



DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS REGULATIONS BOARD
WASHINGTON, D.C. 20590

11742

[49 CFR Parts 172, 173, 174, 175,
176, 177]

[Docket No. HM-8; Notice No. 70-13]

CLASSIFICATION AND LABELING OF
HAZARDOUS MATERIALS

Transportation of Hazardous
Materials

On October 16, 1968 (33 F.R. 15347), the Department of Transportation sought public advice and comment on adoption of the United Nations' hazardous materials classification and labeling system. Comments generally favored adopting the U.N. system. This notice proposes to (1) convert the existing labeling requirements to the U.N. system (with minor exceptions), (2) to completely revise the commodity list, and (3) to revise some of the hazard classification categories.

ANALYSIS OF COMMENTS

Most of the comments indicated that the question of redefinition of flammable and combustible liquids remains highly controversial. Most of the controversy stemmed from a concern that new packaging requirements would be imposed for combustible liquid shipments, and from the continuing argument as to whether the closed cup or the open cup method should be prescribed. The open cup method is being retained for the present, keeping the limit at 80° F. for flammable liquids. Most nonshipper comments on combustible liquids indicated a need for identification of vehicles carrying combustible liquids. The question of combustible liquids is being covered in a separate rule-making action. Accordingly, this notice will be generally limited to those changes necessary to effect a meaningful conversion from the present labels to the U.N. labels.

Concern was expressed by numerous commenters that previously established packaging procedures would be changed by the changes in classification. To prevent this, the same packaging references are used for those reclassified items in almost all cases. If rearrangement is necessary at a later time, it will be the subject of a separate rule-making action.

A number of commenters suggested that the labels could be blown up to a 10" x 10" size for use as placards on rail cars and on container vans for water shipment. This notice deals primarily with labels for packages. Rail and highway placarding generally will be the subject of separate rule-making action.

The only new hazard classification items covered in this notice are etiologic agents, and a separation of the present flammable liquids and solids categories into flammable liquids, flammable solids, water-reactive materials, and spontaneously combustible materials. The Board recognizes the continuing need for benchmark tests for these materials, and is undertaking to develop those benchmarks.

The present term "tear gas, poison class C" would be replaced by the term "irritant". This is to bring the Department's terminology more in line with the terminology used by the Departments of Defense, Agriculture, and Health, Education, and Welfare. At present, users of these materials refer to the materials by one name during use or storage, and a different name for transportation.

About half of the comments pertained to the provisions for etiologic materials. Many commenters objected to including etiologic agents as "poisonous materials". Others suggested that the transportation of these materials are already adequately regulated by other government agencies. The Department has coordinated this proposal with the Departments of Defense, Agriculture, and Health, Education, and Welfare. The Transportation of Explosives Act (18 U.S.C. 831-835) clearly assigns this jurisdiction to the Department of Transportation. The inclusion of etiologic agents as poisonous materials is in conformance with the U.N. system. Therefore, the proposed classification of etiologic agents is retained in this notice.

There was almost unanimous disagreement with the use of the skull-and-crossbones symbol for etiologic agents. Since the U.N. system does not prescribe a label for etiologic agents, the Board is proposing use of the symbol developed by the National Cancer Institute of the Public Health Service.

Several commenters objected to the use of the U.N. numbering system on the labels. Although a need for the use of these numbers in domestic shipments has not yet been clearly defined, the numbers are important in international shipments. This notice proposes as an alternate method, to leave the numbers off the labels for routine domestic use, but permit them to be over stamped on the labels for all export shipments. Import shipments may have the numbered labels, of course. Further comments would be useful on this matter.

The Board has decided to postpone the inclusion of corrosive solids until a later rule-making action.

There was adverse comment to the requirement that classes A, B, and C explosives all carry the same type of label. While there is merit in the objection, we are keeping the labels consistent with the U.N. system, but are providing exemptions to labeling for certain class C explosives of minimal risk.

Several commenters suggested that explosive (class C) and organic peroxides should really be classified as flammable solids and explosives, respectively. While those comments have some merit, their adoption would not be appropriate in this notice. This may be considered later when setting up benchmarks and tests to be used in classification of materials.

Many commenters expressed concern about the U.N. system of multiple labels; This notice retains the present single

hazard labeling concept, with the existing exceptions. If multiple labeling is necessary for safety, it will be proposed in a separate rule-making action.

OTHER PROPOSED CHANGES

It appears that several basic types of information are needed by those who may be exposed to hazardous materials between the producer and the consumer. These include:

1. *General warning.* This should indicate the presence and nature of the hazard. This warning would be provided by the color, hazard symbol, and hazard name, as described in the request for public advice, and retained in this proposal.

2. *Special handling precautions.* These should consist of "alert" words or short phrases. Long, "small print" statements are likely to go unread. The Board proposes to include the "DANGER/WARNING/CAUTION" system used by the Departments of Agriculture, and Health, Education, and Welfare in order to provide greater uniformity with other governmental requirements. Specific comments are requested on the usefulness of this system.

3. *Emergency procedures.* Information is needed, but we doubt whether this detailed information should be included on the primary warning label.

With regard to the special handling precautions, a number of suggestions were made to the Board as to the exact words to be used. These suggestions included the following listed approximately in order of priority:

Explosive A:

*KEEP AWAY FROM HEAT, SPARKS, AND
OPEN FLAME
HANDLE CAREFULLY
DO NOT DROP

Explosive B:

*KEEP AWAY FROM HEAT, SPARKS, AND
OPEN FLAME
HANDLE CAREFULLY

Explosive C:

*KEEP AWAY FROM HEAT, SPARKS, AND
OPEN FLAME

Nonflammable Compressed Gas:

*KEEP AWAY FROM HEAT AND FIRE
DO NOT DROP
CONTENTS UNDER PRESSURE

Flammable Compressed Gas:

*KEEP AWAY FROM HEAT, SPARKS, AND
OPEN FLAME
HANDLE CAREFULLY
DO NOT DEC.
*VENTILATED STORAGE ONLY
CONTENTS UNDER PRESSURE
REMOVE DAMAGED PACKAGES TO SAFE
PLACE

Poison Gas:

*KEEP AWAY FROM HEAT AND FIRE
HANDLE CAREFULLY
DO NOT DROP
AVOID BREATHING GAS
BEWARE OF FUMES—AVOID INHALATION
VENTILATED STORAGE ONLY
CONTENTS UNDER PRESSURE

The Board proposes to require that the phrases marked with an asterisk () appear on each label.

Flammable Liquid:

- *KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME
- *VENTILATED STORAGE ONLY
- REMOVE LEAKING PACKAGES TO SAFE PLACE

Flammable Solid:

- *KEEP AWAY FROM HEAT AND OPEN FLAME

Spontaneously Combustible Material:

- *KEEP AWAY FROM HEAT AND OPEN FLAME
- *VENTILATED STORAGE ONLY

Water-Reactive Material:

- *DO NOT APPLY WATER TO CONTENTS
- *KEEP DRY

Oxidizing Material:

- *DO NOT STORE NEAR COMBUSTIBLE MATERIALS

Organic Peroxide:

- *KEEP AWAY FROM FIRE AND OPEN FLAME
- *DO NOT STORE NEAR COMBUSTIBLE MATERIALS
- *HANDLE CAREFULLY
- VENTILATED STORAGE ONLY
- REMOVE DAMAGED PACKAGES TO SAFE PLACE

Poison A:

- *KEEP AWAY FROM FOOD PRODUCTS
- *WASH THOROUGHLY AFTER HANDLING
- *HARMFUL OR FATAL IF TAKEN INTO BODY

IF LEAKING: DO NOT TOUCH CONTENTS OR BREATHE FUMES

HANDLE CAREFULLY

Poison B:

- *KEEP AWAY FROM FOOD PRODUCTS
- *WASH THOROUGHLY AFTER HANDLING
- *HARMFUL OR FATAL IF TAKEN INTO BODY

IF LEAKING: DO NOT TOUCH CONTENTS

HANDLE CAREFULLY

Irritant:

- *WASH THOROUGHLY AFTER HANDLING
- *AVOID IRRITATING FUMES

Etiologic:

- *IF LEAKING OR BROKEN: EVACUATE AREA, DO NOT TOUCH
- *HANDLE CAREFULLY
- *KEEP AWAY FROM FOOD PRODUCTS
- WASH THOROUGHLY AFTER HANDLING

Corrosive Liquid:

- *WASH THOROUGHLY AFTER HANDLING
- *FLUSH SPILLAGE WITH WATER
- REMOVE LEAKING PACKAGES TO SAFE PLACE

Some of this suggested label information is duplicative, and in some cases it is probably not possible to include all of the informational items. Commenters who believe that a different priority would be more appropriate should indicate their preference.

Although the list of commodities (§ 172.5) would be completely revised to reflect the new labels, no previously unregulated specific commodities have been added to the list.

Additional columns would be added to the commodity list for cargo aircraft and passenger aircraft limitations. The quantity limits specified for air are taken from the Air Transport Association Tariff 6(D), supplemented as appropriate by data from the International Air Transport Association regulations.

The terms "mark", "label", and "placard" have often been misused and misunderstood. Definitions of those terms have been proposed to help in the proper

application of these terms. The terms "not accepted" and "forbidden" would be clarified to reflect current usage and needs.

In Subpart D, new definitions are proposed for flammable solids, spontaneously combustible materials, and water-reactive materials. For the most part, the redefinitions are only a rearrangement of the terms of the present definitions for flammable solids.

The Board hopes to consolidate all of the definitions, which are presently scattered throughout the regulations into Part 171. Although this notice proposes to place the new and revised definitions in the format of the present regulations, the Board intends in the final rule to make that consolidation.

The general marking and labeling requirements in §§ 173.402 through 173.414 would be revised to provide for the new labeling usage. Numerous editorial changes would be made in the final rule to incorporate the proper names and section references for the new labels. Since these changes are not substantive in nature, they are not listed specifically herein. Examples are §§ 173.25, 173.29, 173.119, and 173.134.

If the proposed labeling system is adopted, numerous other changes relating to shipments of hazardous materials may also be desirable, and would be proposed at a later date.

SUBMISSION OF COMMENTS

Interested persons are invited to give their views on this proposal. Communications should identify the docket number and be submitted in duplicate to the Secretary, Hazardous Materials Regulations Board, Department of Transportation, 400 Sixth Street, SW., Washington, D.C. 20590. Communications received on or before October 15, 1970 will be considered before final action is taken on the proposal. All comments received will be available for examination by interested persons at the Office of the Secretary, Hazardous Materials Regulations Board, both before and after the closing date for comments.

These proposals are made under the authority of sections 831-835 of title 18, United States Code, section 9 of the De-

partment of Transportation Act (49 U.S.C. 1657), and Title VI and section 902(h) of the Federal Aviation Act of 1958 (49 U.S.C. 1421-1430 and 1472(h)).

I. Part 172 would be amended as follows:

(A) In Part 172 table of contents, §§ 172.4, 172.5 would be amended to read as follows:

Sec.	
172.4	Classifications, abbreviations, labels, terms, and symbols.
172.5	Commodity list of hazardous materials.

(B) Part 172 Heading would be amended to read as follows:

PART 172—COMMODITY LIST OF HAZARDOUS MATERIALS SUBJECT TO PARTS 170-189 OF THIS CHAPTER

(C) Section 172.4 would be amended to read as follows:

§ 172.4 Classifications, abbreviations, labels, terms, and symbols.

(a) This paragraph lists all of the hazard classifications covered by Parts 170-189 of this chapter and the kind of label assigned to each classification. It lists the abbreviations, as used in § 172.5, for each classification. Also provided is the grouping of classifications within classes 1 through 8 of the United Nations classification system.

Classification	Abbreviation	Label(s)
Class 1:		
Explosive, class A.....	Expl. A....	Orange A.
Explosive, class B.....	Expl. B....	Orange B.
Explosive, class C.....	Expl. C....	Orange C.
Class 2:		
Nonflammable compressed gas.	Nonf. G....	Green.
Flammable compressed gas.	F.G.....	Red Gas.
Class 3:		
Flammable liquid.....	F.L.....	Red.
Class 4:		
Flammable solid.....	F.S.....	Red Striped.
Spontaneously combustible material.	SOM.....	Red Bottom.
Water-reactive material....	WRM.....	Blue.
Class 5:		
Oxidizing material.....	Oxy. M....	Yellow or Peroxide.
Class 6:		
Poison, gas or liquid, class A.	Pois. A....	Poison Gas or Poison A.
Poison, solid or liquid, class B.	Pois. B....	Poison B.
Irritating agent.....	Irr.....	Irritant.
Etiologic agent.....	Eti.....	Etiologic.
Class 7:		
Radioactive material.....	RAM.....	Radioactive.
Class 8:		
Corrosive liquid.....	Cor. L....	Corrosive Liquid.

(b) Terms, abbreviations, and symbols.

(1) "Not accepted"—means not to be offered for transportation, or transported by rail express, air, or passenger-carrying transport vehicle.

(2) "Forbidden"—means not to be offered for transportation, or transported, by any mode.

(3) "*"—means that the material may or may not be classed as a hazardous material under the definition for each classification in Part 173 of this chapter.

(4) "n.o.s."—means not otherwise specified.

(5) "φ"—means that articles may be transported as rail baggage.

(6) "Mark or marking"—means the prescribed words or symbols, applied directly on the outside surface of a package to identify the packaging or its contents, but not including a label. Examples of marking are the shipping name of the contents, hazard classification, specification identification, and test dates.

(7) "Label or labeling"—means the prescribed identification on the outside surface of a package that includes a color-code, a symbol, and a descriptive legend denoting the hazardous nature of the contents of the package.

(8) "Placard or placarding"—means the prescribed identification on the outside surface of a transport vehicle that includes a color-code and a descriptive legend denoting the hazardous nature of the contents of the transport vehicle.

(D) In § 172.5 the heading and the complete commodity list would be amended to read as follows:

§ 172.5 Commodity list of hazardous materials.

COMMODITY LIST OF HAZARDOUS MATERIALS

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
Accumulator, pressurized (pneumatic or hydraulic), containing non-flammable gas.	Nonf. G.	173.306(e)	Green	No limit.	No limit.	No limit.
Acetaldehyde (ethyl aldehyde)	F.L.	173.118, 173.119	Red	10 gallons	1 quart.	10 gallons.
Acetone	F.L.	173.118, 173.119	do	do	do	Do.
Acetone cyanohydrin	Pois. B.	173.345, 173.346	Poison B	55 gallons	do	55 gallons.
*Acetone oils	F.L.	173.118, 173.119	Red	10 gallons	do	10 gallons.
Acetonitrile	F.L.	173.118, 173.119	do	do	do	Do.
Acetyl benzoyl peroxide, solid, or solution containing more than 40% peroxide.	Oxy. M.	Forbidden				
Acetyl benzoyl peroxide, solution containing 40% or less peroxide.	Oxy. M.	No exemption, 173.222	Peroxide	1 quart.	Not accepted.	1 quart.
Acetyl chloride	Cor. L.	173.244, 173.247	Corrosive liquid	1 gallon	1 quart.	1 gallon.
Acetylene	F.G.	173.306, 173.308	Red gas	300 pounds	Not accepted.	300 pounds.
Acetyl peroxide, solid or solution containing more than 25% peroxide.	Oxy. M.	Forbidden				
Acetyl peroxide, solution containing 25% or less peroxide.	Oxy. M.	173.153(b), 173.222	Peroxide	1 quart.	Not accepted.	1 quart.
Acids, liquid, n.o.s.	Cor. L.	173.244, 173.245	Corrosive liquid	5 pints	1 quart.	5 pints.
*Acid, sludge	Cor. L.	No exemption, 173.248	do	1 quart.	Not accepted.	1 quart.
Acrolein, inhibited	F.L.	No exemption, 173.123	Red	do	do	Do.
Acrylonitrile	F.L.	173.118, 173.119	do	10 gallons	1 quart.	10 gallons.
Actuating cartridges, explosive fire extinguisher or valve.	Expl. C.	173.114	Orange C	150 pounds	50 pounds	150 pounds.
*Adhesives, n.o.s. See Cement, liquid, n.o.s.						
Aeroplane flares. See Fireworks, special.						
Aerosol products. See Compressed gases, n.o.s.						
Air, compressed	Nonf. G.	173.306, 173.302	Green	300 pounds	150 pounds	300 pounds.
Aircraft rocket engines (commercial)	F.S.	No exemption, 173.238	Red Striped	550 pounds	Not accepted.	550 pounds.
Aircraft rocket engine igniters (commercial)	F.S.	No exemption, 173.238	do	25 pounds	do	25 pounds.
*Alcohol, n.o.s.	F.L.	173.118, 173.125	Red	10 gallons	1 quart.	10 gallons.
Aldrin	Pois. B.	173.364, 173.376	Poison B	200 pounds	50 pounds	200 pounds.
Aldrin mixtures, dry, with more than 65% aldrin.	Pois. B.	173.364, 173.376	do	do	do	Do.
Aldrin mixtures, liquid, with more than 67% aldrin.	Pois. B.	173.345, 173.361	do	55 gallons	1 quart.	55 gallons.
*Alkaline caustic liquids, n.o.s.	Cor. L.	173.244, 173.249	Corrosive Liquid	10 gallons	do	5 gallons.
Alkaline corrosive battery fluid	Cor. L.	173.244, 173.249, 173.257	do	do	do	Do.
Alkaline corrosive battery fluid with storage battery.	Cor. L.	No exemption, 173.258	do	400 pounds	Not accepted.	5 pints.
Alkaline corrosive liquids, n.o.s.	Cor. L.	173.244, 173.249	do	10 gallons	1 quart.	5 gallons.
Alkali aluminum halides. See Spontaneously combustible liquids or solids.						
Allyl alcohol	Pois. B.	173.345, 173.346	Poison B	55 gallons	do	55 gallons.
Allyl bromide	F.L.	173.118, 173.119	Red	10 gallons	do	10 gallons.

