf. G.	Green gas.
Hydrocarbon gas, liquefied.	Inf. G.	Red gas.
Hydrocarbon gas, nonliquefied.	Inf. G.	Red gas.
Hydrochloric acid, anhydrous (see: "Hydrogen chloride").		
Hydrochloric acid, in bulk (see: § 146.23-50).		
Hydrochloric acid mixtures.	Cor. L.	White.
Hydrochloric acid solution, inhibited.	Cor. L.	White.
Hydrochloric (muriatic) acid.	Cor. L.	White.
Hydrocyanic acid, liquefied.	Pois. A.	Poison gas.
Hydrocyanic acid (prussic), liquid.	Pois. A.	Poison gas.
Hydrocyanic acid (prussic), unstabilized.	Not permitted.	
Hydrocyanic acid solutions.	Pois. B.	Poison

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Hydrofluoric acid.....	Cor. L.....	White.
Hydrofluoric acid, anhydrous.....	Cor. L.....	White.
Hydrofluoric and sulfuric acids, mixtures.....	Cor. L.....	White.
Hydrofluosilicic acid.....	Cor. L.....	White.
Hydrogen.....	Inf. G.....	Red gas.
Hydrogen bromide.....	Noninf. G.....	Green gas
Hydrogen chloride.....	Noninf. G.....	Green gas
Hydrogen, liquefied.....	Not permitted.....	
Hydrogen peroxide (hydrogen dioxide) solution in water containing over 8 percent hydrogen peroxide by weight).....	Cor. L.....	White.
Hydrogen sulfide.....	Inf. G.....	Red gas.
Hypochlorite solutions containing more than 7 percent available chlorine by weight.....	Cor. L.....	White.
Igniter cord.....	Expl. C.....	
Igniter fuse—metal clad (see: Igniters).....	Expl. C.....	
Igniters.....	Expl. C.....	
Igniters, jet thrust (jato) class A explosives (see: "Jet thrust unit (jato), class A explosives").....	Expl. A.....	
Igniters, jet thrust (jato) class B explosives (see: "Jet thrust unit (jato), class B explosives").....	Expl. B.....	
Illuminating projectiles, used or not fuzed, with expelling charge (see: "Fireworks, special").....		
Illuminating torches (see: "Fireworks, common").....		
Inflammable liquids, N. O. S.....	Inf. L.....	Red.
Inflammable solids, N. O. S.....	Inf. S.....	Yellow.
Initiating explosives (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (diazodinitrophenol wet with not less than 40 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (guanyl nitrosamino guanylidene hydrazine wet with not less than 50 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (in bulk in dry condition).....	Prohibited.....	
Initiating explosives (lead azide, dextrinated type only, wet with not less than 20 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (lead mononitroresorcinate, wet with not less than 40 percent by weight of water).....	Expl. A.....	
Initiating explosives (lead styphnate, lead trinitroresorcinate—wet with not less than 20 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (nitromannite wet with not less than 40 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (nitroguanidine wet with not less than 10 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (pentaerythrite tetranitrate wet with not less than 40 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating explosives (tetrazene (guanyl nitrosamino guanyl tetrazene) wet with not less than 30 percent by weight of water) (see: "Initiating or priming explosives").....	Expl. A.....	
Initiating or priming explosives.....	Expl. A.....	
*Ink.....	Comb. L.....	
*Ink.....	Inf. L.....	Red.
*Insecticide, dry.....	Polis. B.....	Poison.
*Insecticide, liquefied gas.....	Noninf. G.....	Green gas.
*Insecticide, liquid.....	Polis. B.....	Poison.
*Insecticide, liquid (vermin exterminator).....	Comb. L.....	
*Insecticide, liquid (vermin exterminator).....	Inf. L.....	Red.
Instantaneous fuse.....	Expl. C.....	
Insulation tape (varnished cloth type) (see: "Oiled textiles").....	Haz.....	
Iodine monochloride.....	Cor. L.....	White.
Iridium 192 (see: "Radioactive materials, groups I and II).....	Polis. D.....	Poison radioactive materials (red).
Iron arsenate, solid (see: "Ferrous or ferric arsenate, solid").....		
Iron mass, spent.....	Inf. S.....	Yellow.
Iron mass, wet.....	Haz.....	
Iron oxide, wet.....	Haz.....	
Iron sponge, not properly oxidized.....	Inf. S.....	Yellow.
Iron sponge, spent.....	Inf. S.....	Yellow.
Iron sponge, wet.....	Haz.....	
Isobutane (see: "Liquefied petroleum gas").....		
Isobutylene (see: "Liquefied petroleum gas").....		
Isocetane.....	Inf. L.....	Red.
Isocetene.....	Inf. L.....	Red.
Isopentane.....	Inf. L.....	Red.
Isoprene.....	Inf. L.....	Red.
*Isopropanol (see: Alcohol, N. O. S.).....	Comb. L.....	
*Isopropanol (see: Alcohol, N. O. S.).....	Inf. L.....	Red.
Isopropyl acetate.....	Inf. L.....	Red.
Isopropyl mercaptan (see: "Mercaptans").....	Inf. L.....	Red.
Isopropyl percarbonate, stabilized.....	Not permitted.....	
Isopropyl percarbonate, unstabilized.....	Not permitted.....	
Jet thrust igniters (see: "Igniters, jet thrust").....		
Jet thrust unit (jato) class A explosives.....	Expl. A.....	

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Jet thrust unit (Jato) class B explosives	Expl. B	
<i>Jute</i> (see: "Fibers").		
<i>Jute, wet</i> (see: "Rags, wet").		
<i>Kapok</i> (see: "Fibers").		
Kerosene (coal oil)	Comb. L.	
Kerosene (export shipment only—see "Kerosene")	Comb. L.	
*Lacquer (see: "Paint, enamel, etc.")	Comb. L.	
*Lacquer (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Lacquer base, liquid (see: "Paint, enamel, etc.")	Comb. L.	
*Lacquer base, liquid (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Lacquer base, or lacquer chips, dry, nitrocellulose base	Inf. S.	Yellow.
*Lacquer base or lacquer chips, plastic (wet with alcohol or solvent)	Comb. L.	
*Lacquer base or lacquer chips, plastic (wet with alcohol or solvent)	Inf. L.	Red.
*Lacquer removing, reducing and thinning compounds (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid")	Comb. L.	
*Lacquer removing, reducing and thinning compounds (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid")	Inf. L.	Red.
Lauroyl peroxide, dry (see: "Organic peroxides")	Ory. M.	Yellow.
Lauroyl peroxide, wet (when wet with not less than 30 percent by weight of water). (see: "Organic peroxides")	Ory. M.	Yellow
Lead arsenate, solid	Pois. B.	Poison.
Lead arsenite, solid	Pois. B.	Poison.
Lead azide (see: "Initiating or priming explosives").		
Lead cyanide (see: Cyanide of Lead)	No restrictions.	
Lead dross	Haz	
Lead mononitrosorensinate (see: "Initiating or priming explosives").		
Lead nitrate (see: "Nitrates")	Ory. M.	Yellow.
Lead scrap	Haz	
Lead stypnate (lead trinitrosorensinate) (see: "Initiating or priming explosives").		
*Leather bleach	Comb. L.	
*Leather bleach (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Leather dressing	Comb. L.	
*Leather dressing (see: "Paint, enamel, etc.")	Inf. L.	Red.
Lewisite	Pois. A.	Poison gas.
Lighter fluid (see: Cigar and cigarette lighter fluid)	Inf. L.	Red.
Lime-nitrogen (see: "Calcium cyanamide, not hydrated").		
Lime, unslaked	Haz	
Liquefied carbon dioxide gas (mining device) (see: "Carbon dioxide gas, liquefied (mining device)").	Noninf. G.	Green gas.
Liquefied hydrocarbon gas (see: "Hydrocarbon gas, liquefied")	Inf. G.	Red gas.
Liquefied noninflammable (nonflammable) gases charged with nitrogen, carbon dioxide or air.	Noninf. G.	Green gas.
Liquefied petroleum gas	Inf. G.	Red gas.
Liquids other than those classified as inflammable, corrosive or poisonous, charged with nitrogen, carbon dioxide or air (see: "Compressed gases, N. O. S.")		
Lithium aluminum hydride	Inf. S.	Yellow.
Lithium aluminum hydride, ethereal	Inf. L.	Red.