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Allyl chloroformate (chlorocarbonate).....	Cor. L.....	No exemption, 173.263.....	Corrosive Liquid.....	5 pints.....	Not accepted.....	5 pints.....
Allyl trichlorosilane.....	Cor. L.....	No exemption, 173.260.....	do.....	10 gallons.....	do.....	10 gallons.....
Aluminum alkyls. See Spontaneously combustible liquids, n.o.s.						
Aluminum dross, wet or hot.....	SCM.....	Forbidden 173.173.....				
*Aluminum liquid (or paint). See *Paint, enamel, lacquer, stain, shellac, varnish, etc.						
Aluminum nitrate.....	Oxy. M.....	173.153, 173.152.....	Yellow.....	100 pounds.....	25 pounds.....	100 pounds.....
Amatel. See High explosives						
Ammonia, anhydrous.....	Nonf. G.....	173.306, 173.304, 173.314, 173.315.....	Green.....	300 pounds.....	Not accepted.....	300 pounds.....
Ammonium arsenate, solid.....	Pois. B.....	173.364, 173.365.....	Poison B.....	200 pounds.....	50 pounds.....	200 pounds.....
Ammonium bichromate (ammonium dichromate).....	F.S.....	173.153, 173.154, 173.235.....	Red Striped.....	100 pounds.....	25 pounds.....	100 pounds.....
Ammonium nitrate.....	Oxy. M.....	173.153, 173.152.....	Yellow.....	do.....	do.....	Do.....
Ammonium nitrate-carbonate mixtures.....	Oxy. M.....	173.153, 173.152.....	do.....	do.....	do.....	Do.....
Ammonium nitrate fertilizer, containing 90% or more ammonium nitrate with no organic coating.....	Oxy. M.....	173.153, 173.152.....	do.....	do.....	do.....	Do.....
Ammonium nitrate-fuel oil. See Nitro carbo nitrate						
*Ammonium nitrate mixed fertilizer.....	Oxy. M.....	173.153, 173.152.....	do.....	do.....	do.....	Do.....
Ammonium nitrate (organic coating).....	Oxy. M.....	173.153, 173.152.....	do.....	do.....	do.....	Do.....
*Ammonium nitrate-phosphate.....	Oxy. M.....	173.153, 173.152.....	do.....	do.....	do.....	Do.....
Ammonium perchlorate.....	Oxy. M.....	173.153, 173.154, 173.239a.....	do.....	do.....	do.....	Do.....
Ammonium permanganate.....	Oxy. M.....	173.153, 173.154.....	do.....	do.....	Not accepted.....	Not accepted.....
Ammonium picrate. See High explosives						
Ammonium picrate, wet (not to exceed 16 ounces).....	F.S.....	173.192.....	None.....	1 pound.....	do.....	1 pound.....
Ammunition, chemical (containing class A poisons, liquids, or gases). See Chemical ammunition.						
Ammunition, chemical (containing class B poisons, liquids, or gases). See Chemical ammunition.						
Ammunition, chemical (containing class C poisons, liquids, or solids). See Chemical ammunition.						
Ammunition, chemical explosive (with fuses or bursting charges).....	Expl. A.....	173.55.....	Orange A.....	Not accepted.....	do.....	Not accepted.....
Ammunition, nonexplosive.....						
Ammunition for cannon with empty projectiles.....	Expl. B.....	No exemption, 173.59.....	Orange B.....	Not accepted.....	Not accepted.....	Do.....
Ammunition for cannon with explosive projectiles.....	Expl. A.....	No exemption, 173.54.....	Orange A.....	do.....	do.....	Do.....
Ammunition for cannon with gas projectiles.....	Expl. A.....	No exemption, 173.54.....	do.....	do.....	do.....	Do.....
Ammunition for cannon with illuminating projectiles.....	Expl. A.....	No exemption, 173.54.....	do.....	do.....	do.....	Do.....
Ammunition for cannon with incendiary projectiles.....	Expl. A.....	No exemption, 173.54.....	do.....	do.....	do.....	Do.....
Ammunition for cannon with inert loaded projectiles.....	Expl. B.....	No exemption, 173.59.....	Orange B.....	do.....	do.....	Do.....
Ammunition for cannon with smoke projectiles.....	Expl. A.....	No exemption, 173.54.....	Orange A.....	do.....	do.....	Do.....
Ammunition for cannon with solid projectiles.....	Expl. B.....	No exemption, 173.59.....	Orange B.....	do.....	do.....	Do.....
Ammunition for cannon without projectiles.....	Expl. B.....	No exemption, 173.59.....	do.....	do.....	do.....	Do.....
Ammunition, rocket. See Rocket ammunition.						
Ammunition, small-arms. See Small-arms ammunition.						
Ammunition for small-arms with explosive projectiles.....	Expl. A.....	No exemption, 173.58.....	Orange A.....	do.....	do.....	Do.....
Ammunition for small-arms with incendiary projectiles.....	Expl. A.....	No exemption, 173.58.....	do.....	do.....	do.....	Do.....
*Amyl acetate (commercial grade).....	F.L.....	173.118, 173.119.....	Red.....	10 gallons.....	1 quart.....	10 gallons.....
Amyl chloride.....	F.L.....	173.118, 173.119.....	do.....	do.....	do.....	Do.....
Amyl mercaptan.....	F.L.....	No exemption, 173.141.....	do.....	do.....	Not accepted.....	Do.....
Amyl nitrate.....	F.L.....	173.118, 173.119.....	do.....	do.....	1 quart.....	Do.....
Amyl trichlorosilane.....	Cor. L.....	No exemption, 173.260.....	Corrosive Liquid.....	do.....	Not accepted.....	Do.....
Anhydrous ammonia. See Ammonia, anhydrous.						
Anhydrous hydrazine. See Hydrazine, anhydrous.						
Anhydrous hydrofluoric acid. See Hydrogen fluoride.						
Aniline oil, liquid.....	Pois. B.....	No exemption, 173.347.....	Poison B.....	55 gallons.....	do.....	55 gallons.....
Anisoyl chloride.....	Cor. L.....	173.244, 173.275.....	Corrosive Liquid.....	1 quart.....	1 quart.....	1 quart.....
*Antifreeze compounds, liquid.....	F.L.....	173.118, 173.119.....	Red.....	10 gallons.....	Not accepted.....	10 gallons.....
*Antifreeze preparations proprietary, liquid.....	F.L.....	173.118, 173.119.....	do.....	do.....	do.....	Do.....
Antimony pentachloride.....	Cor. L.....	173.244, 173.247.....	Corrosive Liquid.....	1 quart.....	1 quart.....	1 quart.....
Antimony pentachloride, solution.....	Cor. L.....	173.244, 173.245.....	do.....	5 pints.....	do.....	5 pints.....
Antimony pentafluoride.....	Cor. L.....	No exemption, 173.246.....	do.....	25 pounds.....	Not accepted.....	25 pounds.....
*Aqua ammonia solution containing anhydrous ammonia.....	Nonf. G.....	173.306, 173.304, 173.314, 173.315.....	Green.....	300 pounds.....	do.....	300 pounds.....
Argon.....	Nonf. G.....	173.306, 173.302, 173.314.....	do.....	do.....	150 pounds.....	Do.....
Argon, liquefied.....	Nonf. G.....	No exemption, 173.304.....	do.....	do.....	Not accepted.....	Do.....
Arsenic acid, liquid.....	Pois. B.....	173.245, 173.246.....	Poison B.....	55 gallons.....	1 quart.....	55 gallons.....
Arsenic acid, solid.....	Pois. B.....	173.264, 173.265.....	do.....	200 pounds.....	50 pounds.....	200 pounds.....
Arsenic bromide, solid.....	Pois. B.....	173.264, 173.265.....	do.....	do.....	do.....	Do.....
Arsenic chloride (arsenous) liquid.....	Pois. B.....	173.245, 173.246.....	do.....	55 gallons.....	1 quart.....	55 gallons.....
Arsenic iodide, solid.....	Pois. B.....	173.264, 173.265.....	do.....	200 pounds.....	50 pounds.....	200 pounds.....
Arsenic pentoxide, solid.....	Pois. B.....	173.264, 173.265.....	do.....	do.....	do.....	Do.....
Arsenic solid.....	Pois. B.....	173.264, 173.265.....	do.....	do.....	do.....	Do.....
Arsenic sulfide, solid.....	Pois. B.....	173.264, 173.265.....	do.....	do.....	do.....	Do.....
Arsenic trichloride, liquid.....	Pois. B.....	173.245, 173.246.....	do.....	55 gallons.....	1 quart.....	55 gallons.....
Arsenic trioxide, solid (arsenic, white, solid, arsenous acid, solid).....	Pois. B.....	173.264, 173.265.....	do.....	200 gallons.....	50 pounds.....	200 pounds.....
Arsenic, white solid.....	Pois. B.....	173.264, 173.265.....	do.....	do.....	do.....	Do.....
Arsenical compounds or mixtures, n.o.s., liquid.....	Pois. B.....	173.245, 173.246.....	do.....	55 gallons.....	1 quart.....	55 gallons.....
Arsenical compounds or mixtures, n.o.s., solid.....	Pois. B.....	173.264, 173.267.....	do.....	200 pounds.....	50 pounds.....	200 pounds.....
Arsenical dip, liquid (sheep dip).....	Pois. B.....	173.245, 173.246.....	do.....	55 gallons.....	1 quart.....	55 gallons.....
Arsenical dust.....	Pois. B.....	173.264, 173.265.....	do.....	200 pounds.....	50 pounds.....	200 pounds.....
Arsenical fume dust.....	Pois. B.....	173.264, 173.265.....	do.....	do.....	do.....	Do.....
Arsenous acid, solid.....	Pois. B.....	173.264, 173.265.....	do.....	do.....	do.....	Do.....
Arsenous and mercuric iodide solution, liquid.....	Pois. B.....	173.245, 173.246.....	do.....	55 gallons.....	1 quart.....	55 gallons.....
*Asphalt, cut-back.....	F.L.....	173.118, 173.131.....	Red.....	10 gallons.....	do.....	10 gallons.....
Automobiles, motorcycles, tractors, or other self-propelled vehicles.....		See 173.120, 173.208.....				
Automobiles, motorcycles, tractors, or other self-propelled vehicles, engines or other mechanical apparatus, with charged electric storage batteries, wet.....		See 173.250.....				
1-Aziridinyl phosphine oxide (tris). See Tris-(1-aziridinyl) phosphine oxide.						

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
Bags, sodium nitrate, empty and unwashed	F.S.	No exemption, 173.155(a)	Red Striped	25 pounds	Not accepted	25 pounds
Barium aside—50% or more water, wet	F.S.	No exemption, 173.230	do	1 pound	do	1 pound
Barium chlorate	Oxy. M.	173.153, 173.163	Yellow	100 pounds	25 pounds	100 pounds
Barium chlorate, wet	Oxy. M.	173.153, 173.163(a)(6)	do	200 pounds	do	200 pounds
Barium cyanide, solid	Pols. B.	173.370	Poison B.	do	do	Do.
Barium nitrate	Oxy. M.	173.153, 173.163	Yellow	100 pounds	do	100 pounds
Barium perchlorate	Oxy. M.	173.153, 173.164	do	do	do	Do.
Barium permanganate	Oxy. M.	173.153, 173.164	do	do	do	Do.
Barium peroxide (binoxide, dioxide)	Oxy. M.	173.153, 173.166	do	do	do	Do.
Batteries, dry		Not regulated				Do.
Batteries, electric storage, wet	Cor. L.	173.256, 173.260	Corrosive liquid	600 pounds	Not accepted	No limit.
Batteries, electric storage, wet, with automobiles, auto parts, engines or other mechanical apparatus	Cor. L.	173.250, 173.260	do	No limit	No limit	Do.
Battery charger with electrolyte (acid or alkaline battery fluid)	Cor. L.	173.250	do	5 gallons	Not accepted	5 pints.
Battery fluid. See Electrolyte (acid) or Alkaline corrosive battery fluid.						
Benzene (benzol)	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Benzene phosphorus dichloride	Cor. L.	173.244, 173.250a	Corrosive liquid	5 pints	Not accepted	5 pints.
Benzene phosphorus trichloride	Cor. L.	173.244, 173.250a	do	do	do	Do.
Benzine	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Benzoyl chloride	Cor. L.	173.244, 173.247	Corrosive Liquid	1 quart	do	1 quart.
Benzoyl peroxide	Oxy. M.	No exemption, 173.157, 173.166	Peroxide	25 pounds	Not accepted	25 pounds.
Benzyl bromide (bromotoluene, alpha)	Cor. L.	No exemption, 173.281	Corrosive Liquid	5 pints	do	5 pints.
Benzyl chloride	Cor. L.	173.244, 173.295	do	1 quart	1 quart	1 quart.
Benzyl chloroformate (chlorocarbonate)	Cor. L.	No exemption, 173.298	do	5 pints	Not accepted	5 pints.
Beryllium compounds, n.o.s.	Pols. B.	173.364, 173.365	Poison B.	200 pounds	50 pounds	200 pounds.
Black powder	Expl. A.	No exemption, 173.60	Orange A	Not accepted	Not accepted	Not accepted.
Black powder igniters with empty cartridge bags	Expl. C.	No exemption, 173.106	Orange C	150 pounds	50 pounds	150 pounds.
Blasting caps—1,000 or less	Expl. C.	No exemption, 173.103	do	See 173.86	Not accepted	Not accepted.
Blasting caps—more than 1,000	Expl. A.	No exemption, 173.66	Orange A	Not accepted	do	Do.
Blasting caps—electric, 1,000 or less	Expl. C.	No exemption, 173.103	Orange C	See 173.86	do	Do.
Blasting caps—electric, more than 1,000	Expl. A.	No exemption, 173.66	Orange A	Not accepted	do	Do.
Blasting caps with metal clad mild detonating fuse—1,000 or less	Expl. C.	No exemption, 173.103	Orange C	do	do	Do.
Blasting caps with metal clad mild detonating fuse—more than 1,000	Expl. A.	No exemption, 173.66(c), 173.67	Orange A	do	do	Do.
Blasting caps with safety fuse—1,000 or less	Expl. C.	No exemption, 173.103	Orange C	See 173.86	do	Do.
Blasting caps with safety fuse—more than 1,000	Expl. A.	No exemption, 173.66(c), 173.67	Orange A	Not accepted	do	Do.
Blasting gelatin. See High explosives.						
Blasting powder. See Black powder.						
Boiler compound, liquid	Cor. L.	173.244, 173.249	Corrosive Liquid	10 gallons	1 quart	10 gallons.
Bombs, explosive. See Explosive bomb.						
Bombs, explosive, with gas, smoke, or incendiary material. See Explosive bomb.						
Bombs, fireworks. See Fireworks, special.						
Bombs, gas, smoke or incendiary, non-explosive. See Chemical ammunition.						
Bombs, incendiary, or smoke without bursting charges. See Fireworks, special.						
Bombs, practice, with electric primers or electric squibs (nonexplosive)		See 173.55				
Bombs, sand-loaded or empty (nonexplosive)		See 173.55				
Boosters (explosive)	Expl. A.	No exemption, 173.69	Orange A	Not accepted	Not accepted	Not accepted.
Bordeaux arsenites, liquid	Pols. B.	173.345, 173.346	Poison B.	55 gallons	1 quart	55 gallons.
Bordeaux arsenites, solid	Pols. B.	173.364, 173.365	do	200 pounds	50 pounds	200 pounds.
Boron trichloride	Cor. L.	No exemption, 173.251	Corrosive Liquid	1 quart	Not accepted	1 quart.
Boron trifluoride	Nonf. G.	173.306, 173.307	Green	300 pounds	do	300 pounds.
*Box toe gum	F.L.	173.118, 173.119	Red	10 gallons	do	10 gallons.
Bromine	Cor. L.	No exemption, 173.252	Corrosive Liquid	1 quart	do	1 quart.
Bromine pentafluoride	Cor. L.	No exemption, 173.284	do	100 pounds	do	100 pounds.
Bromine trifluoride	Cor. L.	No exemption, 173.283	do	do	do	Do.
Bromocetone, liquid	Pols. A.	No exemption, 173.329(a)	Poison A	Not accepted	do	Not accepted.
Bromobenzyl cyanide, liquid	Irr.	No exemption, 173.382	Irritant	20 pounds	do	20 pounds.
Bromotoluene, alpha. See Benzyl bromide						
Brucine, solid (dimethoxy strychnine)	Pols. B.	173.364, 173.365	Poison B.	200 pounds	50 pounds	200 pounds.
Burnt cotton (not repicked)	F.S.	No exemption, 173.159	Red Striped	Not accepted	Not accepted	Not accepted.
Burnt fiber	F.S.	No exemption, 173.169	do	do	do	Do.
Bursters (explosive)	Expl. A.	No exemption, 173.69	do	do	do	Do.
Butadiene, inhibited	F.G.	173.308, 173.304, 173.314, 173.315	Red Gas	300 pounds	do	300 pounds.
Butane. See Liquefied petroleum gas.						
*Butyl acetate	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
*Butyl alcohol. See Alcohol, n.o.s.						
Butyl mercaptan	F.L.	No exemption, 173.141	do	do	Not accepted	Do.
Butyl trichloroallane	Cor. L.	No exemption, 173.280	Corrosive Liquid	do	do	Do.
Butyraldehyde	F.L.	173.118, 173.119	Red	do	1 quart	Do.
Caecodylic acid, solid (dimethylarsenic)	Pols. B.	173.364, 173.365	Poison B.	200 pounds	50 pounds	200 pounds.
Calcium arsenate, solid	Pols. B.	173.364, 173.367, 173.368	do	do	do	Do.
Calcium arsenite, solid	Pols. B.	173.364, 173.365	do	do	do	Do.
Calcium chlorate	Oxy. M.	173.153, 173.163	Yellow	100 pounds	25 pounds	100 pounds.
Calcium chlorite	Oxy. M.	No exemption, 173.160	do	do	Not accepted	Do.
Calcium cyanide	Pols. B.	173.370 (c) and (d)	Poison B.	200 pounds	25 pounds	200 pounds.
Calcium hypochlorite compounds (dry, containing more than 30% available chlorine)	Oxy. M.	173.153, 173.217	Yellow	100 pounds	50 pounds	100 pounds.
Calcium, metallic	WRM.	173.153, 173.154	Blue	do	25 pounds	Do.
Calcium, metallic, crystalline	WRM.	No exemption, 173.281	do	25 pounds	Not accepted	25 pounds.
Calcium nitrate	Oxy. M.	173.153, 173.152	Yellow	100 pounds	25 pounds	100 pounds.
Calcium permanganate	Oxy. M.	173.153, 173.154	do	do	do	Do.
Calcium peroxide	Oxy. M.	173.153, 173.156	do	do	do	Do.
Calcium phosphide	WRM.	No exemption, 173.161	Blue	25 pounds	Not accepted	25 pounds.
Calcium resinate	F.S.	No exemption, 173.166	Red Striped	125 pounds	do	125 pounds.
Calcium resinate, fused	F.S.	No exemption, 173.166	do	do	do	Do.
Cannon primers	Expl. C.	No exemption, 173.107	Orange C	150 pounds	50 pounds	150 pounds.
Caps, blasting. See Blasting caps.						
Caps, toy. See Toy caps.						
Caprylyl peroxide solution	Oxy. M.	173.153(b), 173.221	Peroxide	1 quart	1 quart	1 quart.
Carbolic acid (phenol), liquid (liquid tar acid containing over 80% benzene-phenol)	Pols. B.	173.345, 173.349	Poison B.	55 gallons	do	55 gallons.
Carbolic acid (phenol) solid	Pols. B.	173.360	do	250 pounds	50 pounds	250 pounds.

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
Carbon bisulfide (disulfide)	F.L.	No exemption, 173.121	Red	Not accepted	Not accepted	Not accepted
Carbon dioxide gas, liquefied ("mining device")	Nonf. G.	173.304(a)(2) Table Note 4	Green	5 pounds	do	5 pounds
Carbon dioxide, liquefied	Nonf. G.	173.306, 173.304, 173.314, 173.315	do	300 pounds	150 pounds	300 pounds
Carbon dioxide, nitrous oxide mixture	Nonf. G.	173.306, 173.304	do	do	do	Do.
Carbon dioxide-oxygen mixture	Nonf. G.	173.306, 173.304	do	do	do	Do.
Carbon monoxide	F.G.	173.306, 173.304	Red Gas	150 pounds	Not accepted	150 pounds
*Carbon remover, liquid	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Carbonyl chloride. See Phosgene.						
Cartridge bags, empty, with black powder igniters	Expl. C.	No exemption, 173.109	Orange C	150 pounds	50 pounds	150 pounds
Cartridge cases, empty, primed	Expl. C.	No exemption, 173.107	do	do	do	Do.
Cartridges, practice ammunition	Expl. C.	No exemption, 173.101a	do	do	do	Do.
Case oil. See Gasoline or Naphtha.						
Castinghead gasoline. See Gasoline.						
Caustic potash, liquid. See Potassium hydroxide solutions.						
Caustic soda, liquid. See Sodium hydroxide solutions.						
*Cement, adhesive, n.o.s. See Cement, liquid, n.o.s.						
*Cement, leather	F.L.	173.118, 173.119	Red	12 gallons	1 quart	12 gallons
*Cement, container, linoleum, tile or wallboard, liquid.	F.L.	173.118, 173.132	do	15 gallons	do	15 gallons
*Cement, liquid, n.o.s.	F.L.	173.118, 173.132	do	do	do	Do.
*Cement, pyroxylin	F.L.	173.118, 173.132	do	do	do	Do.
*Cement, roofing, liquid	F.L.	173.118, 173.119	do	12 gallons	do	12 gallons
*Cement, rubber	F.L.	173.118, 173.132	do	15 gallons	do	15 gallons
*Charcoal, activated	F.S.	173.162	Red Striped	200 pounds	25 pounds	200 pounds
Charcoal briquettes	F.S.	173.162	do	do	50 pounds	50 pounds
Charcoal, shell	F.S.	173.162	do	do	25 pounds	200 pounds
Charcoal, wood, ground, crushed, granulated or pulverized.	F.S.	173.162	do	do	do	Do.
Charcoal, wood, lump	F.S.	173.162	do	100 pounds	50 pounds	50 pounds
Charcoal screenings, made from "pinon" wood	F.S.	173.162	do	200 pounds	25 pounds	200 pounds
Charcoal wood screenings other than "pinon" wood screenings.	F.S.	No exemption, 173.162	do	Not accepted	Not accepted	Not accepted
Charcoal screenings, wet	SCM	Forbidden				
Charcoal, wet	SCM	Forbidden				
Charged oil well jet perforating guns (total explosive contents in guns exceeding 30 lbs. per motor vehicle).	Expl. A.	No exemption, 173.53(u), 173.80	Orange A	Not accepted	Not accepted	Do.
Charged oil well jet perforating guns (total explosive contents in guns not exceeding 30 lbs. per motor vehicle).	Expl. C.	No exemption, 173.53(u), 173.110	Orange C	do	do	Do.
*Chemicals, n.o.s. See *Drugs, chemicals, medicines or cosmetics, n.o.s.						
Chemical ammunition (containing class A poisons, gases, or liquids)	Pois. A.	No exemption, 173.330	Poison gas or Poison A.	do	do	Do.
Chemical ammunition (containing class B poisons, liquids or solids)	Pois. B.	173.245, 173.350	Poison B.	55 gallons	do	55 gallons
Chemical ammunition (containing class C poisons, liquids or solids)	Irr.	No exemption, 173.263	Irritant	20 pounds	do	20 pounds
Chemical ammunition, explosive	Expl. A.	173.59	Orange A	Not accepted	do	Not accepted
*Chemical kits	Cor. L.	173.266	Corrosive liquid	5 pints	1 quart	1 quart
*Chlorate and borate mixtures	Oxy. M.	173.153, 173.229	Yellow	150 pounds	25 pounds	150 pounds
*Chlorate and magnesium chloride mixtures	Oxy. M.	173.153, 173.229	do	do	do	Do.
Chlorates, n.o.s.	Oxy. M.	173.153, 173.163	do	do	do	Do.
Chlorates, n.o.s., wet	Oxy. M.	173.153, 173.163(a)(6)	do	200 pounds	do	200 pounds
Chlorate explosives, dry. See High explosives.						
Chlorate of potash. See Potassium chlorate.						
Chlorate of soda. See Sodium chlorate.						
Chlorate powders. See High explosives.						
Chloride of phosphorus. See Phosphorus trichloride.						
Chloride of sulfur. See Sulfur chloride.						
*Chlorine	Nonf. G.	173.306, 173.304, 173.314, 173.315	Green	150 pounds	Not accepted	150 pounds
Chlorine dioxide hydrate, frozen	Oxy. M.	No exemption, 173.237	Yellow	Not accepted	do	Not accepted
Chlorine trifluoride	Cor. L.	No exemption, 173.255	Corrosive Liquid	100 pounds	do	100 pounds
Chloroacetonaphenone, gas, liquid or solid	Irr.	No exemption, 173.262	Irritant	75 pounds	do	75 pounds
Chloroacetyl chloride	Cor. L.	No exemption, 173.263	Corrosive Liquid	1 quart	do	1 quart
Chlorobenzoyl peroxide (para)	Oxy. M.	No exemption, 173.157, 173.158	Peroxide	25 pounds	do	25 pounds
Chlorodinitrobenzoyl. See Dinitrochlorobenzol, solid.						
Chloropicrin and methyl chloride mixtures	Pois. A.	No exemption, 173.329(b)	Poison Gas	Not accepted	do	Not accepted
Chloropicrin, liquid	Pois. B.	No exemption, 173.357	Poison B.	24 pounds	do	Do.
Chloropicrin, absorbed	Pois. B.	No exemption, 173.357	do	75 pounds	do	Do.
Chloropicrin mixtures (containing no compressed gas or poisonous liquid, class A)	Pois. B.	No exemption, 173.357	do	do	do	Do.
Chloropicrin and nonflammable, nonliquefied compressed gas mixtures	Pois. A.	No exemption, 173.329(c)	Poison Gas	Not accepted	do	Do.
Chlorosulfonic acid	Cor. L.	173.244, 173.254	Corrosive Liquid	1 quart	1 quart	1 quart
Chlorosulfonic acid-sulfur trioxide mixtures	Cor. L.	173.244, 173.254	do	do	do	Do.
4-Chloro-o-toluidine hydrochloride	Pois. B.	No exemption, 173.362	Poison B.	do	do	Do.
Chromic acid mixtures, dry	Oxy. M.	173.153, 173.164	Yellow	100 pounds	25 pounds	100 pounds
Chromic acid, solid	Oxy. M.	173.153, 173.164	do	do	do	Do.
Chromic acid, solution	Cor. L.	173.244, 173.245, 173.257	Corrosive Liquid	1 gallon	1 quart	1 gallon
Chromic anhydride. See Chromic acid, solid.						
Chromium trioxide. See Chromic acid, solid.						
Chromyl chloride	Cor. L.	No exemption, 173.247	do	do	Not accepted	Do.
Cigar and cigarette lighter fluid. See Lighter fluid.						
Cigarette lighters charged with fuel	F.S.	173.21(d)	Red Striped	Not accepted	do	Not accepted
Cigarette loads	Expl. C.	No exemption, 173.111	Orange C	150 pounds	25 pounds	150 pounds
*Cleaning fluid or liquid	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Cloud gas cylinders. See Chemical ammunition.						
Coal briquettes, hot	SCM	Forbidden				
Coal gas. See Hydrocarbon gas, nonliquefied.						
Coal, ground bituminous, sea coal, coal facings, etc.	F.S.	173.165	Red Striped	Not accepted	Not accepted	Not accepted

COMBOSITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Coal tar distillate	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
*Coal tar light oil	F.L.	173.118, 173.119	do.	do.	do.	Do.
*Coal tar naphtha	F.L.	173.118, 173.119	do.	do.	do.	Do.
*Coal tar oil	F.L.	173.118, 173.119	do.	do.	do.	Do.
*Coating solution	F.L.	173.118, 173.133	do.	do.	do.	Do.
Cobalt resinates, precipitated	SCM	No exemption, 173.166	Red Bottom	15 gallons	do.	15 gallons.
Cocculus, solid (Ash berry)	Pois. B	173.304, 173.305	Poison B	125 pounds	Not accepted	Not accepted.
Coke, hot	SCM	Forbidden		200 pounds	50 pounds	200 pounds.
Collodion	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Collodion cotton, wet. See Nitrocellulose, wet.						
Cologne spirits (alcohol)	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Columbian spirits (wood alcohol)	F.L.	173.118, 173.119	do.	do.	do.	Do.
Combination fuses	Expl. C	No exemption, 173.105	Orange C	150 pounds	50 pounds	150 pounds.
Combination primers	Expl. C	No exemption, 173.107	do.	do.	do.	Do.
Commercial shaped charges. See High explosives.		See 173.65(h)				
Common fireworks. See Fireworks, common.						
*Compounds, cleaning, liquid	Cor. L	173.244, 173.245	Corrosive Liquid	1 quart	1 quart	1 quart.
*Compounds, cleaning, liquid	F.L.	173.118, 173.119	R ₂	10 gallons	do.	10 gallons.
*Compounds, cleaning liquid (containing hydrochloric (muriatic) acid)	Cor. L	173.244, 173.245	Corrosive Liquid	10 pints	do.	1 gallon.
*Compounds, cleaning, liquid (containing hydrofluoric acid)	Cor. L	173.244, 173.245	do.	do.	do.	Do.
*Compounds, enamel	F.L.	173.118, 173.128	Red	55 gallons	do.	55 gallons.
*Compounds, iron or steel rust preventing or removing	Cor. L	173.244, 173.245	Corrosive liquid	1 gallon	do.	1 gallon.
*Compounds, lacquer, paint or varnish, etc., removing, reducing or thinning, liquid	F.L.	173.118, 173.128	Red	55 gallons	do.	55 gallons.
*Compounds, lacquer, paint or varnish removing liquid	Cor. L	173.244, 173.245	Corrosive liquid	1 gallon	do.	1 gallon.
*Compounds, polishing, liquid	F.L.	173.118, 173.128	Red	55 gallons	do.	55 gallons.
*Compounds, tree or weed killing, liquid	F.L.	173.118, 173.119	do.	10 gallons	do.	10 gallons.
*Compounds, tree or weed killing, liquid	Pois. B	173.304, 173.305	Poison B	55 gallons	do.	55 gallons.
*Compounds, tree or weed killing, solid	Oxy. M	173.153, 173.154, 173.220	Yellow	100 pounds	25 pounds	100 pounds.
*Compounds, type-cleaning, liquid	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
*Compounds, vulcanizing, liquid	Cor. L	173.244, 173.245	Corrosive liquid	1 quart	do.	1 quart.
*Compounds, vulcanizing, liquid	F.L.	173.118, 173.119	Red	10 gallons	do.	10 gallons.
Compressed gases, flammable, n.o.s.	F.G.	173.306, 173.307, 173.304, 173.302	Red Gas	300 pounds	Not accepted	300 pounds.
Compressed gases, nonflammable, n.o.s.	Nonf. G	173.306, 173.307, 173.304, 173.302	Green	do.	150 pounds	Do.
Containers, reused or empty		See 173.28 or 173.29				
Copper acetoarsenite, solid (emerald green, imperial green, Kings green, moss green, meadow green, milk green, parrot green, Vienna green)	Pois. B	173.304, 173.305	Poison B	200 pounds	50 pounds	200 pounds.
Copper arsenite, solid (Scheele's green, cupric green, copper orthoarsenite, Swedish green)	Pois. B	173.304, 173.305	do.	do.	do.	Do.
Copper cyanide	Pois. B	173.370	do.	No limit	25 pounds	No limit.
Cordensu detonant fuse	Expl. C	No exemption, 173.104	Orange C	300 pounds	50 pounds	300 pounds.
Corrosive battery fluid. See Electrolyte (acid), or Alkaline corrosive battery fluid.						
Corrosive liquid, n.o.s.	Cor. L	173.244, 173.245	Corrosive Liquid	5 pints	1 quart	1 quart.
Cotton, burnt. See Burnt cotton						
Cotton, waste, oily with more than 5% of animal or vegetable oil	F.S.	No exemption, 173.167	Red Striped	Not accepted	Not accepted	Not accepted.
Crotonaldehyde	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
*Crude nitrogen fertilizer solution	Nonf. G	173.306, 173.304, 173.314	Green	300 pounds	150 pounds	300 pounds.
*Crude oil, petroleum	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Cumene hydroperoxide (not exceeding 80% in monosoluble solvent)	Oxy. M	173.153(b), 173.224	Peroxide	1 quart	do.	1 quart.
Cupric cyanide. See Copper cyanide						
Cupriethylene-diamine solution	Cor. L	173.244, 173.245	Corrosive Liquid	1 gallon	do.	Do.
Cyanides or cyanide mixtures, dry	Pois. B	173.304, 173.370	Poison B	200 pounds	25 pounds	200 pounds.
Cyanogen bromide	Pois. B	No exemption, 173.370	do.	25 pounds	Not accepted	25 pounds.
Cyanogen chloride containing less than 0.5% water	Pois. A	No exemption, 173.328	Poison Gas	Not accepted	do.	Not accepted.
Cyanogen gas	Pois. A	No exemption, 173.328	do.	do.	do.	Do.
Cyclohexane	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Cyclohexanone peroxide, over 50% concentration but not exceeding 85% concentration	Oxy. M	No exemption, 173.157, 173.158	Peroxide	25 pounds	Not accepted	25 pounds.
Cyclohexanone peroxide, not over 50% concentration	Oxy. M	173.153, 173.154	do.	do.	2 pounds	Do.
Cyclohexenyl trichlorosilane	Cor. L	No exemption, 173.280	Corrosive Liquid	10 gallons	Not accepted	10 gallons.
Cyclohexyl trichlorosilane	Cor. L	No exemption, 173.280	do.	do.	do.	Do.
Cyclopentane	F.L.	173.118, 173.119	Red	do.	1 quart	Do.
Cyclopentane, methyl	F.L.	173.118, 173.119	do.	do.	do.	Do.
Cyclopropane	F.G.	173.306, 173.304	Red Gas	300 pounds	Not accepted	300 pounds.
Cyclotrimethylenetrinitramine, desensitized. See High explosives.						
Cyclotrimethylenetrinitramine, wet with not less than 10% of water. See High explosives.						
Decaborane	F.S. and WRM	No exemption, 173.296	Red Striped and Blue	25 pounds	do.	25 pounds.
Delay electric igniters	Expl. C	No exemption, 173.106	Orange C	150 pounds	50 pounds	150 pounds.
Denatured alcohol. See Alcohol, n.o.s.						
Depth bombs. See Explosive bomb						
Detonating fuses, class A explosives, with or without radioactive components	Expl. A	No exemption, 173.69	Orange A	Not accepted	Not accepted	Not accepted.
Detonating fuses, class C explosives	Expl. C	No exemption, 173.112	Orange C	150 pounds	50 pounds	150 pounds.
Detonating primers	Expl. A	No exemption, 173.68	Orange A	Not accepted	Not accepted	Not accepted.
Diiodinitrophenol. See Initiating explosive						
Dichlorodifluoromethane	Nonf. G	173.306, 173.304, 173.314, 173.315	Green	300 pounds	150 pounds	300 pounds.
*Dichlorodifluoromethane-dichlorotetrafluoroethane mixture	Nonf. G	173.306, 173.304, 173.314, 173.315	do.	do.	do.	Do.
*Dichlorodifluoromethane-monochlorodifluoromethane mixture	Nonf. G	173.306, 173.304, 173.314	do.	do.	do.	Do.
*Dichlorodifluoromethane-trichloromonofluoromethane-monochlorodifluoromethane mixture	Nonf. G	173.306, 173.304, 173.314	do.	do.	do.	Do.
*Dichlorodifluoromethane-trichlorotrifluoromethane mixture	Nonf. G	173.306, 173.304, 173.314	do.	do.	do.	Do.
*Dichlorodifluoromethane-mono-fluorotrichloromethane mixture	Nonf. G	173.306, 173.314, 173.315	do.	do.	do.	Do.
Dichlorodifluoromethane and difluoroethane mixture (constant boiling mixture)	Nonf. G	173.306, 173.304, 173.314, 173.315	do.	do.	do.	Do.