Lithium amide, powdered	Inf. S.	Yellow.
Lithium ferro silicon	Inf. S.	Yellow.
Lithium hydride	Inf. S.	Yellow.
Lithium hydride in solid forms	Inf. S.	Yellow.
Lithium hypochlorite compounds, dry, containing more than 30 percent available chlorine (see: "Calcium hypochlorite compounds, dry, etc.")	Ory. M.	Yellow.
Lithium metal	Inf. S.	Yellow.
Lithium metal in cartridges (see: "Lithium metal")	Inf. S.	Yellow.
Lithium peroxide	Ory. M.	Yellow.
Lithium silicon (see: "Lithium hydride")	Inf. S.	Yellow.
London purple, solid	Pois. B.	Poison.
Long time burning oil (export shipment only—see: "Kerosene")	Comb. L.	
Low blasting explosives (see: "Black powder")	Expl. A	
Low explosives (see: "Black powder")	Expl. A	
<i>Lye</i> (see: "Caustic soda, solid").		
*Machines or apparatus (see: "Refrigerating machines").		
Machines or apparatus (assembled for shipment containing not over 15 pounds weight of gas or liquid for their operations).	Noninf. G.	
Magnesium arsenate, solid	Pois. B.	Poison.
Magnesium dross	Inf. S.	
Magnesium, metallic, powdered, pellets, turnings or ribbon	Inf. S.	Yellow.
Magnesium nitrate (see: "Nitrates")	Ory. M.	Yellow.
Magnesium perchlorate (see: "Perchlorates")	Ory. M.	Yellow.
Magnesium peroxide, solid	Ory. M.	Yellow.
Magnesium scrap (borings, clippings, shavings, sheets, turnings or scalplings).	Inf. S.	Yellow.
Magnesium-thorium alloys in formed shapes (not powdered and which shall contain not more than 4% nominal thorium 232) (see: § 146.25-25(e)).	Pois. D.	Radioactive materials (Red special).
Matches, block (see: "Matches, strike-anywhere").		
Matches, book	Inf. S.	Yellow.
Matches, book, card or strike-on-box, with other articles (see: "Matches, book").		

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.



Article	Classed as—	Label required <sup>1</sup>
Matches, card.....	Inf. S.	Yellow.
Matches, strike-anywhere.....	Inf. S.	Yellow.
Matches, strike-on-box.....	Inf. S.	Yellow.
*Medicines, N. O. S. (see: "Drugs, chemicals, medicines, or cosmetics, N. O. S.").....		
Mentetrahydro phthalic anhydride.....	Cor. L.	White.
*Mercaptan mixtures, aliphatic.....	Comb. L.	
*Mercaptan mixtures, aliphatic (see: "Mercaptans").....	Inf. L.	Red.
*Mercaptans (see: §146.21-100).....		
*Mercurial liquid, N.O.S. (see: "Poisonous Liquids, N.O.S.").....	Pois. B.	Poison.
Mercuric acetate (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric ammonium chloride, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric benzoate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric bromide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric chloride, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric cyanide, solid (see: "Cyanides, etc.").....	Pois. B.	Poison.
Mercuric iodide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric iodide, solution.....	Pois. B.	Poison.
Mercuric oleate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric oxide (red), solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric oxide (yellow), solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric oxycyanide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric-potassium cyanide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric-potassium iodide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric salicylate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric subsulfate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric sulfide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuric sulfo cyanate, solid (mercuric thiocyanate) (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercuriol (mercury nucleate), solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercurous bromide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercurous gluconate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercurous iodide, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercurous nitrate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercurous oxide, black, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercurous sulfate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercury acetate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercury bichloride, solid (mercuric chloride) (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercury bisulfate, solid (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercury compounds, N. O. S. (solid) (see: "Mercury compounds, solid").....	Pois. B.	Poison.
Mercury compounds, solid.....	Pois. B.	Poison.
Mercury cyanide, solid (see: "Cyanides, etc.").....	Pois. B.	Poison.
Mercury fulminate (see: "Initiating or priming explosives").....		
Mercury nucleate, solid (see: "Mercuriol, solid").....		
Mesityl oxide.....	Comb. L.	
*Metal borings, shavings, turnings, cuttings.....	Haz.	
*Metal polish, liquid (see: "Polishes, metal, etc.").....	Comb. L.	
*Metal polish, liquid (see: "Polishes, metal, etc.").....	Inf. L.	Red.
Metallic sodium or potassium (see: "Sodium, metallic or potassium, metallic").....	Inf. S.	Yellow.
Methane.....	Inf. G.	Red gas.
Methanol (methyl alcohol) (see: Alcohol, N.O.S.).....	Inf. L.	Red.
Methyl acetate.....	Inf. L.	Red.
Methyl acetone.....	Inf. L.	Red.
Methylacetylene—15 to 20 percent propadiene mixture.....	Inf. G.	Red gas.
Methyl alcohol (methanol) (see: Alcohol, N.O.S.).....	Inf. L.	Red.
Methyl aluminum sesquibromide (see: "Pyroforic liquids, N.O.S.").....		
Methyl aluminum sesquichloride (see: "Pyroforic liquids, N.O.S.").....		
Methyl amyl acetate.....	Comb. L.	
Methyl amyl ketone.....	Comb. L.	
Methyl bromide, liquid (bromomethane).....	Pois. B.	Poison.
Methyl bromide and chloroform mixture, liquid (see: "Methyl bromide, liquid (bromomethane)").....	Pois. B.	Poison.
Methyl bromide and ethylene dibromide mixture, liquid.....	Pois. B.	Poison.
Methyl bromide and nonflammable, nonliquefied compressed gas mixture, liquid.....	Pois. B.	Poison.
Methyl "Cellosolve" (see: "Ethylene glycol monomethyl ether").....		
Methyl "Cellosolve" acetate (see: "Ethylene glycol monomethyl ether acetate").....		
Methyl chloride.....	Inf. G.	Red gas.
Methyl chloride-methylene chloride mixture.....	Inf. G.	Red gas.
Methyl chloroformate.....	Cor. L.	White.
Methyldichloromethyl ether, anhydrous.....	Inf. L.	Red.
Methyldichlorarsine.....	Pois. A.	Poison Gas.
Methyldichlorosilane.....	Inf. L.	Red.
Methyl ethyl ketone.....	Inf. L.	Red.
Methyl formate.....	Inf. L.	Red.
Methylhydrazine.....	Inf. L.	Red.
ethyl isopropenyl ketone, inhibited.....	Inf. L.	Red.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Methyl magnesium bromide in ethyl ether in concentrations not over 40%.	Inf. L.	Red.
Methyl mercaptan	Inf. G.	Red gas.
Methyl methacrylate monomer	Inf. L.	Red.
Methyl parathion, liquid (see: "Parathion, liquid")	Pois. B.	Poison.
Methyl parathion mixture, dry (see: "Parathion mixture, dry")	Pois. B.	Poison.
Methyl parathion mixture, liquid (see: "Parathion mixture, liquid")	Pois. B.	Poison.
Methyl trichlorosilane (see: "Ethyl trichlorosilane")	Inf. L.	Red.
Methyl vinyl ketone, inhibited (see: "Ethyl methyl ketone")		
Mild detonating fuse, metal clad (see: "Cordeau detonant fuse")	Expl. C.	No restrictions.
Mines, empty (see: "Ammunition for cannons, nonexplosive")		
Mines, explosive (see: "Explosive mines")		
Mixed acid (see: "Nitrating (mixed) acid")	Cor. L.	White.
Mixture of hydrofluoric and sulfuric acids (see: "Hydrofluoric and sulfuric acids, mixtures")	Cor. L.	White.
Mixtures or solutions of liquefied noninflammable gases and liquids other than those classified as inflammable, corrosive, or poisonous, charged with nitrogen, carbon dioxide or air (see "Compressed gases, N. O. S.")		
Monobromobenzene (see: "Bromobenzene")		
Monobromotrifluoromethane	Noninf. G.	Green gas.
Monochloroacetone stabilized	Pois. C.	Tear gas.
Monochloroacetone (unstabilized)	Not permitted	
Monochlorobenzol (see: "Chlorobenzol")	Comb. L.	
Monochloroacetic acid, liquid	Cor. L.	White.