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Dichloroethylene.....	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Dichloroisocyanuric acid, dry (containing more than 30% available chlorine).....	Oxy. M.	173.153, 173.217	Yellow	100 pounds	50 pounds	100 pounds
Dicumyl peroxide, solid.....	Oxy. M.	173.153, 173.154	Peroxide	25 pounds	2 pounds	25 pounds
Dicumyl peroxide, not exceeding 50% solution.....	Oxy. M.	173.153(b), 173.224	do	1 quart	1 quart	1 quart
Diethylamine.....	F.L.	173.118, 173.119	Red	do	do	Do
Diethyl dichlorosilane.....	Cor. L.	No exemption, 173.280	Corrosive Liquid	10 gallons	Not accepted	10 gallons
Diethylene glycol dinitrate.....	Expl. A.	173.51(d)	Orange A	Not accepted	do	Not accepted
Diffuoroethane.....	F.G.	173.306, 173.304, 173.314, 173.315	Red Gas	300 pounds	do	300 pounds
Diffuoromonochloroethane.....	F.G.	173.306, 173.304, 173.314	do	do	do	Do
Diffuorophosphoric acid, anhydrous.....	Cor. L.	No exemption, 173.275	Corrosive Liquid	1 gallon	do	1 gallon
*Di iso octyl acid phosphate.....	Cor. L.	173.244, 173.296	do	1 quart	1 quart	1 quart
Diisopropylbenzene hydroperoxide, not exceeding 60% solution.....	Oxy. M.	173.153(b), 173.224	Peroxide	do	do	Do
Dimethylamine, anhydrous.....	F.G.	173.306, 173.304, 173.314, 173.315	Red Gas	300 pounds	Not accepted	300 pounds
Dimethylamine, aqueous solution.....	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Dimethyldichlorosilane.....	F.L.	No exemption, 173.135	do	do	Not accepted	Do
Dimethylhexane dihydroperoxide, dry.....	Oxy. M.	Forbidden				
Dimethylhexane dihydroperoxide, wet.....	Oxy. M.	No exemption, 173.157	Peroxide	25 pounds	Not accepted	25 pounds
Dimethylhydrazine, unsymmetrical (UDMH).....	F.L.	No exemption, 173.145	Red	5 pints	do	5 pints
Dimethyl ether.....	F.G.	173.306, 173.304, 173.314	Red Gas	300 pounds	do	300 pounds
Dimethyl sulfate.....	Cor. L.	No exemption, 173.255	Corrosive Liquid	1 quart	do	1 quart
Dimethyl sulfide.....	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Dinitrobenzene, solid (dinitrobenzol).....	Pois. B.	173.345, 173.371	Poison B	200 pounds	50 pounds	200 pounds
Dinitrobenzene, solution.....	Pois. B.	173.345, 173.346	do	55 gallons	1 quart	55 gallons
Dinitrochlorobenzene, solid (dinitrochlorobenzol, chloro dinitrobenzol).....	Pois. B.	173.364, 173.365	do	200 pounds	50 pounds	200 pounds
Dinitrophenol solutions.....	Pois. B.	173.345, 173.362a	do	65 pounds	1 quart	65 pounds
Diphenyl dichlorosilane.....	Cor. L.	No exemption, 173.280	Corrosive Liquid	10 gallons	Not accepted	10 gallons
Diphenylaminechloroarsine.....	Irr.	No exemption, 173.382	Irritant	75 pounds	do	75 pounds
Diphenylchloroarsine, solid.....	Irr.	No exemption, 173.382	do	20 pounds	do	20 pounds
Diphogens. See Phogens.						
Dispersant gas.....		See 173.314(c) Table Note 13, 173.315(a) Table Note 9.				
*Distillate.....	F. L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Dodecyltrichlorosilane.....	Cor. L.	No exemption, 173.280	Corrosive Liquid	do	Not accepted	Do
*Dressing, leather.....	F. L.	173.118, 173.119	Red	do	1 quart	Do
*Driers. See *Paint driers, liquid.						
Drill cartridges.....		See 173.55				
*Drugs, chemicals, medicines or cosmetics, n.o.s.....	F. L.	173.118, 173.119				
*Drugs, chemicals, medicines or cosmetics, n.o.s.....	F. S.	173.153, 173.154	Red Stripped	100 pounds	25 pounds	100 pounds
*Drugs, chemicals, medicines or cosmetics, n.o.s.....	Oxy. M.	173.153, 173.154	Yellow	do	do	Do
*Drugs, chemicals, medicines or cosmetics, n.o.s.....	Cor. L.	173.244, 173.245	Corrosive Liquid	1 quart	1 quart	1 quart
*Drugs, chemicals, medicines or cosmetics, n.o.s.....	SCM.	173.118, 173.119, 173.153, 173.154	Red Bottom	1 quart or 5 pounds	Not accepted	Not accepted
*Drugs, chemicals, medicines or cosmetics, n.o.s.....	WRM.	173.118, 173.119, 173.153, 173.154	Blue	100 pounds	25 pounds	100 pounds
*Drugs, chemicals, medicines or cosmetics, n.o.s.....	Oxy. M.	173.153, 173.154	Peroxide	10 pounds	Not accepted	Not accepted
*Drugs, chemicals, medicines or cosmetics, n.o.s., liquid.....	Pois. B.	173.345, 173.346	Poison B	10 gallons	1 quart	55 gallons
*Drugs, chemicals, medicines or cosmetics, n.o.s., solid.....	Pois. B.	173.364, 173.365	do	100 pounds	50 pounds	200 pounds
Dusts, byproduct, poisonous. See Arsenical dust.						
Dynamite. See High explosives.						
Electric blasting caps. See Blasting caps, electric.						
Electric squibs.....	Expl. C.	No exemption, 173.106	Orange C	150 pounds	do	150 pounds
Electric storage batteries, wet. See Batteries, electric storage, wet.						
Electrolyte (acid), battery fluid.....	Cor. L.	173.244, 173.257	Corrosive liquid	5 gallons	1 quart	5 gallons
Electrolyte (acid), or alkaline corrosive battery fluid packed with storage batteries.....	Cor. L.	No exemption, 173.258	do	5 gallons	Not accepted	5 pints
Electrolyte (acid), or alkaline corrosive battery fluid packed with battery charger, radio current supply device, or electronic equipment and actuating devices.....	Cor. L.	No exemption, 173.259	do	6 quarts	do	6 quarts
Empty cartridge bags with black powder igniters.....	Expl. C.	No exemption, 173.106	Orange C	150 pounds	50 pounds	150 pounds
Empty cartridge cases, primed.....	Expl. C.	No exemption, 173.107	do	do	do	Do
*Enamel. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.						
Engine starting fluid.....	F.G.	No exemption, 173.304	Red Gas	60 pounds	Not accepted	60 pounds
Engines, internal combustion.....		See 173.20				
*Eradicators, paint or grease, liquid.....	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Etching acid liquid, n.o.s.....	Cor. L.	No exemption, 173.299	Corrosive Liquid	10 pounds	Not accepted	10 pounds
Ethane.....	F.G.	173.306, 173.304	Red Gas	300 pounds	do	300 pounds
Ether.....	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Ethyl acetate.....	F.L.	173.118, 173.119	do	do	do	Do
Ethyl alcohol. See Alcohol, n.o.s.						
Ethyl aldehyde. See Acetaldehyde.						
Ethyl chloride.....	F.L.	No exemption, 173.123	do	300 pounds in cylinders 15 pounds in other containers	Not accepted	300 pounds
Ethyl chloroformate (chlorocarbonate).....	Cor. L.	No exemption, 173.288	Corrosive Liquid	5 pints	do	5 pints
Ethyl dichloroarsine.....	Pois. A.	No exemption, 173.328	Poison A	Not accepted	do	Not accepted
Ethyl dichlorosilane.....	F.L.	No exemption, 173.134	Red	10 gallons	do	10 gallons
*Ethylenes.....	F.G.	173.306, 173.304	Red Gas	300 pounds	do	300 pounds
Ethylene dichloride.....	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Ethylene imine, inhibited.....	F.L.	No exemption, 173.130	do	5 pints	Not accepted	5 pints

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued—

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
Ethylene oxide	F.L.	No exemption, 173.124	do	300 pounds in cylinders, 15 pounds in other containers.	do	300 pounds.
Ethyl ether. See Ether.						
Ethyl formate	F.L.	173.118, 173.119	do	do	1 quart	10 gallons.
Ethyl mercaptan	F.L.	No exemption, 173.141	do	do	Not accepted	Do.
Ethyl methyl ether	F.L.	173.118, 173.119	do	do	1 quart	Do.
Ethyl methyl ketone	F.L.	173.118, 173.119	do	do	do	Do.
Ethyl nitrate (nitric ether)	F.L.	173.118, 173.119	do	do	do	Do.
Ethyl nitrite (nitrous ether)	F.L.	173.118, 173.119	do	do	do	Do.
Ethyl phenyl dichlorosilane	Cor. L.	No exemption, 173.280	Corrosive Liquid	do	Not accepted	Do.
Ethyl trichlorosilane	F.L.	No exemption, 173.135	Red	do	do	Do.
Etiologic agents, n.o.s.	Etiol.	No exemption, 173.388	Etiologic	1 gallon	do	Do.
Explosive auto alarms	Expl. C	No exemption, 173.111	Orange C	150 pounds	50 pounds	150 pounds.
Explosive bomb	Expl. A	No exemption, 173.56	Orange A	Not accepted	Not accepted	Not accepted.
Explosive cable cutters	Expl. C	No exemption, 173.102	Orange C	150 pounds	50 pounds	150 pounds.
Explosives, class A	Expl. A	See 173.53	Orange A			
Explosives, class B	Expl. B	See 173.88	Orange B			
Explosives, class C	Expl. C	See 173.100	Orange C			
Explosive mine	Expl. A	No exemption, 173.56	Orange A	Not accepted	Not accepted	Not accepted.
Explosive power device, class B	Expl. B	No exemption, 173.94	Orange B	150 pounds	do	150 pounds.
Explosive power device, class C	Expl. C	No exemption, 173.102	Orange C	do	50 pounds	Do.
Explosive projectile	Expl. A	No exemption, 173.56	Orange A	Not accepted	Not accepted	Not accepted.
Explosive release device	Expl. C	No exemption, 173.102	Orange C	150 pounds	50 pounds	150 pounds.
Explosive rivets	Expl. C	No exemption, 173.100(q)	do	do	do	Do.
Explosives, samples for laboratory examination		See 173.86				
Explosive torpedo	Expl. A	No exemption, 173.56	Orange A	Not accepted	Not accepted	Not accepted.
Extracts, liquid, flavoring	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Fabrics with animal or vegetable oil. See Fibers of fabrics with animal or vegetable oil.						
Felt waste, wet. See Waste wool, wet.						
Ferric arsenate, solid	Pois. B	173.364, 173.365	Poison B	200 pounds	50 pounds	200 pounds.
Ferric arsenite, solid	Pois. B	173.364, 173.365	do	do	do	Do.
Ferrous arsenate (iron arsenate), solid	Pois. B	173.364, 173.365	do	do	do	Do.
*Fertilizer ammoniating solution containing free ammonia.	Nonf. G	173.305, 173.304, 173.314	Green	300 pounds	Not accepted	300 pounds.
Fertilizer, tankage. See Garbage, tankage.						
Fiber, burnt	F.S.	No exemption, 173.169	Red Striped	Not accepted	do	Not accepted.
Fibers or fabrics, with animal or vegetable oil	F.S.	No exemption, 173.170	do	do	do	Do.
*Film (nitrocellulose)	F.S.	No exemption, 173.177, 173.178, 173.180.	do	200 pounds	50 pounds	200 pounds.
*Film (slow-burning)	F.S.	173.181(a)(1)	do	No limit	No limit	No limit.
Film scrap (nitrocellulose), samples	F.S.	No exemption, 173.196	do	25 pounds		
Film scrap (nitrocellulose), other than samples	F.S.	No exemption, 173.196	do	Not accepted	Not accepted	Not accepted.
Film scrap (slow-burning)	F.S.	173.181(a)(2)	do	No limit	No limit	No limit.
*Film, toy (nitrocellulose)	F.S.	No exemption, 173.179	do	200 pounds	50 pounds	200 pounds.
*Film, toy (slow-burning)	F.S.	173.181(a)(1)	do	No limit	No limit	No limit.
*Film, toy pieces (nitrocellulose)	F.S.	173.181(a)(3)	do	Not accepted	Not accepted	Not accepted.
Firecrackers. See Fireworks, common or special.						
Firecracker salutes. See Common fireworks or Special fireworks.						
Fire extinguisher charges	Cor. L.	173.261	Corrosive Liquid	1 gallon	1 quart	1 gallon.
Fire extinguisher charges containing not more than 50 grains of propellant explosives per unit.	Expl. B	173.88(f), Note 1	None	No limit	No limit	No limit.
Fire extinguishers	Nonf. G	173.306	Green	300 pounds	150 pounds	300 pounds.
Fireworks, common	Expl. C	No exemption, 173.100(r), 173.108.	Orange C	200 pounds	50 pounds	200 pounds.
Fireworks, exhibition display pieces. See Fireworks, special.						
Fireworks, special	Expl. B	No exemption, 173.88(d), 173.91.	Orange B	do	Not accepted	Do.
Fish meal or fish scrap containing less than 6% or more than 18% moisture.	BCM	No exemption, 173.171	Red Bottom	Not accepted	do	Not accepted.
Flammable radioactive materials	RAM	173.303, 173.304	Radioactive	No limit	No limit	No limit.
*Flame retardant compound, liquid	Cor. L.	173.244, 173.261	Corrosive Liquid	10 gallons	1 quart	10 gallons.
Flammable liquids, n.o.s.	F.L.	173.118, 173.119	Red	do	do	Do.
Flammable solids, n.o.s.	F.S.	173.153, 173.154	Red Striped	25 pounds	25 pounds	25 pounds.
Flares. See Fireworks, common						
Flares, aéroplans. See Fireworks, special						
Flash cartridges. See Fireworks, special or low explosives.						
Flash crackers. See Fireworks, common or special.						
Flash powder. See Fireworks, special or low explosives.						
Flash sheets. See Fireworks, special or low explosives.						
Flexible linear shaped charges, metal clad	Expl. C	No exemption, 173.104	Orange C	300 pounds		
Flux dust, poisonous	Pois. B	173.364, 173.365	Poison B	200 pounds	50 pounds	200 pounds.
Fluorine	F.G.	173.305, 173.302	Red Gas	5 pounds	Not accepted	Not accepted.
Fluosulfonic acid	Cor. L.	No exemption, 173.274	Corrosive Liquid	10 pints	do	10 pints.
Formic acid	Cor. L.	173.244, 173.245, 173.269	do	5 gallons	1 quart	5 gallons.
Formic acid, solution	Cor. L.	173.244, 173.245, 173.269	do	do	do	Do.
Fulminate of mercury, dry	Expl. A	Forbidden				
Fulminate of mercury, wet. See Initiating explosive.						
*Fusiforms		See 173.152(a), Note 1				
Fuse igniters	Expl. C	No exemption, 173.106	Orange C	150 pounds	50 pounds	150 pounds.
Fuse, instantaneous	Expl. C	173.100(m)	do	do	25 pounds	Do.
Fuse lighters	Expl. C	No exemption, 173.108	do	do	50 pounds	Do.
Fuse, mild detonating, metal clad	Expl. C	No exemption, 173.104	do	300 pounds	do	300 pounds.
Fuse, safety	Expl. C	173.100(o)	do	25 pounds	25 pounds	25 pounds.
Fuses	Expl. C	No exemption, 173.108	do	150 pounds	50 pounds	150 pounds.
Fuses, combination	Expl. C	No exemption, 173.105	do	do	do	Do.
Fuses, detonating, class A explosives	Expl. A	No exemption, 173.69	Orange A	Not accepted	Not accepted	Not accepted.
Fuses, detonating, class A explosives, radioactive	Expl. A	No exemption, 173.69	do	do	do	Do.
Fuses, detonating, class C explosives	Expl. C	No exemption, 173.113	Orange C	150 pounds	50 pounds	150 pounds.
Fuses, percussion, nondetonating	Expl. C	No exemption, 173.108	do	do	do	Do.
Fuses, time, nondetonating	Expl. C	No exemption, 173.108	do	do	do	Do.
Fuses, tracer, nondetonating	Expl. C	No exemption, 173.108	do	do	do	Do.

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
Garbage tanks containing less than 5% of moisture.	SOM	No exemption, 173.209	Red Bottom	Not accepted	Not accepted	Not accepted
Gas cylinders, empty		See 173.29				
*Gas drips, hydrocarbon	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Gas identification sets	Pols. A or Irr.	No exemption, 173.331	Poison A or Irritant	See 173.331		
Gas mine. See Explosive mine.						
Gasoline (including casing head and natural).						
Gelatin dynamite. See High explosives.						
Grenades, empty, primed	Expl. C	No exemption, 173.107	Orange C	150 pounds	50 pounds	150 pounds
Grenades, hand or rifle, explosive (with or without gas, smoke or incendiary material).	Expl. A	No exemption, 173.56	Orange A	Not accepted	Not accepted	Not accepted
Grenades, without bursting charges:						
With incendiary material	Expl. B	See 173.91	Orange B	50 pounds	do	50 pounds
With smoke charges	Expl. C	See 173.108	Orange C	200 pounds	do	200 pounds
With poison gas charges	Pols. A	See 173.330	Poison Gas	Not accepted	do	Not accepted
With toxic gas charges	Pols. B	See 173.350	Poison B	20 pounds	do	20 pounds
Grenades, police	Pols. A	No exemption, 173.335	Poison Gas	Not accepted	do	Not accepted
Grenades, tear gas	Irr.	No exemption, 173.335	Irritant	75 pounds	do	75 pounds
Guanidine nitrate	Ory. M	173.153, 173.152	Yellow	100 pounds	25 pounds	100 pounds
Guanyl nitroamino guanylidene hydrazine. See Initiating explosive.						
Guanyl nitroamino guanyl tetrazene. See Initiating explosive.						
Guided missiles, with warheads. See Rocket ammunition with explosive, illuminating, gas, incendiary, or smoke projectile.						
Guided missiles, without warheads. See Rocket motors, class A explosives or rocket motors, class B explosives.						
Gun cotton. See High explosives.						
Hafnium metal, dry, mechanically produced, finer than 570 mesh particle size.	F.S.	No exemption, 173.214	Red Striped	75 pounds	Not accepted	75 pounds
Hafnium metal, dry, chemically produced, finer than 50 mesh particle size.	SOM	No exemption, 173.214	Red Bottom	do	do	Do.
Hafnium metal, wet, mechanically produced, finer than 570 mesh particle size.	F.S.	No exemption, 173.214	Red Striped	150 pounds	do	150 pounds
Hafnium metal, wet, chemically produced, finer than 50 mesh particle size.	F.S.	No exemption, 173.214	do	do	do	Do.
Hair, wet	SOM	No exemption, 173.172	Red Bottom	Not accepted	do	Not accepted
Hand signal devices	Expl. C	No exemption, 173.108	Orange C	200 pounds	50 pounds	200 pounds
Heaters for refrigerator cars, liquid fuel type	F.L.	173.145	Red	No limit	No limit	No limit
Helium	Nonf. G	173.305, 173.302, 173.314	Green	300 pounds	150 pounds	300 pounds
Helium-oxygen mixture	Nonf. G	173.305, 173.302	do	do	do	Do.
Heptane	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Hexadecyltrichlorosilane	Cor. L	No exemption, 173.289	Corrosive Liquid	do	Not accepted	Do.
Hexamethyl tetraphosphate and compressed gas mixture	Pols. A	No exemption, 173.334	Poison Gas	No accepted	do	Not accepted
Hexamethyl tetraphosphate, liquid	Pols. B	No exemption, 173.333	Poison B	1 quart	do	1 quart
Hexamethyl tetraphosphate mixture, dry	Pols. B	173.377	do	200 pounds	50 pounds	200 pounds
Hexamethyl tetraphosphate mixture, liquid	Pols. B	173.359	do	1 quart	Not accepted	1 quart
Hexafluorophosphoric acid	Cor. L	No exemption, 173.275	Corrosive Liquid	1 gallon	do	1 gallon
Hexafluoropropylene	Nonf. G	173.305, 173.304, 173.314, 173.315	Green	300 pounds	150 pounds	300 pounds
Hexamethylene diamine solution	Cor. L	173.244, 173.249, 173.262	Corrosive Liquid	10 gallons	1 quart	10 gallons
Hexane	F.L.	173.118, 173.119	Red	do	do	Do.
Hexyl trichlorosilane	Cor. L	No exemption, 173.289	Corrosive Liquid	do	Not accepted	Do.
High explosives	Expl. A	No exemption, 173.61 to 173.67 inclusive	Orange A	See 173.65	do	Not accepted
High explosives, liquid	Expl. A	No exemption, 173.62	do	Not accepted	do	Do.
High wines. See Alcohol, n.o.s.						
Hydraulic accumulators. See Accumulator, pressurized.						
Hydrazine, anhydrous	Cor. L	No exemption, 173.275	Corrosive Liquid	5 pints	do	5 pints
Hydrazine solution containing 50% or less of water	Cor. L	No exemption, 173.275	do	do	do	Do.
Hydroiodic acid	Cor. L	173.244, 173.245	do	1 gallon	1 quart	1 gallon
Hydrobromic acid, solution	Cor. L	173.244, 173.245	do	do	do	Do.
Hydrobromic acid, anhydrous. See Hydrogen bromide.						
Hydrocarbon gas, liquefied	F.G.	173.305, 173.304, 173.314	Red Gas	300 pounds	Not accepted	300 pounds
Hydrocarbon gas, nonliquefied	F.G.	173.305, 173.304	do	do	do	Do.
Hydrochloric (muriatic) acid	Cor. L	173.244, 173.245	Corrosive Liquid	10 pints	1 quart	10 pints
Hydrochloric acid, anhydrous. See Hydrogen chloride.						
Hydrochloric acid mixtures	Cor. L	173.244, 173.245	do	do	do	Do.
Hydrochloric acid solution, inhibited	Cor. L	173.244, 173.245	do	do	do	Do.
Hydrocyanic acid, liquefied	Pols. A and F.L.	No exemption, 173.332	Poison A and Red	Not accepted	Not accepted	Not accepted
Hydrocyanic acid (prussic), liquid	Pols. A and F.L.	No exemption, 173.332	do	do	do	Do.
Hydrocyanic acid (prussic), unstabilized	Pols. A	Forbidden				
Hydrocyanic acid solution not more than 5%	Pols. B	No exemption, 173.331	Poison B	25 pounds	Not accepted	25 pounds
Hydrofluoric acid solution	Cor. L	173.244, 173.244(a)	Corrosive Liquid	10 pints	1 quart	10 pints
Hydrofluoric acid, anhydrous. See Hydrogen fluoride.						
Hydrofluoric and sulfuric acids, mixtures	Cor. L	No exemption, 173.282	do	do	Not accepted	Do.
Hydrofluosulfuric acid	Cor. L	173.244, 173.245	do	do	1 quart	Do.
Hydrogen	F.G.	173.305, 173.302, 173.314	Red Gas	300 pounds	Not accepted	300 pounds
Hydrogen bromide	Nonf. G	173.305, 173.304	Green	do	do	Do.
Hydrogen chloride	Nonf. G	173.305, 173.304	do	do	do	Do.
Hydrogen fluoride	Cor. L	No exemption, 173.244(b)	Corrosive Liquid	110 pounds	do	110 pounds
Hydrogen, liquefied	F.G.	No exemption, 173.315	Red Gas	Not accepted	do	Not accepted
Hydrogen peroxide (hydrogen dioxide) solution in water containing over 5% hydrogen peroxide by weight	Cor. L	173.244, 173.245	Corrosive Liquid	1 gallon	1 quart	1 gallon
Hydrogen sulfide	F.G.	173.305, 173.304, 173.314	Red Gas	300 pounds	Not accepted	300 pounds
Hydrochloric solutions containing more than 7% available chlorine by weight	Cor. L	173.277	Corrosive Liquid	4 gallons	1 quart	4 gallons
Igniter cord	Expl. C	No exemption, 173.100(a)	Orange C	150 pounds	50 pounds	150 pounds
Igniter fuse-metal clad	Expl. C	No exemption, 173.100	do	do	do	Do.
Igniters	Expl. C	No exemption, 173.100	do	do	do	Do.

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Igniters, jet thrust (<i>foto</i>), class A explosives	Expl. A	No exemption, 173.79	Orange A	Not accepted	Not accepted	Not accepted.
Igniters, jet thrust (<i>foto</i>) class B explosives	Expl. B	No exemption, 173.92	Orange B	550 pounds	do	550 pounds.
Igniters, rocket motor, class A explosives	Expl. A	No exemption, 173.79	Orange A	do	do	Not accepted.
Igniters, rocket motor, class B explosives	Expl. B	No exemption, 173.92	Orange B	do	do	550 pounds.
<i>Illuminating projectiles. See</i> Fireworks, special.						
Initiating explosive	Expl. A	No exemption, 173.70 to 173.78 inclusive.	Orange A	Not accepted	do	Not accepted.
<i>Diazodinitrophenol</i>		No exemption, 173.70				
<i>Fulminate of mercury</i>		No exemption, 173.71				
<i>Guanyl nitrosamino guanylidene hydrazine</i>		No exemption, 173.72				
<i>Lead azide, dextrinated type only</i>		No exemption, 173.73				
<i>Lead mononitrosorcinates</i>		No exemption, 173.70				
<i>Lead styphate (lead trinitrosorcinates)</i>		No exemption, 173.74				
<i>Nitro mannilite</i>		No exemption, 173.75				
<i>Nitroguanidine</i>		No exemption, 173.76				
<i>Pentaerythrite tetranitrate</i>		No exemption, 173.77				
<i>Tetrazene (guanyl nitrosamino guanyl tetrazene)</i>		No exemption, 173.78				
*Ink	F.L.	173.118, 173.144	Red	10 gallons	1 quart	10 gallons.
*Insecticide, dry, n.o.s.	Pois. B	173.364, 173.365	Poison B	200 pounds	50 pounds	200 pounds.
*Insecticide, liq. uid, n.o.s.	Pois. B	173.345, 173.346	do	55 gallons	1 quart	55 gallons.
Insecticide, liquefied gas, containing no poison (class A or B) material.	Nonf. G	173.306, 173.304	Green	300 pounds	150 pounds	300 pounds.
Insecticide, liquefied gas, containing poison (class A or B) material.	Pois. A	173.329, 173.334	Poison Gas	Not accepted	Not accepted	Not accepted.
*Insecticide, liquid (vermin exterminator)	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Iodine monochloride	Cor. L	No exemption, 173.293	Corrosive Liquid	1 quart	Not accepted	1 quart.
Iron mass or sponge, spent	SCM	No exemption, 173.174	Red Bottom	Not accepted	do	Not accepted.
Iron mass or sponge, not properly oxidized	SCM	No exemption, 173.174	do	do	do	Do.
Irritating agents, n.o.s.	Irr.	No exemption, 173.382	Irritant	75 pounds		
<i>Isobutane. See Liquefied petroleum gas.</i>						
<i>Isobutylene. See Liquefied petroleum gas.</i>						
Isocetane	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Isocetene	F.L.	173.118, 173.119	do	do	do	Do.
Isopentane	F.L.	173.118, 173.119	do	do	do	Do.
Isoprene	F.L.	173.118, 173.119	do	do	do	Do.
*Isopropanol	F.L.	173.118, 173.119	do	do	do	Do.
Isopropyl acetate	F.L.	173.118, 173.119	do	do	do	Do.
Isopropyl mercaptan	F.L.	No exemption, 173.141	do	do	No accepted	Do.
Isopropyl percarbonate, stabilized	Cor. L	No exemption, 173.282	Corrosive Liquid	Not accepted	do	Not accepted.
Isopropyl percarbonate, unstabilized	F.S.	No exemption, 173.218	Red Striped	do	do	Do.
<i>Jet thrust igniters. See Igniters, jet thrust.</i>						
Jet thrust unit (<i>foto</i>) class A explosives	Expl. A	No exemption, 173.79	Orange A	do	do	Do.
Jet thrust unit (<i>foto</i>) class B explosives	Expl. B	No exemption, 173.92	Orange B	550 pounds	do	550 pounds.
*Lacquer, <i>See</i> *Paint, enamel, lacquer, stain, shellac, varnish, etc.						
*Lacquer base, liquid. <i>See</i> *Paint, enamel, lacquer, stain, shellac, varnish, etc.						
*Lacquer base or lacquer chips, dry	F.S.	173.153, 173.175	Red striped	100 pounds	25 pounds	100 pounds.
*Lacquer base or lacquer chips, plastic (<i>wet with</i> <i>alcohol or solvent</i>)	F.L.	173.116, 173.127	Red	25 pounds	1 quart	25 pounds.
*Lacquer removing, reducing and thinning com- pounds. <i>See</i> *Compounds, lacquer, paint, or varnish removing, reducing, or thinning liquids.						
Lauroyl peroxide	Oxy. M	173.153 (b) 173.157, 173.158	Peroxide	do	2 pounds	Do.
Lead arsenate, solid	Pois. B	173.364, 173.367	Poison B	200 pounds	50 pounds	200 pounds.
Lead arsenite, solid	Pois. B	173.364, 173.365	do	do	do	Do.
<i>Lead azide. See Initiating explosive.</i>						
Lead cyanide	Pois. B	173.370	do	do	25 pounds	No limit.
<i>Lead mononitrosorcinates. See Initiating explosive.</i>						
Lead nitrate	Oxy. M	173.153, 173.182	Yellow	100 pounds	do	100 pounds.
<i>Lead styphate (lead trinitrosorcinates). See Initiating</i> <i>explosive.</i>						
*Leather bleach	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
*Leather dressing	F.L.	173.118, 173.119	do	do	do	Do.
Lewisite	Pois. A	No exemption, 173.228	Poison A	Not accepted	Not accepted	Not accepted.
Lighter fluid	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Liquefied hydrocarbon gas	F.G.	173.306, 173.304, 173.314	Red Gas	300 pounds	Not accepted	300 pounds.
Liquefied nonflammable gases charged with nitro- gen, carbon dioxide or air.	Nonf. G	173.306, 173.304	Green	do	30 pounds	30 pounds.
*Liquefied petroleum gas	F.G.	173.306, 173.304, 173.314, 173.315.	Red Gas	do	Not accepted	300 pounds.
<i>Liquids other than those classified as flammable, cor- rosive, or poisonous charged with nitrogen, carbon</i> <i>dioxide or air. See Compressed gases, n.o.s.</i>						
Lithium aluminum hydride	WRM	No exemption, 173.206	Blue	25 pounds	do	25 pounds.
Lithium aluminum hydride, ethereal	F.L.	No exemption, 173.187	Red	1 quart	do	1 quart.
Lithium amide, powdered	WRM	173.153, 173.168	Blue	100 pounds	25 pounds	100 pounds.
Lithium ferro silicon	WRM	No exemption, 173.206	do	25 pounds	Not accepted	25 pounds.
Lithium hydride	WRM	No exemption, 173.206	do	do	do	Do.
Lithium hydride in solid forms	WRM	No exemption, 173.206	do	100 pounds	do	100 pounds.
Lithium hypochlorite compounds, dry (<i>containing</i> <i>more than 39% available chlorine</i>)	Oxy. M	173.153, 173.217	Yellow	do	50 pounds	Do.
Lithium metal	WRM	No exemption, 173.206	Blue	25 pounds	Not accepted	25 pounds.
Lithium metal, in cartridges	WRM	<i>See</i> 173.206	do	do	1 pound	Do.
Lithium peroxide	Oxy. M	173.153(a), 173.154	Yellow	100 pounds	25 pounds	100 pounds.
Lithium silicon	WRM	No exemption, 173.206	Blue	25 pounds	Not accepted	25 pounds.
London purple, solid	Pois. B	173.364, 173.365	Poison B	200 pounds	50 pounds	200 pounds.
Low explosives	Expl. A	No exemption, 173.60	Orange A	Not accepted	Not accepted	Not accepted.
<i>Low blasting explosives. See Low explosives.</i>						
Magnesium arsenate, solid	Pois. B	173.364, 173.367	Poison B	200 pounds	50 pounds	200 pounds.
Magnesium dross, wet or hot	SCM	Forbidden, 173.178				
*Magnesium, metallic (powdered, pellets, turnings or ribbon)	WRM	173.153, 173.220	Blue	100 pounds	25 pounds	100 pounds.
Magnesium nitrate	Oxy. M	173.153, 173.182	Yellow	do	do	Do.
Magnesium perchlorate	Oxy. M	173.153, 173.184	do	do	do	Do.
Magnesium peroxide, solid	Oxy. M	173.153, 173.154	do	do	do	Do.
Magnesium scrap (borings, clippings, shavings, sheets, turnings or scalings)	WRM	173.153, 173.220	Blue	do	Not accepted	Not accepted.
<i>Matches, block. See Matches, strike anywhere.</i>						