Monochlorobenzene (see: "Chlorobenzol")	Comb. L.	
Monochlorobenzol (see: "Chlorobenzol")	Comb. L.	
Monochlorodifluoromethane	Noninf. G.	Green gas.
Monochloroethylene (see: "Vinyl chloride, inhibited")		
Monochloropentafluoroethane	Noninf. G.	Green gas.
Monochlorotetrafluoroethane	Noninf. G.	Green gas.
Monochlorotrifluoromethane	Noninf. G.	Green gas.
Monoethylamine (ethylamine)	Inf. L.	Red.
Monofluorophosphoric acid, anhydrous (see: "Difluorophosphoric acid, anhydrous")	Cor. L.	White.
Monomethylamine, anhydrous	Inf. G.	Red gas.
Monomethylamine, aqueous solution (see: "Dimethylamine, aqueous solutions")	Inf. L.	Red.
*Mortar stain, liquid (see: "Paint, enamel, etc.")	Comb. L.	
*Mortar stain, liquid (see: "Paint, enamel, etc.")	Inf. L.	Red.
Moth balls (see: "Naphthalene")		
Motion-picture film (nitrocellulose base) including mixed shipments with noninflammable film)	Inf. S.	Yellow.
Motion-picture film, old and worn out (nitrocellulose base)	Inf. S.	Yellow.
Motion-picture film, old and worn out (slowburning)	No restrictions	
Motion-picture film (processed, positive or negative, nitrocellulose)	Inf. S.	Yellow.
Motion-picture film (processed, positive or negative, slow-burning)	No restrictions	
Motion-picture film scrap (nitrocellulose base) other than samples	Inf. S.	Yellow.
Motion-picture film scrap (nitrocellulose base), samples of	Inf. S.	Yellow.
Motion-picture film, scrap (slow burning)	No restrictions	
Motion-picture film, toy (nitrocellulose base)	Inf. S.	Yellow.
Motion-picture film, toy pieces (nitrocellulose base)	No restrictions	
Motion-picture film, toy (slow-burning)	No restrictions	
Motion-picture film, unexposed (nitrocellulose base)	Inf. S.	Yellow.
Motion-picture film, unexposed (slow-burning)	No restrictions	
Motion-picture outfits, toy	No restrictions	
Motor-fuel antiknock compound	Pois. B.	Poison.
Motor fuel (export only) (see: "Gasoline")	Inf. L.	Red.
*Motor fuel, N. O. S.	Comb. L.	
*Motor fuel, N. O. S.	Inf. L.	Red.
Motor spirit (export only) (see: "Gasoline")	Inf. L.	Red.
Motorcycles (see: "Automobiles, motorcycles, etc.")	Haz.	
Muriatic acid (see: "Hydrochloric acid")	Cor. L.	White.
Mustard gas	Pois. A.	Poison gas.
Nafta (export only) (see: "Gasoline")	Inf. L.	Red.
*Naphtha (see: "Benzine")	Comb. L.	
Naphtha (see: "Benzine")	Inf. L.	Red.
*Naphtha distillate (see: "Benzine")	Comb. L.	
*Naphtha distillate (see: "Petroleum distillate")	Inf. L.	Red.
*Naphtha, petroleum (see: "Benzine")		
*Naphtha, solvent (see: "Coal tar naphtha")	Comb. L.	
*Naphtha, solvent (see: "Coal tar naphtha")	Inf. L.	Red.
Naphthalene	Haz.	
Naphthalin	Haz.	
Natural gasoline (see: "Gasoline")		
Neohexane	Inf. L.	Red.
Neon gas	Noninf. G.	Green gas.
New explosives or explosive devices (see: § 146.20-3 (q)).		
Nickel carbonyl	Inf. L.	Red.
*Nickel catalyst, finely divided, activated or spent	Inf. S.	Yellow.
Nickel cyanide, solid (see: "Cyanides, etc.")	Pois. B.	Poison.
Nicotine hydrochloride	Pois. B.	Poison.
Nicotine, liquid	Pois. B.	Poison.
Nicotine salicylate	Pois. B.	Poison.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Nicotine sulfate, liquid	Pols. B	Poison.
Nicotine sulfate, solid	Pols. B	Poison.
Nicotine tartrate	Pols. B	Poison.
Nitrate of aluminum (see: "Nitrates")	Oxy. M	Yellow.
Nitrate of ammonia (see: "Nitrates")	Oxy. M	Yellow.
Nitrate of ammonia explosives (see: "High explosives")	Oxy. M	Yellow.
Nitrate of barium (see: "Nitrates")	Oxy. M	Yellow.
Nitrate of lead (see: "Nitrates")	Oxy. M	Yellow.
Nitrate of potash (Potassium nitrate) (see: "Nitrates")	Oxy. M	Yellow.
Nitrate of soda (Sodium nitrate) (see: "Nitrates")	Oxy. M	Yellow.
Nitrate of soda and potash (see: "Nitrates")	Oxy. M	Yellow.
Nitrate of soda, bags, empty, unwashed (see "Bags, nitrate of soda, empty and unwashed")	Oxy. M	Yellow.
Nitrate of strontium (strontium nitrate) (see: "Nitrates")	Oxy. M	Yellow.
Nitrates	Oxy. M	Yellow.
Nitrates, N. O. S. (see: "Nitrates")	Oxy. M	Yellow.
Nitrating (mixed) acid	Cor. L	White.
Nitric acid	Cor. L	White.
Nitric ether (see: "Ethyl nitrate")	Oxy. M	Yellow.
Nitrite of soda (see: "Sodium nitrite")	Pols. B	Poison.
Nitrobenzol, liquid (oil of mirbane)	Oxy. M	Yellow.
Nitro carbo nitrate	Oxy. M	Yellow.
Nitrocellulose (collodion cotton), wet with alcohol or solvent (see: "Wet nitrocellulose—30 percent alcohol or solvent")		
Nitrocellulose (collodion cotton), wet with water (see: "Wet nitrocellulose—20 percent water")		
Nitrocellulose, colloided, granular or flake, wet with alcohol or solvent (see: "Wet nitrocellulose, colloided, granular or flake—20 percent alcohol or solvent")		
Nitrocellulose, colloided, granular, flake or block wet with alcohol or solvent (see: "Wet nitrocellulose colloided, granular or flake—20% alcohol or solvent; or block—25% alcohol")		
Nitrocellulose, dry (see: "High explosives")		
Nitrocellulose flakes wet with alcohol or solvent (see: "Wet nitrocellulose, colloided, granular or flake—20 percent alcohol or solvent")		
Nitrochlorobenzene, meta or para, solid	Pols. B	Poison.
Nitrochlorobenzene, ortho, liquid	Pols. B	Poison.
Nitrogen	Noninf. G	Green gas.
Nitrogen dioxide, liquid	Pols. A	Poison gas.
*Nitrogen fertilizer solution	Noninf. G	Green gas.
Nitrogen peroxide, liquid	Pols. A	Poison gas.
Nitrogen, pressurized liquid	Noninf. G	Green gas.
Nitrogen tetroxide (see: "Nitrogen peroxide")	Pols. A	Poison gas.
Nitrogen tetroxide—nitric oxide mixtures containing up to 33.2% weight nitric oxide (see: "Nitrogen dioxide, liquid")	Pols. A	Poison gas.
Nitroglycerin, liquid	Prohibited	
Nitroglycerin, liquid, desensitized	Not permitted	
Nitroglycerin, spirits of (see: "Spirits of nitroglycerin")		
Nitroguanidine, dry (see: "High explosives")		
Nitroguanidine, wet with water (see: "Wet nitroguanidine—20 percent water")		
Nitrohydrochloric acid	Cor. L	White.
Nitrohydrochloric acid, diluted	Cor. L	White.
Nitro manite (see: "Initiating or priming explosives")		
Nitroguanidine (see: "Initiating or priming explosives")		
Nitrostarch, dry (see: "High explosives")		
Nitrostarch, wet with alcohol or solvent (see: "Wet nitrostarch—30 percent alcohol or solvent")		
Nitrostarch, wet with water (see: "Wet nitrostarch—20 percent water")		
Nitrosyl chloride	Noninf. G	Green gas.
Nitrourea (see: "High explosives")	Noninf. G	Green gas.
Nitrous oxide	Pols. B	Poison.
Nitroxylol		
Nonliquefied gases (see: "Compressed gases, N. O. S.")	Inf. G	Red gas.