Commodity List of Hazardous Materials—Continued

Article	Classed as	Exemptions and packaging (see sec.)	Label required (if not exempt)	Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
Matches, book, card, or strike-on-box	F.S.	173.176(g)	Red Striped	No limit	50 pounds	50 pounds
Matches, strike-anywhere	F.S.	No exemption, 173.176	do	60 pounds	Not accepted	Not accepted
*Medicines, n.o.s. See *Drugs, chemicals, medicines, or cosmetics, n.o.s.						
Mentetrahydro phthalic anhydride	Cor. L.	No exemption, 173.298	Corrosive Liquid	1 quart	do	1 quart
*Mercaptan mixtures, aliphatic	F.L.	No exemption, 173.141	Red	10 gallons	do	10 gallons
*Mercurial liquid, n.o.s.	Pois. B.	173.365, 173.366	Poison B.	55 gallons	1 quart	55 gallons
Mercuric acetate	Pois. B.	173.364, 173.365	do	200 pounds	50 pounds	200 pounds
Mercuric ammonium chloride, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric benzoate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric bromide, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric chloride	Pois. B.	173.364, 173.373, 173.370	do	do	do	Do.
Mercuric cyanide, solid	Pois. B.	173.370	do	do	do	Do.
Mercuric iodide, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric iodide solution	Pois. B.	173.345, 173.346	do	55 gallons	1 quart	55 gallons
Mercuric oleate, solid	Pois. B.	173.364, 173.365	do	200 pounds	50 pounds	200 pounds
Mercuric oxide, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric oxycyanide, solid	Pois. B.	173.364, 173.365	do	do	25 pounds	Do.
Mercuric potassium cyanide, solid	Pois. B.	173.364, 173.365, 173.370	do	do	do	Do.
Mercuric potassium iodide, solid	Pois. B.	173.364, 173.365	do	do	50 pounds	Do.
Mercuric salicylate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric subsulfate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric sulfate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuric sulfo cyanate, solid (mercuric thiocyanate)	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercuriol (mercury succinate), solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercurous acetate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercurous bromide, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercurous gluconate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercurous iodide, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercurous nitrate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercurous oxide, black, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercurous sulfate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercury compounds, n.o.s. (solid)	Pois. B.	173.364, 173.365	do	do	do	Do.
Mercury fulminate. See Initiating explosive.						
Methanol. See Methyl alcohol.						
Methane	F.G.	173.308, 173.304	Red Gas	300 pounds	Not accepted	300 pounds
Methyl acetate	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Methyl acetone	F.L.	173.118, 173.119	do	do	do	Do.
Methylacetylene-15% to 20% propadiene, mixture	F.G.	173.308, 173.304, 173.314	Red Gas	300 pounds	Not accepted	300 pounds
Methyl alcohol (methanol)	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Methyl bromide and chloroform mixture, liquid	Pois. B.	No exemption, 173.353	Poison B.	55 gallons	Not accepted	55 gallons
Methyl bromide and ethylene dibromide mixture, liquid	Pois. B.	No exemption, 173.353	do	do	do	Do.
Methyl bromide and nonflammable, nonliquefied compressed gas mixtures, liquid	Pois. B.	No exemption, 173.353	do	300 pounds	do	300 pounds
Methyl bromide, liquid (bromomethane)	Pois. B.	No exemption, 173.353	do	55 gallons	do	55 gallons
Methyl chloride	F.G.	173.308, 173.304, 173.314, 173.315	Red Gas	300 pounds	do	300 pounds
Methyl chloride-methylene chloride mixture	F.G.	173.308, 173.304, 173.314	do	do	do	Do.
Methyl chloroformate	Cor. L.	No exemption, 173.298	Corrosive Liquid	5 pints	do	5 pints
Methylchloromethyl ether, anhydrous	F.L.	No exemption, 173.143	Red	Not accepted	do	Not accepted
Methyldichloroamine	Pois. A.	No exemption, 173.323	Poison A.	do	do	Do.
Methyl dichlorosilane	F.L.	No exemption, 173.136	Red	10 gallons	do	10 gallons
Methyl ethyl ketone	F.L.	173.118, 173.119	do	do	1 quart	Do.
Methyl formate	F.L.	173.118, 173.119	do	do	do	Do.
Methyl hydrate. See Alcohol, n.o.s.						
Methylhydrazine	F.L.	No exemption, 173.145	do	5 pints	Not accepted	5 pints
Methyl iso-propenyl ketone, inhibited	F.L.	173.118, 173.119	do	10 gallons	1 quart	10 gallons
Methyl magnesium bromide in ethyl ether to concentrations not over 10%	F.L.	No exemption, 173.140	do	6 quarts	Not accepted	3 ounces
Methyl mercaptan	F.G.	173.308, 173.304, 173.314, 173.315	Red Gas	300 pounds	do	300 pounds
Methyl methacrylate monomer	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Methyl parathion, liquid	Pois. B.	No exemption, 173.353	Poison B.	1 quart	Not accepted	1 quart
Methyl parathion mixture, dry	Pois. B.	173.377	do	200 pounds	do	200 pounds
Methyl parathion mixture, liquid	Pois. B.	173.359	do	1 quart	do	1 quart
Methyl pentane	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Methyltrichlorosilane	F.L.	No exemption, 173.136	do	do	do	Do.
Methyl vinyl ketone, inhibited	F.L.	173.147	do	do	4 ounces	Do.
Mild detonating fuse, metal clad. See Fuse.						
Mine rescue equipment	Nonf. G.	173.308(a)(2), 173.708(d)	Green	300 pounds	150 pounds	300 pounds
Mines, empty		See 173.55				
Mines, explosive, with gas material. See Explosive mines.						
Mixed acid. See Nitrating (mixed) acid.						
Mixtures of hydrofluoric and sulfuric acid. See Hydrofluoric and sulfuric acids, mixtures.						
Monobromotrifluoromethane	Nonf. G.	173.308, 173.304, 173.314	do	do	do	Do.
Monochloroacetic acid, solution	Cor. L.	173.244, 173.294	Corrosive Liquid	1 quart	1 quart	1 quart
Monochloroacetone, stabilized	Irr.	No exemption, 173.394	Irritant	5 gallons	Not accepted	5 gallons
Monochloroacetone, unstabilized	Irr.	Not accepted	do	Not accepted	do	Not accepted
Monochlorodifluoromethane	Nonf. G.	173.308, 173.304, 173.314, 173.315	Green	300 pounds	150 pounds	300 pounds
Monochloroethylene. See Vinyl chloride.						
Monochloropentafluoroethane	Nonf. G.	173.308, 173.304	do	do	do	Do.
Monochlorotetrafluoroethane	Nonf. G.	173.308, 173.304, 173.314	do	do	do	Do.
Monochlorotrifluoroethane	Nonf. G.	173.308, 173.304	do	do	do	Do.
Monomethylamine	F.L.	173.118, 173.148	Red	10 gallons	1 quart	10 gallons
Monofluorophosphoric acid, anhydrous	Cor. L.	No exemption, 173.275	Corrosive liquid	1 gallon	Not accepted	1 gallon
Monomethylamine, anhydrous	F.G.	173.308, 173.304, 173.314, 173.315	Red Gas	300 pounds	do	300 pounds
Monomethylamine, aqueous solution	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
*Mortar stain, liquid	F.L.	173.118, 173.128	do	55 gallons	do	55 gallons
Motion picture film. See Film.						
Motorcycles		173.120				
Motor fuel antiknock compound	Pois. B.	No exemption, 173.354	Poison B.	do	Not accepted	Do.
*Motor fuel, n.o.s.	F.L.	173.118, 173.119, 173.120	Red	10 gallons	1 quart	10 gallons
Motors, internal combustion						
Muratic acid. See Hydrochloric acid.						
Mustard gas (dichlorodithyl sulfide)	Pois. A.	No exemption, 173.328	Poison A.	Not accepted	Not accepted	Not accepted

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
*Naphtha	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
*Naphtha, distillate	F.L.	173.118, 173.119	do.	do.	do.	Do.
*Naphtha, petroleum. See *Petroleum naphtha.						
*Naphtha, solvent	F.L.	173.118, 173.119	do.	do.	do.	Do.
Natural gasoline. See Gasoline.						
Neohexane	F.L.	173.118, 173.119	do.	do.	do.	Do.
Neon gas	Nonf. G.	173.306, 173.302	Green	300 pounds	150 pounds	300 pounds.
New explosives or explosive devices		See 173.51(q), 173.86				
Nickel carbonyl	F.L.	No exemption, 173.126	Red	Not accepted	Not accepted	Not accepted.
*Nickel catalyst, finely divided, activated or spent	SCM	No exemption, 173.233	Red Bottom	100 pounds	do.	Do.
Nickel cyanide, solid	Pois. B.	173.370	Poison B	200 pounds	25 pounds	200 pounds.
Nicotine hydrochloride	Pois. B.	173.345, 173.346	do.	55 gallons	1 quart	55 gallons.
Nicotine, liquid	Pois. B.	173.345, 173.346	do.	do.	do.	Do.
Nicotine salicylate	Pois. B.	173.364, 173.365	do.	200 pounds	50 pounds	200 pounds.
Nicotine sulfate, liquid	Pois. B.	173.345, 173.346	do.	55 gallons	1 quart	55 gallons.
Nicotine sulfate, solid	Pois. B.	173.364, 173.365	do.	200 pounds	50 pounds	200 pounds.
Nicotine tartrate	Pois. B.	173.364, 173.365	do.	do.	do.	Do.
Nitrate of ammonia explosive. See High explosives.						
Nitrates, n.o.s.	Oxy. M.	173.153, 173.182	Yellow	160 pounds	25 pounds	100 pounds.
Nitrating (mixed) acid	Cor. L.	No exemption, 173.267	Corrosive Liquid	2 1/2 pints	Not accepted	1 quart.
Nitrating (mixed) acid, spent	Cor. L.	No exemption, 173.248	do.	1 quart	do.	Do.
Nitric acid	Cor. L.	No exemption, 173.268	do.	5 pints	do.	5 pints.
Nitric ether. See Ethyl nitrate.						
Nitric oxide	Pois. A.	No exemption, 173.337	Poison Gas	Not accepted	do.	Not accepted.
Nitrobenzol, liquid (oil of mirbane, nitrobenzene)	Pois. B.	173.345, 173.346	Poison B	55 gallons	1 quart	55 gallons.
Nitro carbo nitrate	Oxy. M.	173.153, 173.182	Yellow	100 pounds	25 pounds	100 pounds.
Nitrocellulose, colloided, granular or flake, wet with not less than 20% alcohol or solvent; or block—wet with not less than 25% alcohol.	F.L.	173.118, 173.127	Red	25 pounds	do.	25 pounds.
Nitrocellulose, colloided, granular or flake, wet with not less than 20% water.	F.S.	173.153, 173.184	Red Striped	100 pounds	do.	100 pounds.
Nitrocellulose, dry. See High explosives.						
Nitrocellulose, wet with not less than 20% water.	F.S.	173.153, 173.184	do.	do.	do.	Do.
Nitrocellulose, wet with not less than 30% alcohol or solvent.	F.L.	173.118, 173.127	Red	25 pounds	1 quart	25 pounds.
Nitrocellulose flakes, wet with not less than 20% alcohol or solvent.	F.L.	173.118, 173.127	do.	do.	do.	Do.
Nitrochlorobenzene, ortho, liquid	Pois. B.	173.345, 173.346	Poison B	55 gallons	do.	55 gallons.
Nitrochlorobenzene, meta or para solid	Pois. B.	173.344, 173.374	do.	200 pounds	50 pounds	200 pounds.
Nitrogen	Nonf. G.	173.306, 173.302, 173.314	Green	300 pounds	150 pounds	300 pounds.
Nitrogen dioxide, liquid	Pois. A and Oxy. M.	No exemption, 173.336	Poison A and Yellow.	Not accepted	Not accepted	Not accepted.
Nitrogen fertilizer solution	Nonf. G.	173.306, 173.304, 173.314	Green	300 pounds	150 pounds	300 pounds.
Nitrogen, liquefied	Nonf. G.	No exemption, 173.304	do.	do.	do.	Do.
Nitrogen peroxide, liquid	Pois. A and Oxy. M.	No exemption, 173.336	Poison A and Yellow.	Not accepted	Not accepted	Not accepted.
Nitrogen tetroxide, liquid	Pois. A and Oxy. M.	No exemption, 173.336	do.	do.	do.	Do.
Nitrogen tetroxide-nitric oxide mixtures containing up to 33.2% weight nitric oxide.	Pois. A and Oxy. M.	No exemption, 173.336	do.	do.	do.	Do.
Nitroglycerin, liquid, undensitized.	Expl. A	173.51(d)				
Nitroglycerin liquid, desensitized. See High explosive, liquid.						
Nitroglycerin, spirits of. See Spirits of nitroglycerin.						
Nitrohydrochloric acid	Cor. L.	No exemption, 173.278	Corrosive Liquid	5 pints	Not accepted	5 pints.
Nitrohydrochloric acid, diluted	Cor. L.	No exemption, 173.278	do.	do.	do.	Do.
Nitro mannite. See Initiating explosive.						
Nitroguanidine, dry. See High explosives.						
Nitroguanidine, wet with not less than 20% water.	F.S.	173.153, 173.184	Red Striped	100 pounds	25 pounds	100 pounds.
Nitroguanidine. See Initiating explosive.						
Nitrostarch, dry. See High explosives.						
Nitrostarch, wet with not less than 30% alcohol or solvent.	F.L.	173.118, 173.127	Red	25 pounds	1 quart	25 pounds.
Nitrostarch, wet with not less than 20% water	F.S.	173.153, 173.184	Red Striped	100 pounds	25 pounds	100 pounds.
Nitrotyl chloride	Nonf. G.	173.306, 173.304, 173.314	Green	300 pounds	Not accepted	300 pounds.
Nitrova. See High explosives.						
Nitrous oxide	Nonf. G.	173.306, 173.304, 173.314	do.	do.	150 pounds	Do.
Nitroxyl	Pois. B.	173.345, 173.346	Poison B	55 gallons	1 quart	55 gallons.
Nonliquefied gases. See Compressed gases, n.o.s.						
Nonliquefied hydrocarbon gas	F.G.	173.306, 173.302	Red Gas	300 pounds	Not accepted	300 pounds.
Nonyl trichlorosilane	Cor. L.	No exemption, 173.280	Corrosive Liquid	10 gallons	do.	10 gallons.
Octadecyltrichlorosilane	Cor. L.	No exemption, 173.280	do.	do.	do.	Do.
Octyl trichlorosilane	Cor. L.	No exemption, 173.280	do.	do.	do.	Do.
*Oil, described as oil, oil, n.o.s., petroleum oil, or petroleum oil, n.o.s.	F.L.	173.118, 173.119	Red	do.	1 quart	Do.
Oil of mirbane. See Nitrobenzol, liquid.						
Oil of vitriol. See Sulfuric acid.						
Oil well cartridges	Expl. C	No exemption, 173.112	Orange C	150 pounds	50 pounds	150 pounds.
Osium (sulfuric acid, fuming)	Cor. L.	173.244, 173.272	Corrosive Liquid	10 pints	Not accepted	5 pints.
Organic peroxides, liquid, n.o.s.	Oxy. M.	No exemption, 173.119(m), 173.221	Peroxide	5 pints	do.	Not accepted.
Organic peroxides, solid n.o.s.	Oxy. M.	No exemption, 173.154, 173.158	do.	25 pounds	2 pounds	25 pounds.
*Organic phosphate compound, liquid, n.o.s.	Pois. B.	No exemption, 173.358	Poison B	1 quart	Not accepted	1 quart.
Organic phosphate compound, mixtures, dry, n.o.s.	Pois. B.	173.377	do.	200 pounds	50 pounds	200 pounds.
Organic phosphate compound, mixtures, liquid, n.o.s.	Pois. B.	173.359	do.	1 quart	Not accepted	1 quart.
*Organic phosphates, n.o.s. mixed with compressed gas.	Pois. A	No exemption, 173.334	Poison Gas	Not accepted	do.	Not accepted
Ortho-nitroaniline	Pois. B.	173.364, 173.373	Poison B	200 pounds	50 pounds	200 pounds.
Oxide, spent	SCM	No exemption, 173.174	Red Bottom	Not accepted	Not accepted	Not accepted.
Oxidizing material, n.o.s.	Oxy. M.	173.153, 173.184	Yellow	25 pounds	25 pounds	25 pounds.
Oxidizing materials with other articles—fumigants		173.182(a), Note 1				
*Oxygen	Nonf. G.	173.306, 173.302, 173.314	Green	300 pounds	150 pounds	300 pounds.
Oxygen, liquefied	Nonf. G.	No exemption, 173.304	do.	do.	Not accepted	Do.