Nonliquefied hydrocarbon gas (see: "Hydrocarbon gas, nonliquefied")	Cor. L	White.
Nonyl trichlorosilane	Haz	
Oakum	Cor. L	White.
Octadecyltrichlorosilane	Cor. L	White.
Octyltrichlorosilane	Cor. L	White.
*Oil	Comb. L	
*Oil	Inf. L	Red.
*Oil, N. O. S.	Comb. L	
*Oil, N. O. S.	Inf. L	Red.
Oil of mirbane (see: "Nitrobenzol, liquid")		
Oil of vitriol (see: "Sulfuric acid")		
Oil well cartridges	Expl. C	
Oiled clothing (manufactured articles properly dried to prevent spontaneous heating)	Haz	
Oiled paper (manufactured articles properly dried to prevent spontaneous heating)	Haz	
Oiled textiles (manufactured articles properly dried to prevent spontaneous heating)	Haz	
Oleum (see: "Sulfuric acid")	Cor. L	White.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
*Organic phosphate compound, liquid, N.O.S. (see: "Tetraethyl pyrophosphate, liquid").	Pois. B.	Poison.
*Organic phosphate compound, mixtures, dry, N.O.S. (see: "Tetraethyl pyrophosphate, mixture, dry").	Pois. B.	Poison.
*Organic phosphate compound mixtures, liquid, N.O.S. (see: "Tetraethyl pyrophosphate, liquid").	Pois. B.	Poison.
*Organic phosphates, N.O.S. mixed with compressed gas.	Pois. A.	Poison gas.
Ortho-nitroaniline (see: nitrochlorobenzene, meta or para, solid).	Pois. B.	Poison.
Oxide, spent (see: "Iron mass, spent").	Inf. S.	Yellow.
Oxidizing materials, N. O. S.	Oxy. M.	Yellow.
Oxygen.	Noninf. G.	Green gas.
Oxygen, pressurized liquid.	Noninf. G.	Green gas.
*Paint driers, liquid (see: "Paint, enamel, etc.").	Comb. L.	
*Paint driers, liquid (see: "Paint, enamel, etc.").	Inf. L.	Red.
*Paint, enamel, lacquer, stain, shellac, varnish, aluminum, bronze, gold, wood filler, liquid, and lacquer base, liquid.	Comb. L.	
*Paint, enamel, lacquer, stain, shellac, varnish, aluminum, bronze, gold, wood filler, liquid, and lacquer base, liquid.	Inf. L.	Red.
*Paint, lacquer and varnish, moving, reducing or thinning compounds (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").	Comb. L.	
*Paint, lacquer and varnish removing, reducing or thinning compounds (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").	Inf. L.	Red.
*Paint, liquid (see: "Paint, enamel, etc.").	Comb. L.	
Paper cap ammunition for toy pistols (see: "Toy caps").		
Paper caps (see: "Toy caps").		
Paper scrap (when dry, clean and free from oil).	Haz.	
Paper stock, wet.	Inf. S.	Yellow.
Paper waste, wet (see: "Paper stock, wet").	Inf. S.	Yellow.
Paper waste (when dry, clean, and free from oil).	Haz.	
Parachlorobenzoyl peroxide (see: "Chlorobenzoyl peroxide (para)").	Oxy. M.	Yellow.
Paraffin (export shipment only) (see: "Kerosene").	Comb. L.	
Paraldehyde.	Comb. L.	
Paramenthane hydroperoxide (see: "Organic peroxides").	Oxy. M.	Yellow.
Paranitraniline (paranitroaniline), solid (see: "Nitrochlorobenzene, meta or para, solid").	Pois. B.	Poison.
Parathion and compressed gas mixture.	Pois. A.	Poison gas.
Parathion, liquid.	Pois. B.	Poison.
Parathion mixture, dry.	Pois. B.	Poison.
Parathion mixture, liquid.	Pois. B.	Poison.
Paris green, solid (see: "Copper acetoarsenite, solid").	Pois. B.	Poison.
Pentaborane.	Inf. L.	Red.
Pent-acetate (see: "Amyl acetate").	Comb. L.	
Pentaerythrite tetranitrate (see: "Initiating or priming explosives").		
Pentane.	Inf. L.	Red.
Pentane, methyl.	Inf. L.	Red.
Pentolite, dry (see: "High explosives").		
Peracetic acid.	Oxy. M.	Yellow.
Perchlorate of ammonia (ammonium perchlorate) (see: "Perchlorates").	Oxy. M.	Yellow.
Perchlorate of potash (potassium perchlorate) (see: "Perchlorates").	Oxy. M.	Yellow.
Perchlorates.	Oxy. M.	Yellow.
Perchlorates, N. O. S. (see: "Perchlorates").	Oxy. M.	Yellow.
Perchloric acid (exceeding 72 percent strength).	Not permitted.	
Perchloric acid (of not exceeding 72 percent strength).	Cor. L.	White.
Perchloro-methyl-mercaptan.	Pois. B.	Poison.
Percussion caps (see: "Primers").	Expl. C.	
Percussion fuzes (see: "Fuzes").	Expl. C.	
Permanganate of potash (potassium permanganate) (see: "Permanganates").	Oxy. M.	Yellow.
Permanganate of soda (sodium permanganate) (see: "Permanganates").	Oxy. M.	Yellow.
Permanganates.	Oxy. M.	Yellow.
Permanganates, N. O. S. (see: "Permanganates").	Oxy. M.	Yellow.
Peroxide of sodium (see: "Sodium peroxide").	Oxy. M.	Yellow.
Peroxides, organic, liquids or solutions, N. O. S.	Inf. L.	Red.
Peroxides, organic, liquid, N.O.S. (see: "Organic peroxides").	Oxy. M.	Yellow.
Peroxides, organic, solution, liquid, N. O. S. (see: "Peroxides, organic, liquid, N. O. S.").	Oxy. M.	Yellow.
Petrol (export only) (see: "Gasoline").	Inf. L.	Red.
*Petroleum coke.	Haz.	
*Petroleum, crude (see: "Crude oil, petroleum").		
*Petroleum distillate.	Inf. L.	Red.
*Petroleum distillate, N. O. S.	Comb. L.	
*Petroleum ether (see: "Benzine").	Comb. L.	
*Petroleum ether (see: "Benzine").	Inf. L.	Red.
*Petroleum gas, liquefied (see: "Liquefied petroleum gas").	Inf. G.	Red gas.
*Petroleum naphtha (see: "Benzine").	Comb. L.	
*Petroleum naphtha (see: "Benzine").	Inf. L.	Red.
*Petroleum oil (see: "Oil").	Comb. L.	
*Petroleum oil (see: "Oil").	Inf. L.	Red.
*Petroleum oil, N. O. S. (see: "Oil").	Comb. L.	
*Petroleum oil, N. O. S. (see: "Oil").	Inf. L.	Red.
*Petroleum spirits (see: "Compounds, lacquer, etc., removing, reducing or thinning").		

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required †
Phenol, liquid (see: "Carbolic acid, liquid")	Pois. B.	Poison.
Phenol, solid (see: "Carbolic acid, solid")	Pois. B.	Poison.
Phenyl trichlorosilane	Cor. L.	White.
Phenylcarbylamine chloride	Pois. A.	Poison gas.
Phenyldichlorarsine, liquid	Pois. B.	Poison.
Phosgene (diphosgene)	Pois. A.	Poison gas.
Phosphoric acid	Haz.	
Phosphoric anhydride	Inf. S.	Yellow.
Phosphorus amorphous, red	Inf. S.	Yellow.
Phosphorous oxybromide (see: phosphorous oxychloride)	Cor. L.	White.
Phosphorus oxychloride	Cor. L.	White.
Phosphorus pentachloride	Inf. S.	Yellow.
Phosphorus sesquisulfide	Inf. S.	Yellow.
Phosphorus tribromide	Cor. L.	White.
Phosphorus trichloride	Cor. L.	White.
Phosphorus, white or yellow, dry	Inf. S.	Yellow.
Phosphorus, white or yellow, in water	Inf. S.	Yellow.
Phosphorus, white or yellow, in water in bulk (see: § 146.22—35).		
Photographic film (cellulose acetate base)	No restrictions.	
Photographic film (nitrocellulose base)	Inf. S.	Yellow.
Photographic film, scrap (Nitrocellulose base) (see: "Motion-picture film scrap (nitrocellulose base)")	Inf. S.	Yellow.
Photographic film scrap (slow-burning) (see: "Motion-picture film (slow-burning)")	No restrictions.	
Photographic flash lamps (capable, upon breakage, of igniting inflammable vapors or finely divided combustible substances).	Haz.	
Photographic flash lamps (that will not, upon breakage, ignite inflammable vapors or finely divided combustible substances).	No restrictions.	
Photographic flash powder (see: "Fireworks, special" or "Low explosives")		
Picrate of ammonia (see: "High explosives").		
Picrates, dry (see: "High explosives").		
Picric acid, dry (see: "High explosives").		
Picric acid, wet with not less than 10 percent water, and not exceeding 16 ounces	Inf. S.	
Picric acid, wet with not less than 10 percent water, in excess of 16 ounces but not exceeding 55 pounds.	Inf. S.	Yellow.
Picric acid, wet with not less than 10 percent water, over 25 pounds (see: "High explosives").		
*Pine oil	Comb. L.	
Pintwheels (see: "Fireworks, common").		
*Plastic solvent, N. O. S.	Comb. L.	
*Plastic solvent, N. O. S. (see: "Solvents, N. O. S.")	Inf. L.	Red.
Poisonous liquid or gas, N. O. S.	Pois. A.	Poison gas.
Poisonous liquids, N. O. S.	Pois. B.	Poison.
Poisonous liquids, N. O. S.	Pois. C.	Tear gas.
Poisonous solids, N. O. S.	Pois. B.	Poison.
Poisonous solids, N. O. S.	Pois. C.	Tear gas.
Poisonous solids, N. O. S.	Pois. A.	Poison gas.
Police grenades, poison gas, class A		
*Polishes, metal, stove, furniture and wood, liquid	Comb. L.	
*Polishes, metal, stove, furniture and wood, liquid	Inf. L.	Red.
*Polishing compounds, liquid (see: "Polishes, metal, stove, furniture, and wood, liquid")	Comb. L.	
Polymerizable materials (see: § 146.05-3).		
Potash, caustic, solution (see: "Caustic potash, liquid")	Cor. L.	White.
Potassium arsenate, solid	Pois. B.	Poison.
Potassium arsenite, solid	Pois. B.	Poison.
Potassium bromate	Oxy. M.	Yellow.
Potassium chlorate (see: "Chlorates")	Oxy. M.	Yellow.
Potassium cyanide, liquid (see: "Cyanides of potassium, liquid")	Pois. B.	Poison.
Potassium cyanide, solid (see: "Cyanides, etc.")	Pois. B.	Poison.
Potassium dichloroisocyanurate, dry, containing more than 39% available chlorine	Oxy. M.	Yellow.
Potassium hydroxide (see: "Caustic potash, solid")	Haz.	
Potassium hydroxide solution (see: "Caustic potash, liquid")	Cor. L.	White.
Potassium, metallic	Inf. S.	Yellow.
Potassium, metallic liquid alloy	Inf. S.	Yellow.
Potassium nitrate (see: "Nitrates")	Oxy. M.	Yellow.
Potassium nitrate mixed (fused) with sodium nitrite	Oxy. M.	Yellow.
Potassium nitrite	Oxy. M.	Yellow.
Potassium perchlorate (see: "Perchlorates")	Oxy. M.	Yellow.
Potassium permanganate (see: "Permanganates")	Oxy. M.	Yellow.
Potassium peroxide	Oxy. M.	Yellow.
Potassium sulfide (fused or concentrated when ground)	Inf. S.	Yellow.
Potassium sulfide, fused or concentrated but not ground—may be chipped or broken.	Inf. S.	Yellow.
*Potato spray (arsenical), liquid (see: "Insecticide, liquid").		
Primers		
Primers, detonating (see: "Initiating or priming explosives").		
Projectiles, explosive (see: "Explosive projectiles").		
Projectiles, gas, nonexplosive (see: "Chemical ammunition, classes A, B, or C").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
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Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke, or incendiary, with burster or booster with or without detonating fuze (see: "Ammunition, chemical, explosive").		
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge (see: "Fireworks, special").		
Projectiles, gas, smoke,		

<sup>2</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
<i>Projectiles, sand-loaded, empty or solid</i> (see: "Ammunition for cannon, nonexplosive").		
<i>Propane</i> (see: "Liquefied petroleum gas").		
Propellant explosives, Class A.....	Expl. A.....	
Propellant explosives (liquid) Class B.....	Expl. B.....	
Propellant explosives (solid) Class B.....	Expl. B.....	
Propellant explosives in water ( <i>smokeless powder for cannon or small arms</i> ).	Expl. B.....	
Propellant explosives in water, unstable, condemned, or deteriorated ( <i>smokeless powder for cannon or small arms</i> ).	Expl. B.....	
Propellant explosives (solid), Class B, and small arms primers (see: "Propellant explosives, Class B").		
*Propyl alcohol (see: Alcohol, N. O. S.).....	Comb. L.....	
*Propyl alcohol (see: Alcohol, N. O. S.).....	Inf. L.....	Red.
Propyl mercaptan (see "Mercaptans").....	Inf. L.....	Red.
Propyl trichlorosilane.....	Cor. L.....	White.
Propylene (see: "Liquefied petroleum gas").		
Propylene imine, inhibited (see: "Ethylene imine inhibited").....	Inf. L.....	Red.
Propylene oxide.....	Inf. L.....	Red.
<i>Prussic acid</i> (see: "Hydrocyanic acid, liquid").		
<i>Prussic acid, unstabilized</i> (see: "Hydrocyanic acid, unstabilized").		
*Pyridine.....	Comb. L.....	
Pyridine.....	Inf. L.....	Red.
<i>Pyroforic fuel</i> (see "Pyroforic liquids, N.O.S.").		
Pyroforic liquids, N. O. S.....	Inf. L.....	Red.
<i>Pyroforic solutions</i> (see "Pyroforic liquids, N.O.S.").		
Pyrosulfuryl chloride.....	Cor. L.....	White.
*Pyroxylin cement (see: "Cement, pyroxylin").....	Comb. L.....	
*Pyroxylin cement (see: "Cement, pyroxylin").....	Inf. L.....	Red.
Pyroxylin plastic scrap.....	Inf. S.....	Yellow.
Pyroxylin plastics, rods, rolls, sheets, tubes.....	Inf. S.....	Yellow.
*Pyroxylin solution.....	Comb. L.....	
*Pyroxylin solution (see: "Solvents, N. O. S.").....	Inf. L.....	Red.
*Pyroxylin solvent, N. O. S.....	Comb. L.....	
*Pyroxylin solvent, N. O. S. (see: "Solvents, N. O. S.").....	Inf. L.....	Red.
Quicklime (see: "Lime, unslaked").....	Haz.....	
Radio battery charges or radio current supply device (see: "Electrolyte (acid) or alkaline corrosive battery fluid, packed with battery charger or radio current supply device or parts thereof").		
Radioactive material—low activity.....	Pois. D.....	
Radioactive materials, groups I and II.....	Pois. D.....	Poison radioactive materials (red).
Radioactive materials, group III.....	Pois. D.....	Poison radioactive materials (blue).
Radioactive materials N. O. S. (see: "Radioactive materials, groups I and II or group III").	Pois. D.....	Poison radioactive materials (blue or red).
Rags, oily (see: "Cotton waste, oily").....	Inf. S.....	Yellow.
Rags, scrap ( <i>when dry, clean and free from oil</i> ).....	Haz.....	
Rags, wet.....	Inf. S.....	Yellow.
Railway fuses.....	Expl. C.....	
Railway torpedoes (track torpedoes).....	Expl. B.....	Special fireworks.
Range oil (see: "Fuel oil").....	Comb. L.....	
*Reducing compounds, paint, varnish, lacquer, etc. (see: "Compounds, lacquer, etc., removing, reducing, or thinning, liquid").	Comb. L.....	
*Reducing compounds, paint, varnish, lacquer, etc. (see: "Compounds, lacquer, etc., removing, reducing, or thinning, liquid").		
Refined oil (export shipment only) (see: "Kerosene").....	Comb. L.....	
Refined petroleum (export shipment only) (see: "Kerosene").....	Comb. L.....	
*Refrigerating machines ( <i>assembled for shipment and containing not over 15 pounds of an inflammable liquid for their operation</i> ).	Inf. L.....	