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

Article	Classed as—	Exemptions and packaging (see sec.)	Label required (if not exempt)	Maximum quantity in one package		
				(a)	(b)	(c)
				Rail express	Passenger carrying aircraft	Cargo only aircraft
*Paint driers, liquid	F.L.	173.118, 173.128	Red	55 gallons	1 quart	55 gallons.
*Paint, enamel, lacquer, stain, shellac, varnish, aluminum, bronze, gold, wood, filler, liquid, and lacquer base liquid	F.L.	173.118, 173.128	do	do	do	Do.
*Paint, reducing or thinning compounds. See *Compounds, lacquer, paint or varnish, reducing or thinning liquid, etc.						
Paper caps. See Toy caps						
Paper stock, wet	SCM	No exemption, 173.185	Red Bottom	Not accepted	Not accepted	Not accepted.
Paper waste, wet. See Waste paper, wet.						
Peroxy chlorobenzoyl peroxide. See Chlorobenzoyl peroxide (para).						
Paramenthane hydroperoxide	Oxy. M.	173.153(b), 173.224	Peroxide	1 quart	do	Do.
Paranitraniline (paranitroaniline) solid	Pois. B.	173.364, 173.373	Poison B.	200 pounds	50 pounds	200 pounds.
Parathion and compressed gas mixture	Pois. A.	No exemption, 173.334	Poison Gas	Not accepted	Not accepted	Not accepted.
Parathion, liquid	Pois. B.	No exemption, 173.358	Poison B.	1 quart	do	1 quart.
Parathion mixture, dry, containing more than 8% parathion	Pois. B.	173.377	do	200 pounds	do	200 pounds.
Parathion mixture, dry containing not more than 8% parathion	Pois. B.	173.377	do	do	50 pounds	Do.
Parathion mixture, liquid, containing more than 8% parathion	Pois. B.	173.377	do	1 quart	Not accepted	1 quart.
Parathion mixture, liquid, containing not more than 8% parathion	Pois. B.	173.359	do	do	1 quart	Do.
Paris green, solid	Pois. B.	173.364, 173.367	do	200 pounds	50 pounds	200 pounds.
Pentaborane	SCM	No exemption, 173.138	Red Bottom	Not accepted	Not accepted	Not accepted.
Pentane	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Pentacrythyl tetraazide. See Initiating explosive.						
Peroxide, dry. See High explosive.						
Peracetic acid	Oxy. M.	173.223	Peroxide	5 pints	do	5 pints.
Perchlorates, n.o.s.	Oxy. M.	173.153, 173.154	Yellow	100 pounds	25 pounds	100 pounds.
Perchloric acid, in excess of 75%	Oxy. M.	Forbidden				
Perchloric acid, not in excess of 75%	Cor. L.	173.244, 173.269	Corrosive Liquid	5 pints	Not accepted	5 pints.
Perchloro-methyl-mercaptan	Pois. B.	173.345, 173.360	Poison B.	10 pounds	do	10 pounds.
Percussion caps	Expl. C.	No exemption, 173.107	Orange C	150 pounds	50 pounds	150 pounds.
Percussion fuses	Expl. C.	No exemption, 173.105	do	do	do	Do.
Potassium permanganate. See Potassium permanganate.						
Potassium permanganate, n.o.s.	Oxy. M.	173.153, 173.154	Yellow	100 pounds	25 pounds	100 pounds.
Peroxide, organic. See Organic peroxides.						
Peroxide, organic, solution, liquid, n.o.s.	Oxy. M.	173.153, 173.221	Peroxide	1 quart	1 quart	1 quart.
Petroleum, crude. See Crude oil.						
*Petroleum distillate	F.L.	173.118, 173.119	Red	10 gallons	do	10 gallons.
Petroleum ether	F.L.	173.118, 173.119	do	do	do	Do.
Petroleum gas, liquefied. See Liquefied petroleum gas.						
*Petroleum naphtha	F.L.	173.118, 173.119	do	do	do	Do.
Phenol. See Carbolic acid.						
Phenylcarbamylamine chloride	Pois. A.	No exemption, 173.323	Poison A.	Not accepted	Not accepted	Not accepted.
Phenyldichloroarsine, liquid	Pois. B.	No exemption, 173.354	Poison B.	20 gallons	do	20 gallons.
Phenyl trichlorostilbene	Cor. L.	No exemption, 173.250	Corrosive Liquid	10 gallons	do	10 gallons.
Phosgene (diphosgene)	Pois. A.	No exemption, 173.333	Poison Gas	Not accepted	do	Not accepted.
Phosphoric anhydride (phosphorus pentoxide)	W.B.M.	No exemption, 173.193	Blue	100 pounds	do	100 pounds.
Phosphorus, amorphous, red	F.S.	No exemption, 173.189	Red Striped	11 pounds	do	11 pounds.
Phosphorus oxybromide	Cor. L.	No exemption, 173.271	Corrosive Liquid	1 quart	do	1 quart.
Phosphorus oxychloride	Cor. L.	No exemption, 173.271	do	do	do	Do.
Phosphorus pentachloride	W.B.M.	No exemption, 173.191	Blue	5 pounds	do	5 pounds.
Phosphorus sesquisulfide	F.S.	No exemption, 173.225	Red Striped	11 pounds	do	11 pounds.
Phosphorus tribromide	Cor. L.	No exemption, 173.270	Corrosive Liquid	1 quart	do	1 quart.
Phosphorus trichloride	Cor. L.	No exemption, 173.271	do	do	do	Not accepted.
Phosphorus, white or yellow, dry	SCM	No exemption, 173.190	Red Bottom	Not accepted	do	Do.
Phosphorus, white or yellow, in water	SCM	No exemption, 173.190, 173.222	do	25 pounds	do	25 pounds.
Photographic film. See Film.						
Photographic flash powder. See Fireworks, special or Low explosives.						
Picrates, dry. See High explosives.						
Picrate of ammonia. See High explosives.						
Picric acid, dry. See High explosives.						
Picric acid, wet, not exceeding 16 ounces		See 173.192				
Picric acid, wet, with not less than 10% water, over 16 pounds. See High explosives.						
Picric acid, wet, with not less than 10% water, in excess of 16 ounces but not exceeding 50 pounds.	F.S.	No exemption, 173.193	Red Striped	25 pounds	1 pound	Do.
Pinswheels. See Fireworks, common.						
*Plastic solvent, n.o.s.	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Poison gas, n.o.s.	Pois. A.	No exemption, 173.323	Poison Gas	Not accepted	Not accepted	Not accepted.
Poison gas, flammable, n.o.s.	Pois. A and F.G.	No exemption, 173.323	Poison Gas and Red Gas	do	do	Do.
Poisonous liquids, n.o.s.	Pois. A.	No exemption, 173.323	Poison A.	do	do	Do.
Poisonous liquids, n.o.s.	Pois. B.	173.345, 173.346	Poison B.	55 gallons	1 quart	55 gallons.
Poisonous solids, n.o.s.	Pois. B.	173.364, 173.365	do	200 pounds	50 pounds	200 pounds.
Poison, class C. See Irritating agents, n.o.s.						
*Polishes, metal stove, furniture and wood, liquid	F.L.	173.118, 173.129	Red	55 gallons	1 quart	55 gallons.
*Polymerizable materials		See 173.21(b)				
Potassium arsenate, solid	Pois. B.	173.364, 173.365	Poison B.	200 pounds	50 pounds	200 pounds.
Potassium arsenite, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Potassium bromate	Oxy. M.	173.153, 173.154	Yellow	100 pounds	25 pounds	100 pounds.
Potassium chlorate (potash chlorate)	Oxy. M.	173.153, 173.154	do	do	do	Do.
Potassium cyanide, solid	Pois. B.	173.370	Poison B.	200 pounds	do	200 pounds.
Potassium cyanide, solutions	Pois. B.	173.345, 173.352	do	55 gallons	1 quart	55 gallons.
Potassium dichloroisocyanurate, dry (containing more than 30% available chlorine)	Oxy. M.	173.153, 173.217	Yellow	100 pounds	50 pounds	100 pounds.
Potassium hydrosulfide solution	Cor. L.	173.244, 173.249	Corrosive Liquid	10 gallons	1 quart	5 gallons.
Potassium, metallic	W.B.M.	No exemption, 173.203	Blue	25 pounds	Not accepted	25 pounds.
Potassium, metallic liquid alloy	W.B.M.	No exemption, 173.203	do	1 pound	do	1 pound.

CONTINUED LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Potassium nitrate	Oxy. M.	173.153, 173.153	Yellow	300 pounds	25 pounds	100 pounds
Potassium nitrate mixed (fused) with sodium nitrite	Oxy. M.	173.153, 173.153	do	do	do	Do.
Potassium nitrite	Oxy. M.	173.153, 173.154	do	do	do	Do.
Potassium perchlorate	Oxy. M.	173.153, 173.219	do	do	do	Do.
Potassium permanganate	Oxy. M.	173.153, 173.154, 173.194	do	do	do	Do.
Potassium peroxide	Oxy. M.	No exemption, 173.154	do	do	Not accepted	Do.
Potassium sulfide	F.S.	173.153, 173.207	Red Striped	300 pounds	25 pounds	300 pounds
Pressurized products. See Compressed gas, n.o.s.						
Primers. See Cannon primers, combination primers, or small-arm primers.						
Primers, detonating. See Detonating primers.						
Projectiles, explosives. See Explosive projectile.						
Projectiles, gas, nonexplosive. See Chemical ammunition, class A, B, or C.						
Projectiles, gas, smoke, or incendiary, with booster or booster with or without detonating fuse. See Explosive projectile.						
Projectiles, illuminating, incendiary or smoke with expelling charge but without bursting charge. See Fireworks, special.						
Projectiles, sand-loaded, empty, or solid		See 173.55				
Propene. See Liquefied petroleum gas.						
Propellant explosive, class A	Expl. A	No exemption, 173.93(d)	Orange A	See 173.93	Not accepted	Not accepted
Propellant explosives (liquid), class B	Expl. B	No exemption, 173.93	Orange B	10 pounds	do	10 pounds
Propellant explosives (solid), class B	Expl. B	No exemption, 173.93	do	do	do	Do.
Propellant explosives (solid), class B; and small-arm primers. See Propellant explosives, class B.						
Propellant explosives in water (smokeless powder)	Expl. B	No exemption, 173.93	do	Not accepted	do	Not accepted
Propellant explosives in water, unstable, undecomposed or deteriorated (smokeless powder)	Expl. B	No exemption, 173.93	do	do	do	Do.
*Propyl alcohol. See Alcohol, n.o.s.						
Propylene imine, inhibited	F.L.	No exemption, 173.119	Red	5 pints	do	5 pints
Propylene oxide	F.L.	173.118, 173.119	do	10 gallons	1 quart	10 gallons
Propyl mercaptan	F.L.	No exemption, 173.141	do	do	do	Do.
Propyl trichloroethane	Cor. L.	No exemption, 173.200	Corrosive Liquid	do	do	Do.
Propylene. See Liquefied petroleum gas.						
Prussic acid. See Hydrocyanic acid.						
Pyridine	F.L.	173.118, 173.119	Red	do	do	Do.
Pyrophoric materials, n.o.s. See Spontaneously combustible liquids or solids.						
Pyro sulfuric chloride	Cor. L.	173.244, 173.247	Corrosive Liquid	1 quart	do	1 quart
Pyroxylin plastic scrap	F.S.	No exemption, 173.196, 173.196	Red Striped	See 173.196	Not accepted	Not accepted
Pyroxylin plastics, rods, sheets, rolls, tubes	F.S.	173.197	do	300 pounds	30 pounds	300 pounds
*Pyroxylin solution	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
*Pyroxylin solvent, n.o.s.	F.L.	173.118, 173.119	do	do	do	Do.
Radioactive devices	RAM	173.201(b)	None	No limit	200 curies	200 curies
Radioactive materials, low specific activity (LSA)	RAM	173.201	Radioactive	do	No limit	No limit
Radioactive materials, n.o.s.	RAM	173.201, 173.201	do	See 173.201, 173.201	do	Do.
Radioactive materials, small quantities	RAM	173.201(a)	None	25 curies	25 curies	25 curies
Radioactive materials, special form	RAM	173.201, 173.201	Radioactive	See 173.201, 173.201	No limit	No limit
Rags, oily	SCM	No exemption, 173.199	Red Bottom	Not accepted	Not accepted	Not accepted
Rags, wet	SCM	No exemption, 173.200	do	do	do	Do.
Railway fuses. See Fuses.						
Railway torpedoes. See Torpedoes, railway.						
*Reducing compounds, paint, varnish, lacquer, etc. See *Compounds, lacquer, paint, or varnish, etc., removing, reducing or thinning, liquid.						
Refrigerant gas		See 173.814(c), Table Note 1; 173.815(a), Table Note 2.				
Refrigerating machines	Nonf. G.	173.208(c)	Green	No limit	No limit	No limit
Do	F.G.	173.208(c)	Red Gas	do	do	Do.
Do	F.L.	173.180, 173.208(c)	Red	do	10 pounds	Do.
*Removing compounds, paint, varnish, lacquer, etc. See *Compounds, lacquer, paint, or varnish, etc., removing, reducing or thinning, liquid.						
*Resin solution (resin compound, liquid)	F.L.	173.118, 173.119	do	55 gallons	1 quart	55 gallons
Rifle grenades. See Grenades.						
Rifle powder. See Propellant explosives, class A, Propellant explosives, class B, or Black powder.						
Rocket fireworks. See Fireworks, common.						
Rocket ammunition with empty projectiles	Expl. B	No exemption, 173.90	Orange B	Not accepted	Not accepted	Not accepted
Rocket ammunition with explosive projectiles	Expl. A	No exemption, 173.57	Orange A	do	do	Do.
Rocket ammunition with illuminating projectiles	Expl. A	No exemption, 173.57	do	do	do	Do.
Rocket ammunition with gas projectiles	Expl. A	No exemption, 173.57	do	do	do	Do.
Rocket ammunition with incendiary projectiles	Expl. A	No exemption, 173.57	do	do	do	Do.
Rocket ammunition with inert loaded projectiles	Expl. B	No exemption, 173.90	Orange B	do	do	Do.
Rocket ammunition with smoke projectiles	Expl. A	No exemption, 173.57	Orange A	do	do	Do.
Rocket ammunition with solid projectiles	Expl. B	No exemption, 173.90	Orange B	do	do	Do.
Rocket bodies, with electric primers or electric squibs		See 173.55				
Rocket engines (liquid), class B explosives	Expl. B	No exemption, 173.95	Orange B	do	do	Do.
Rocket heads. See Explosive projectiles.						
Rocket motors, class A explosives	Expl. A	No exemption, 173.79	Orange A	do	do	Do.
Rocket motors, class B explosive	Expl. B	No exemption, 173.92	Orange B	550 pounds	do	550 pounds
Roman candles. See Fireworks, common.						
*Rough ammoniate tankage	SCM	No exemption, 173.219	Red Bottom	Not accepted	do	Not accepted
Rubber scrap or rubber buffings	SCM	173.153, 173.201	do	10 pounds	10 pounds	10 pounds
*Rubber shoddy, regenerated rubber, or reclaimed rubber	SCM	173.153, 173.201	do	do	do	Do.
*Rum, denatured	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons
Safety fuse. See Fuse, safety.						
Safety squibs	Expl. C	No exemption, 173.106	Orange C	150 pounds	30 pounds	150 pounds
Squibs. See Fireworks, common or special.						
Stumps of explosives		See 173.95				
Self-lighting cigarettes	F.S.	173.21(d)	Red striped	Not accepted	Not accepted	Not accepted
Self-propelled vehicles		See 173.120, 173.267, 173.308				