Refrigerating machines ( <i>of the self-contained type containing not over 50 pounds weight of gas, or of the remote-control type, consisting of separate units shipped separately and each containing not over 25 pounds weight of gas</i> ).	Inf. G. or Noninf. G..	
*Removing compounds, paint, varnish, lacquer, etc. (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").	Comb. L.....	
*Removing compounds, paint, varnish, lacquer, etc. (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").		
*Resin solution (resin compound, liquid).....	Comb. L.....	
*Resin solution (resin compound, liquid).....	Inf. L.....	Red.
Resinate of cobalt (see: "Cobalt resinate, precipitated").....	Inf. S.....	Yellow.
Rifle grenades (see: "Ammunition—projectiles, grenades, etc.").....	Expl. A.....	
<i>Rifle powder</i> (see: "Propellant explosives, Class A," "Propellant explosives, Class B," or "Black powder").		
*Road asphalt or tar (see: "Asphalt").....	Haz.....	
*Road asphalt or tar, liquid.....	Comb. L.....	
*Road asphalt or tar, liquid.....	Inf. L.....	Red.
*Road oil.....	Comb. L.....	
Rocket ammunition with empty projectiles.....	Expl. B.....	
Rocket ammunition with explosive projectiles.....	Expl. A.....	
Rocket ammunition with gas projectiles.....	Expl. A.....	
Rocket ammunition with illuminating projectiles.....	Expl. A.....	
Rocket ammunition with incendiary projectiles.....	Expl. A.....	

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Rocket ammunition with inert-loaded projectiles	Expl. B.	
Rocket ammunition with smoke projectiles	Expl. A.	
Rocket ammunition with solid projectiles	Expl. B.	
Rocket ammunition without projectiles	Expl. B.	
Rocket bodies with electric primers or electric squibs	No restrictions	
Rocket fireworks (see: "Fireworks, common")		
Rocket heads (see: "Explosive projectiles")		
Roman candles (see: "Fireworks, common")		
Rosin (colophony) (see: "Resin")	Haz.	
Rough ammoniate tankages (containing less than 7 percent moisture) (see: "Tankages")	Inf. S.	Yellow.
Rough ammoniate tankages (containing 7 percent or more of moisture) (see: "Tankages")	Haz.	
Rubber buffings	Inf. S.	Yellow.
*Rubber cement (see: "Cement, rubber")	Comb. L.	
*Rubber cement (see: "Cement, rubber")	Inf. L.	Red.
*Rubber scrap, ground, powdered or granulated	Inf. S.	Yellow.
*Rubber shoddy, regenerated rubber, or reclaimed rubber	Inf. S.	Yellow.
*Rum, denatured (see: Alcohol, N. O. S.)	Comb. L.	
*Rum, denatured (see: Alcohol, N. O. S.)	Inf. L.	Red.
*Rust preventive coating	Comb. L.	
Safety fuse	Expl. C.	
Safety squibs (see: "Igniters")	Expl. C.	
Saltpeter (see: "Potassium nitrate")		
Saltpeter, Chile (see: "Sodium nitrate")		
Salutes (see: "Fireworks, common" or "Fireworks, special")		
Samples of explosives (see: § 146.20-13)		
Sawdust (when dry, clean and free from oil)	Haz.	
Scheele's green, solid (see: "Copper arsenite, solid")		
Sea coal (see: "Coal facings")	Inf. S.	Yellow.
Self-lighting cigarettes (see: § 146.05-3 (d))		
Self-propelled vehicles (see: "Automobiles, motorcycles, tractors, or other self-propelled vehicles, etc.")		
Shaped charges, commercial (see: "High explosives")		
*Shellac (see: "Paint, enamel, etc.")	Comb. L.	
*Shellac (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Shellac, liquid (see: "Paint, enamel, etc.")	Comb. L.	
*Shellac, liquid (see: "Paint, enamel, etc.")	Inf. L.	Red.
Shells, fireworks (see: "Fireworks, common" or "Fireworks, special")		
Ship distress signals (see: "Fireworks, special")		
Signal flares (see: "Flares and signalling devices")	Expl. C.	
Signals, highway (see: "Fireworks, common")		
Silicon chloride (tetrachloride)	Cor. L.	White.
Silicon tetrafluoride	Noninf. G.	Green gas.
Silver cyanide (see: "Cyanide of silver")		
Silver nitrate (see: "Nitrates")	Oxy. M.	Yellow.
Sisal (see: "Fibers")		
*Sludge acid	Cor. L.	White.
Small-arms ammunition	Expl. C.	
Small-arms ammunition, tear gas cartridges	Expl. C.	
Small-arms primers (see: "Primers")	Expl. C.	Tear gas.
Smoke candles (see: "Flares and signalling devices")	Expl. C.	
Smoke generators (see: "Chemical ammunition, class B or C")		
Smoke grenades (see: "Flares and signalling devices")	Expl. C.	
Smoke pots (see: "Flares and signalling devices")	Expl. C.	
Smoke projectiles with bursting charges (see: "Explosive projectiles")		
Smoke projectiles with expelling charge but without bursting charge (see: "Fireworks, special")		
Smoke signals (see: "Flares and signalling devices")	Expl. C.	
Smokeless powder for cannon or small arms (see: "Propellant explosives, Class A" or "Propellant explosives, Class B")		
Soda amatoï (see: "High explosives containing no liquid explosive ingredient nor any chlorate")		
Soda, caustic solution (see: "Caustic soda, liquid")	Cor. L.	White.
Sodium aluminate, liquid	Cor. L.	White.
Sodium aluminum hydride	Inf. S.	Yellow.
Sodium amide	Inf. S.	Yellow.
Sodium arsenate, solid (see: "Potassium arsenate, solid")	Pols. B.	Poison.
Sodium arsenite (solution) liquid	Pols. B.	Poison.
Sodium azide	Pols. B.	Poison.
Sodium bromate	Oxy. M.	Yellow.
Sodium cacodylate, solid (sodium dimethyl arsenate)	Pols. B.	Poison.
Sodium chlorate (soda chlorate) (see: "Chlorates")	Oxy. M.	Yellow.
Sodium chlorite	Oxy. M.	Yellow.
Sodium chlorite solution (not exceeding 42 percent sodium chlorite)	Cor. L.	White.
Sodium cyanide (see: "Cyanides, etc.")	Pols. B.	Poison.
Sodium dichloroisocyanurate, dry, containing more than 39% available chlorine (see: "Potassium dichloroisocyanurate, dry, containing more than 39% available chlorine")	Oxy. M.	Yellow.
Sodium dimethylarsenate (see: "Sodium cacodylate, solid")		
Sodium hydride	Inf. S.	Yellow.
Sodium hydrosulfite	Inf. S.	Yellow.
Sodium hydroxide (see: "Caustic soda, solid")	Haz.	
Sodium hydroxide solution (see: "Caustic soda, liquid")	Cor. L.	White.
Sodium, metallic	Inf. S.	Yellow.
Sodium, metallic, dispersed in organic solvent	Inf. S.	Yellow.

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed by—	Label required <sup>1</sup>
Sodium, metallic liquid alloy (see: "Potassium, metallic liquid alloy").	Inf. S.	Yellow.
*Sodium methylete, alcohol mixture.	Comb. L.	
*Sodium methylete, alcohol mixture.	Inf. L.	Red.
Sodium methylete, dry.	Inf. S.	Yellow.
Sodium nitrate (see: "Nitrates").	Oxy. M.	Yellow.
Sodium nitrite.	Oxy. M.	Yellow.
Sodium nitrite mixed (fused) with potassium nitrate (see: "Potassium nitrate mixed (fused) with sodium nitrite").		
Sodium nitrite mixtures (sodium nitrate, sodium nitrite, and potassium nitrate).	Oxy. M.	Yellow.
Sodium permanganate (see: "Permanganates").	Oxy. M.	Yellow.
Sodium peroxide.	Oxy. M.	Yellow.
Sodium picramate, wet with 20 percent water.	Inf. S.	Yellow.
Sodium potassium alloys.	Inf. S.	Yellow.
Sodium sulfide (fused or concentrated when ground).	Inf. S.	Yellow.
Sodium sulfide (fused or concentrated but not ground—may be chipped, flaked, or broken) (see: "Potassium sulfide, etc.").	Inf. S.	Yellow.
Solvent, mineral spirits (see: "Compounds, lacquer, etc.").		
*Solvents, N. O. S.	Comb. L.	
*Solvents, N. O. S.	Inf. L.	Red.
*Sparklers (see: "Fireworks, common").		
Special fireworks (see: "Fireworks, special").	Expl. B.	Special fireworks.
Spent iron mass (see: "Iron mass spent").	Inf. S.	Yellow.
Spent iron sponge (see: "Iron sponge, spent").	Inf. S.	Yellow.
Spent mixed acid.	Cor. L.	White.
Spent oxide (see: "Iron mass, spent").	Inf. S.	Yellow.
Spent sulfuric acid.	Cor. L.	White.
Spent sulfuric acid in bulk (see: § 146.23-35).		
Spirits of nitroglycerin (when consisting of not more than 1 percent by weight of nitroglycerin in ethyl alcohol).	Inf. L.	Red.
Spirits of nitroglycerin (when consisting of not more than 10 percent by weight of nitroglycerin in ethyl alcohol or acetone).	Inf. L.	Red.
Sporting powder (see: "Black powder").		
Spray starting fluid (see: "Engine starting fluid").		
Spreader cartridges (see: "Fireworks, special" or "Low explosives").		
Squibs, electric or safety (see: "Igniters").	Comb. L.	
*Stain (see: "Paint, enamel, etc.").	Inf. L.	Red.
*Stain (see: "Paint, enamel, etc.").	Expl. B.	
Starter cartridges, jet engine, class B explosives.	Expl. C.	
Starter cartridges, jet engine, Class C explosives (see: "Explosive cable cutters").		
Stoddard solvent.	Comb. L.	
Storage batteries, wet (see: "Batteries, electric storage, wet").	Cor. L.	White.
*Stove polish, liquid (see: "Polishes, metal, etc.").	Comb. L.	
*Stove polish, liquid (see: "Polishes, metal, etc.").	Inf. L.	Red.
Straw (see: "Hay").	Haz.	
Strike-anywhere matches (see: "Matches, strike-anywhere").	Inf. S.	Yellow.
Strike-on-box matches (see: "Matches, strike-on-box").	Inf. S.	Yellow.
Strontium arsenite, solid.	Pol. B.	Poison.
Strontium chlorate (see: "Chlorates").	Oxy. M.	Yellow.
Strontium chlorate, wet (see: "Chlorates, wet").	Oxy. M.	Yellow.
Strontium nitrate (see: "Nitrates").	Oxy. M.	Yellow.
Strontium peroxide.	Pol. B.	Poison.
Strychnine and salts thereof, solid (see: "Potassium arsenate, solid").		
Syngnate of lead (see: "Initiating or priming explosives").	Comb. L.	
Styrene (styrene monomer).	Oxy. M.	Yellow.
Succinic acid peroxide, dry (see: "Organic peroxides").	Oxy. M.	Yellow.
Succinic acid peroxide, wet (with not less than 50% water) (see: "Organic peroxides").		
Sulfide of potassium (see: "Potassium sulfide").	Inf. S.	Yellow.
Sulfide of sodium (see: "Potassium sulfide").	Inf. S.	Yellow.
Sulfur.	Haz.	
Sulfur chloride (mono and di).	Cor. L.	White.
Sulfur dioxide.	Noninf. G.	Green gas.
Sulfur flower (see: "Sulfur").	Haz.	
Sulfur hexafluoride.	Noninf. G.	Green gas.
Sulfur trioxide (stabilized).	Cor. L.	White.
Sulfuric acid, fuming (oleum) (Nordhausen).	Cor. L.	White.
Sulfuric acid in bulk (see: § 146.23-35).		
Sulfuric acid (oil of vitriol).		
Sulfuric acid, spent, in bulk (see: § 146.23-35).	Cor. L.	White.
Sulfonyl chloride.	Noninf. G.	Green gas.
Sulfonyl fluoride.	Expl. A.	
Supplementary charges (explosive) (see: "Boosters").	Haz.	
*Tank cars, empty.	Haz.	
*Tank trucks, empty.	Haz.	
Tankage fertilizers (containing 8 percent or more of moisture) (see: "Tankages").	Inf. S.	Yellow.
Tankage fertilizers (containing less than 8 percent moisture) (see: "Tankages").	Inf. S.	Yellow.
Tankage, rough ammoniate (containing less than 7 percent moisture) (see: "Tankages").	Inf. S.	Yellow.
*Tankages.	Haz.	
*Tankages.	Haz.	
*Tax, liquid (see: "Road asphalt or tar, liquid").	Comb. L.	

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.



Article	Classed by—	Label required <sup>1</sup>
*Tar, liquid (see: "Road asphalt or tar, liquid")	Inf. L.	Red.
Tear gas candles	Polis. C.	Tear gas.
<i>Tear gas cartridges</i> (see: "Small-arms ammunition, tear gas cartridges")		
Tear gas grenades	Polis. C.	Tear gas.
Tear gas material, liquid or solid, N. O. S.	Polis. C.	Tear gas.
*Tertiary alcohol (see: Alcohol, N. O. S.)	Comb. L.	
*Tertiary alcohol (see: Alcohol, N. O. S.)	Inf. L.	Red.
Tertiary butylisopropyl benzene hydroperoxide (see " <i>Organic peroxides</i> ")	Oxy. M.	Yellow.
<i>Tetrachloride</i> (see: "Silicon chloride")		
Tetrachloroethane	Haz.	
Tetraethyl dithio pyrophosphate and compressed gas mixture	Polis. A.	Poison gas.
Tetraethyl dithio pyrophosphate, liquid (see: Tetraethyl pyrophosphate, liquid")	Polis. B.	Poison.
Tetraethyl dithio pyrophosphate, mixture, dry (see: "Tetraethyl pyrophosphate, mixture, dry")	Polis. B.	Poison.
Tetraethyl dithio pyrophosphate, mixture, liquid (see: "Tetraethyl pyrophosphate, liquid")	Polis. B.	Poison.
Tetraethyl lead, liquid	Polis. B.	Poison.
Tetraethyl pyrophosphate and compressed gas mixture	Polis. A.	Poison gas.
Tetraethyl pyrophosphate, liquid	Polis. B.	Poison.
Tetraethyl pyrophosphate, mixture, dry	Polis. B.	Poison.
Tetraethyl pyrophosphate, mixture, liquid (see: "Tetraethyl pyrophosphate, liquid")	Polis. B.	Poison.
Tetrafluoroethylene, inhibited	Inf. G.	Red gas.
Tetranitromethane	Oxy. M.	Yellow.
<i>Tetrazene</i> (guanyl nitrosamino guanyltetrazene) (see: " <i>Initiating or priming explosives</i> ")		
<i>Tetryl</i> (see: "High explosives")		
Textile waste (see: "Cotton waste")	Haz.	
Textile waste, wet (see: "Rags, wet")	Inf. S.	Yellow.
Thallium salts, solid	Polis. B.	Poison.
Thallium sulfate, solid	Polis. B.	Poison.
*Thinners for rust preventive coating (see: "Rust preventive coating")	Comb. L.	
*Thinning compounds, paint, varnish, lacquer, etc. (see: "Compounds, lacquer, etc., removing, reducing or thinning")	Comb. L.	
* <i>Thinning compounds, paint, varnish, lacquer, etc.</i> (see: "Compounds, lacquer, etc., removing, reducing, or thinning")		
<i>Thiocarbonyl-chloride</i> (see: "Thiophosgene")		
Thionyl chloride	Cor. L.	White.
Thiophosgene ( <i>thiocarbonyl-chloride</i> )	Polis. B.	Poison.
Thiophosphoryl chloride	Cor. L.	White.
Thorium metal, powdered	Inf. S.	Yellow.
Time fuzes (see: "Fuzes")	Expl. C.	
Tin tetrachloride, anhydrous	Cor. L.	White.
Titanium metal powder, dry	Inf. S.	Yellow.
Titanium metal powder, wet, with not less than 20 percent water	Inf. S.	Yellow.
Titanium sulfate solution containing not more than 45% sulfuric acid	Cor. L.	White.
Titanium tetrachloride	Cor. L.	White.
Toluol ( <i>toluene</i> )	Inf. L.	Red.
<i>Torches</i> (see: "Fireworks, common")		
<i>Torpedoes, cap</i> (see: "Fireworks, special")		
<i>Torpedoes, empty</i> (see: "Ammunition for cannon, nonexplosive")		
<i>Torpedoes, explosive</i> (see: "Explosive torpedoes")		
<i>Torpedoes, railway or track</i> (see: "Railway torpedoes")		
Toy caps	Expl. C.	
Toy propellant devices	Expl. C.	
Toy smoke devices	Expl. C.	
<i>Toy torpedoes</i> (see: "Fireworks, special")		
Tracer fuzes (see: "Fuzes")	Expl. C.	
Tracers (see: "Fuzes")	Expl. C.	
Tractors (see: "Automobiles, motorcycles, tractors, etc.")	Haz.	
Treated paper ( <i>manufactured articles properly dried to prevent spontaneous heating</i> ) (see: "Oiled clothing")	Haz.	
Treated textiles ( <i>manufactured articles properly dried to prevent spontaneous heating</i> ) (see: "Oiled clothing")	Haz.	
Trichlorosilane	Inf. L.	Red.
Trichloroisocyanuric acid, dry, containing more than 39% available chlorine (see: "Dichloroisocyanuric acid, dry, containing more than 39% available chlorine")	Oxy. M.	Yellow.
Trick matches (see: "Explosive auto alarms, etc.")	Expl. C.	
Trick noise makers, explosive (see: "Explosive auto alarms")	Expl. C.	
Trifluorochloroethylene	Inf. G.	Red gas.
<i>Triisobutyl aluminum</i> (see "Pyroforic liquids, N.O.S.")		
Trimethylamine, anhydrous	Inf. G.	Red gas.
Trimethylamine, aqueous solution (see: "Dimethylamine, aqueous solution")	Inf. L.	Red.
Trimethylchlorosilane (see: "Ethyl trichlorosilane")	Inf. L.	Red.
Trinitrobenzene (see: "High explosives")		
Trinitrobenzene, wet ( <i>when wet with not less than 10 percent water and in a quantity not exceeding 16 ounces in one outside package</i> )	Inf. S.	Yellow.
Trinitrobenzoic acid, dry (see: "High explosives in dry condition")		
Trinitrobenzoic acid, wet, not exceeding 16 ounces	Inf. S.	Yellow.
<i>Trinitrobenzoic acid, wet, over 25 pounds</i> (see: " <i>High explosives (wet with not less than 10 pounds of water to each 90 pounds of dry material)</i> ")		

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.

Article	Classed as—	Label required <sup>1</sup>
Trinitrobenzoic acid, wet with not less than 10 percent water, in excess of 16 ounces but not exceeding 25 pounds.	Inf. S.	Yellow.
Trinitroresorcinol (see: "High explosives").		
Trinitrotoluene (see: "High explosives").		
Trinitrotoluene, wet (when wet with not less than 10 percent of water and in a quantity not exceeding 16 ounces in one outside package).	Inf. S.	Yellow.
Tris-(1-Aziridinyl) phosphine oxide.	Cor. L.	White.
Turpentine.	Comb. L.	
*Turpentine substitutes.	Comb. L.	
*Turpentine substitutes.	Inf. L.	Red.
Twisted jute packing (rope) (treated or untreated) (see: "Oakum").	Haz.	
Unstable explosives.	Prohibited.	
Uranium, normal or depleted, in solid metal form (not borings, chips or pieces) (see: § 146.25-25(f)).	Polis. D.	Radioactive materials (Red Special).
Urea nitrate, dry (see: "High explosives").		
Urea nitrate, wet with not less than 10 percent water in excess of 16 ounces but not exceeding 25 pounds.	Inf. S.	Yellow.
Urea nitrate, wet with not less than 10 percent water, not exceeding 16 ounces.	Inf. S.	
Urea nitrate, wet with not less than 10 percent of water, over 25 pounds (see: "High explosives").		
*Urea peroxide (see: "Organic peroxides").	Oxy. M.	Yellow.
Van or truck body with refrigerating or heating equipment on board vessels (see § 146.07-5(d) and § 146.08-55).		
*Varnish (see: "Paint, enamel, etc.")	Comb. L.	
*Varnish (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Varnish driers (see: "Paint, enamel, etc.")	Comb. L.	
*Varnish driers (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Varnish remover or reducer (see: "Compounds, lacquer, etc., removing, reducing, or thinning liquid").	Comb. L.	
*Varnish remover or reducer (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").	Inf. L.	Red.
*Varnish thinning compounds (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").	Comb. L.	
Varnish thinning compounds (see: "Compounds, lacquer, etc., removing, reducing or thinning, liquid").	Inf. L.	Red.
Very signal cartridges (see: "Flares and signalling devices").	Expl. O.	
Vinyl acetate.	Inf. L.	Red.
Vinyl chloride.	Inf. G.	Red gas.
Vinyl fluoride, inhibited.	Inf. G.	Red gas.
Vinyl methyl ether, inhibited.	Inf. G.	Red gas.
Vinyl trichlorosilane (see: "Ethyl trichlorosilane").	Inf. L.	Red.
Vinylidene chloride, inhibited.	Inf. L.	Red.
War heads (see: "Explosive projectiles").		
Waste paper, wet (see: "Paper stock, wet").	Inf. S.	Yellow.
Waste textile, wet (see: "Rags, wet").	Inf. S.	Yellow.
Waste wool, wet (see: "Rags, wet").	Inf. S.	Yellow.
*Water treatment compound, liquid.	Cor. L.	White.
Water white (export shipment only) (see: "Kerosene").	Comb. L.	
*Waxes, liquid.	Comb. L.	
*Weed killing compounds, liquid (see: "Compounds, tree or weed killing, liquid").		
Wet hair (see: "Hair, wet").	Inf. S.	Yellow.
Wet nitrocellulose—30 percent alcohol or solvent.	Inf. L.	Red.
Wet nitrocellulose—20 percent water.	Inf. S.	Yellow.
Wet nitrocellulose, colloided, granular or flake—20% alcohol or solvent; or block—25% alcohol.	Inf. L.	Red.
Wet nitrocellulose, colloided, granular or flake—20 percent water.	Inf. S.	Yellow.
Wet nitrocellulose flakes—20 percent alcohol or solvent (see: "Wet nitrocellulose, colloided, granular or flake—20 percent alcohol or solvent").	Inf. L.	Red.
Wet nitroguanidine—20 percent water.	Inf. S.	Yellow.
Wet nitrostarch—30 percent alcohol or solvent.	Inf. L.	Red.
Wet nitrostarch—20 percent water.	Inf. S.	Yellow.
Wet paper stock (see: "Paper stock, wet").	Inf. S.	Yellow.
Wet rags (see: "Rags, wet").	Inf. S.	Yellow.
Wet textile waste (see: "Rags, wet").	Inf. S.	Yellow.
Wet waste paper (see: "Paper stock, wet").	Inf. S.	Yellow.
Wet waste wool (see: "Rags, wet").	Inf. S.	Yellow.
Wood alcohol (methanol, methyl alcohol) (see: Alcohol, N. O. S.)	Inf. L.	Red.
*Wood filler (see: "Paint, enamel, etc.")	Comb. L.	
*Wood filler (see: "Paint, enamel, etc.")	Inf. L.	Red.
*Wood polish, liquid (see: "Polishes, metal, etc.")	Comb. L.	
*Wood polish, liquid (see: "Polishes, metal, etc.")	Inf. L.	Red.
Wood shavings (when dry, clean, and free from oil) (see: "Sawdust").	Haz.	
*Wood stain, liquid (see: "Paint, enamel, etc.")	Comb. L.	
*Wood stain, liquid (see: "Paint, enamel, etc.")	Inf. L.	Red.
Wool waste (see: "Cotton waste").	Haz.	
Wool waste, wet (see: "Rags, wet").	Inf. S.	Yellow.
X-ray film (nitrocellulose base) (see: "Motion-picture film (nitrocellulose base)").	Inf. S.	Yellow.
X-ray film (slow-burning) (see: "Motion-picture film (slow-burning)").	No restrictions.	
X-ray film scrap (nitrocellulose base) (see: "Motion-picture film scrap (nitrocellulose base)").	Inf. S.	Yellow.
X-ray film scrap (slow-burning) (see: "Motion-picture film (slow burning)").	No restrictions.	

<sup>1</sup> Unless otherwise exempt by the provisions of the detailed regulations.