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classified as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Shaped charges, commercial. See High explosives.		See 173.65(h)				
*Shellac. See Paint, enamel, lacquer, stain, shellac, varnish, etc.						
Shells, fireworks. See Fireworks, common or special.						
Ship distress signals. See Fireworks, special.						
Signal flares	Expl. C	No exemption, 173.108	Orange C	200 pounds	50 pounds	200 pounds
Silicon chloride (tetrachloride)	Cor. L	173.244, 173.247	Corrosive Liquid	1 gallon	1 quart	1 gallon
Silicon tetrafluoride	Nonf. G	173.202, 173.203	Green	300 pounds	Not accepted	300 pounds
Silver cyanide	Pois. B	173.270	Poison B	No limit	25 pounds	No limit
Silver nitrate	Oxy. M	173.153, 173.152	Yellow	100 pounds	do	100 pounds
*Sludge acid. See Acid, sludge.						
Small-arms ammunition	Expl. C	No exemption, 173.101	Orange C	150 pounds	50 pounds	150 pounds
Small-arms ammunition, irritating (tear gas) cartridges	Expl. C	No exemption, 173.101	Irritant	do	Not accepted	Do.
Small-arms primers	Expl. C	No exemption, 173.107	Orange C	do	50 pounds	Do.
Smoke generators. See Chemical ammunition Class B or C.						
Smoke candles	Expl. C	No exemption, 173.108	do	200 pounds	do	200 pounds
Smoke grenades	Expl. C	No exemption, 173.108	do	do	do	Do.
Smokeless powder for cannon or small arms. See Propellant explosives, class A or B.						
Smokeless powder for small arms (100 pounds or less)	F.S.	173.22(f), 173.197a	Red Striped	5 pounds	Not accepted	Not accepted
Smoke pots	Expl. C	No exemption, 173.108	Orange C	200 pounds	50 pounds	200 pounds
Smoke projectiles with bursting charges. See Explosive projectile.						
Smoke projectiles with expelling charge but without bursting charge. See Fireworks, special.						
Smoke signals	Expl. C	No exemption, 173.108	do	do	do	Do.
Soda enamel. See High explosives.						
Sodium aluminate solutions	Cor. L	173.244, 173.249	Corrosive Liquid	10 gallons	1 quart	10 gallons
Sodium aluminum hydride	WRM	No exemption, 173.202	Blue	25 pounds	Not accepted	25 pounds
Sodium amide	WRM	No exemption, 173.202	do	do	do	Do.
Sodium arsenate, solid	Pois. B	173.264, 173.265, 173.268	Poison B	200 pounds	do	200 pounds
Sodium arsenite (solution), liquid	Pois. B	173.244, 173.246	do	55 gallons	1 quart	55 gallons
Sodium aside	Pois. B	173.264, 173.275	do	100 pounds	50 pounds	100 pounds
Sodium bromate	Oxy. M	173.153, 173.154	Yellow	do	25 pounds	Do.
Sodium cacodylate, solid (sodium dimethyl arsenate)	Pois. B	173.264, 173.265	Poison B	200 pounds	50 pounds	200 pounds
Sodium chlorate (soda chlorate)	Oxy. M	173.153, 173.155	Yellow	100 pounds	25 pounds	100 pounds
Sodium chlorite	Oxy. M	No exemption, 173.150	do	do	Not accepted	Do.
Sodium chlorite solution (not exceeding 45% sodium chlorite)	Cor. L	173.244, 173.245	Corrosive Liquid	4 gallons	1 quart	4 gallons
Sodium cyanide, solid	Pois. B	173.270	Poison B	200 pounds	25 pounds	200 pounds
Sodium cyanide, solution	Pois. B	173.244, 173.245	do	55 gallons	1 quart	55 gallons
Sodium dichloroarsenate, dry (containing more than 50% available chlorine)	Oxy. M	173.153, 173.247	Yellow	100 pounds	50 pounds	100 pounds
Sodium hydride	WRM	No exemption, 173.202	Blue	25 pounds	Not accepted	25 pounds
Sodium hydroxide (sodium hydroxide)	F.S.	173.153, 173.204	Red Striped	150 pounds	25 pounds	100 pounds
Sodium hydroxide solution	Cor. L	173.244, 173.249	Corrosive Liquid	10 gallons	1 quart	5 gallons
Sodium, metallic	WRM	No exemption, 173.202	Blue	25 pounds	Not accepted	25 pounds
Sodium, metallic, dispersion in organic solvent	WRM	No exemption, 173.202	do	10 pounds	do	10 pounds
Sodium, metallic liquid alloy	WRM	No exemption, 173.202	do	1 pound	do	1 pound
Sodium methylate, dry	WRM	173.153, 173.154	do	100 pounds	25 pounds	100 pounds
*Sodium methylate, alcohol mixture	F.L.	173.112, 173.119	Red	10 gallons	1 quart	10 gallons
Sodium nitrate	Oxy. M	173.153, 173.152	Yellow	100 pounds	25 pounds	100 pounds
Sodium nitrate bags. See Bags, sodium nitrate.						
Sodium nitrite	Oxy. M	173.153, 173.154, 173.204	do	do	do	Do.
Sodium nitrite mixed (fused) with potassium nitrate	Oxy. M	173.153, 173.155	do	do	do	Do.
Sodium nitrite mixtures (sodium nitrate, sodium nitrite, and potassium nitrate)	Oxy. M	173.153, 173.204	do	do	do	Do.
Sodium permanganate	Oxy. M	173.153, 173.154	do	do	do	Do.
Sodium peroxide	Oxy. M	No exemption, 173.157	do	do	Not accepted	Do.
Sodium picramate, wet with at least 50% of water	F.S.	No exemption, 173.202	Red Striped	25 pounds	do	25 pounds
Sodium potassium alloys	WRM	No exemption, 173.202	Blue	do	do	Do.
*Sodium sulfide, anhydrous	F.L.	173.112, 173.207	Red Striped	200 pounds	25 pounds	200 pounds
*Solvents, n.o.s.	F.L.	173.112, 173.119	Red	15 gallons	1 quart	10 gallons
*Sparklers. See Fireworks, common.						
Spent iron mass. See Iron mass, spent.						
Spent iron sponge. See Iron sponge, spent.						
Spent mixed acid. See Nitrating acid.						
Spent oxide. See Oxide, spent.						
Spent sulfuric acid. See Sulfuric acid, spent.						
Spirits of nitroglycerin, 1 to 10%	F.L.	No exemption, 173.123	do	6 quarts	Not accepted	6 quarts
Spirits of nitroglycerin, not exceeding 1% nitroglycerin by weight	F.L.	173.112, 173.123	do	do	1 quart	Do.
Spontaneously combustible liquids, n.o.s.	SCM	No exemption, 173.124	Red Bottom	70 pounds	Not accepted	Not accepted
Spontaneously combustible solids, n.o.s.	SCM	No exemption, 173.124	do	do	do	Do.
Spouting powder. See Black powder or Propellant explosive, class B explosives.						
Spray starting fluid. See Engine starting fluid.						
Spreader cartridges. See Fireworks, special.						
Squibs, electric or safety. See Electric squibs or Safety squibs.						
*Stain. See Paint, enamel, lacquer, stain, shellac, varnish, etc.						
Starter cartridges, jet engine, class B explosives	Expl. B	No exemption, 173.102	Orange B	200 pounds	do	200 pounds
Starter cartridges, jet engine, class C explosives	Expl. C	No exemption, 173.102	Orange C	150 pounds	50 pounds	150 pounds
Storage batteries, wet. See Batteries, electric storage, wet.						
Strontium arsenite, solid	Pois. B	173.264, 173.265	Poison B	200 pounds	do	200 pounds
Strontium chlorate	Oxy. M	173.153, 173.152	Yellow	100 pounds	25 pounds	25 pounds
Strontium chlorate, wet	Oxy. M	173.153, 173.153(a)(6)	do	200 pounds	do	200 pounds
Strontium nitrate	Oxy. M	173.153, 173.152	do	100 pounds	do	100 pounds
Strontium peroxide	Oxy. M	173.153(a), 173.154	do	do	do	Do.
Strychnine and salts thereof, solid	Pois. B	173.264, 173.265	Poison B	200 pounds	50 pounds	200 pounds
Synthetic of lead. See Initiating explosive.						
Succinic acid peroxide	Oxy. M	173.153(b), 173.157, 173.158	Peroxide	25 pounds	2 pounds	25 pounds

COMBUSTIBLE LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Sulfur chloride (<i>mono and di</i>)	Cor. L.	No exemption, 173.247	Corrosive Liquid	1 gallon	Not accepted	1 gallon.
†Sulfur dioxide	Nonf. G.	173.306, 173.304, 173.314, 173.315	Green	300 pounds	do	300 pounds.
Sulfur hexafluoride	Nonf. G.	173.306, 173.304	do	do	150 pounds	Do.
Sulfur trioxide, stabilized	Cor. L.	173.244, 173.273	Corrosive Liquid	1 gallon	Not accepted	Not accepted.
Sulfuric acid (<i>oil of vitriol</i>)	Cor. L.	173.244, 173.273	do	10 pints	1 quart	1 gallon.
Sulfuric acid, spent	Cor. L.	No exemption, 173.244	do	1 quart	Not accepted	1 quart.
Sulfuryl chloride	Cor. L.	173.244, 173.247	do	1 quart	1 quart	Do.
Sulfuryl fluoride	Nonf. G.	173.306, 173.304, 173.314	Green	300 pounds	150 pounds	300 pounds.
Supplementary charges (explosive)	Expl. A.	No exemption, 173.69	Orange A	Not accepted	Not accepted	Not accepted.
Tankage. See Garbage tankage.						
*Tankage fertilizers	F.S.	No exemption, 173.209	Red Striped	do	do	Do.
*Tankages, rough ammoniate	SCM	No exemption, 173.210	Red Bottom	do	do	Do.
Tank car, containing residual phosphorus and filled with water or inert gas.		See 173.232				
Tank cars, empty (last contents poisons, class A)		See 174.562 (d) and (e)				
Tank cars, gas (must not contain gases that combine chemically)		See 173.301(a)				
Tank truck, empty		See 173.29				
*Tar, liquid	F.L.	173.118, 173.131	Red	19 gallons	1 quart	10 gallons.
Tear gas ammunition. See Chemical ammunition.						
Tear gas candles	Irr.	No exemption, 173.365	Irritant	75 pounds	Not accepted	75 pounds.
Tear gas cartridges. See Small-arms ammunition tear gas cartridges.						
Tear gas grenades. See Grenades, tear gas.						
Tear gas material, liquid or solid, n.o.s.	Irr.	No exemption, 173.362	do	do	do	Do.
Tertiary alcohol. See Alcohol, n.o.s.						
Tertiary butylisopropyl benzene, hydroperoxide	Oxy. M.	173.153(b), 173.224	Peroxide	1 quart	1 quart	1 quart.
Tetraethyl dithio pyrophosphate and compressed gas mixture.	Pois. A.	No exemption, 173.354	Poison Gas	Not accepted	Not accepted	Not accepted.
Tetraethyl dithio pyrophosphate, liquid	Pois. B.	No exemption, 173.355	Poison B	1 quart	do	1 quart.
Tetraethyl dithio pyrophosphate, mixture, dry	Pois. B.	173.377	do	200 pounds	50 pounds	200 pounds.
Tetraethyl dithio pyrophosphate, mixture, liquid	Pois. B.	173.359	do	1 quart	Not accepted	1 quart.
Tetraethyl lead, liquid	Pois. B.	No exemption, 173.354	do	55 gallons	do	55 gallons.
Tetraethyl pyrophosphate, liquid	Pois. B.	No exemption, 173.358	do	1 quart	do	1 quart.
Tetraethyl pyrophosphate, mixture, dry	Pois. B.	173.377	do	200 pounds	do	200 pounds.
Tetraethyl pyrophosphate, mixture, liquid	Pois. B.	173.359	do	1 quart	do	1 quart.
Tetraethyl pyrophosphate and compressed gas mixture.	Pois. A.	No exemption, 173.354	Poison Gas	Not accepted	do	Not accepted.
Tetrafluoroethylene, inhibited	F.G.	173.306, 173.304	Red Gas	300 pounds	do	300 pounds.
Tetranitromethane	Oxy. M.	No exemption, 173.268	Yellow	25 pounds	do	Not accepted.
Tetrasene (<i>quanyl nitroaminas quanyl tetrasend</i>). See Initiating explosive.						
Tetryl. See High explosives.						
Textile waste, wet	SCM	No exemption, 173.311	Red Bottom	Not accepted	do	Do.
*Thallium salts, solid, n.o.s.	Pois. B.	173.364, 173.365	Poison B	300 pounds	50 pounds	300 pounds.
Thallium sulfate, solid	Pois. B.	173.364, 173.365	do	do	do	Do.
Thinning compounds, paint, varnish, lacquer, etc. See *Paint, enamel, lacquer stain, shellac, varnish, etc.						
Thiocarbonyl chloride. See Thiophosgene.						
Thionyl chloride	Cor. L.	No exemption, 173.247	Corrosive Liquid	1 gallon	Not accepted	1 gallon.
Thiophosgene (<i>thiocarbonyl-chloride</i>)	Pois. B.	No exemption, 173.358	Poison B	do	do	Do.
Thiophosphoryl chloride	Cor. L.	No exemption, 173.271	Corrosive Liquid	1 quart	do	1 quart.
Thorium metal, powdered	F.S.	173.226	Red Striped	25 pounds	do	25 pounds.
Thorium nitrate, solid	RAM and Ory. M.	173.392, 173.393	Radioactive and Yellow	100 pounds	25 pounds	100 pounds.
Time fuses. See Fuses, time.						
Tin tetrachloride, anhydrous	Cor. L.	173.244, 173.247	Corrosive Liquid	1 quart	1 quart	1 quart.
Titanium metal powder, dry	SCM	No exemption, 173.208	Red Bottom	75 pounds	Not accepted	75 pounds.
Titanium metal powder, wet with not less than 50% water.	SCM	No exemption, 173.208	do	150 pounds	do	150 pounds.
Titanium sulfate solution containing not more than 15% sulfuric acid.	Cor. L.	173.244, 173.297	Corrosive Liquid	1 gallon	1 quart	1 gallon.
Titanium tetrachloride	Cor. L.	173.244, 173.247	do	10 gallons	1 quart	10 gallons.
Toluene (<i>toluol</i>)	F.L.	173.118, 173.119	Red	do	do	Do.
Torches. See Fireworks, common.						
Torpedoes, cap. See Fireworks, special.						
Torpedoes, explosive. See Explosive torpedoes.						
Torpedoes, railway	Expl. B.	No exemption, 173.91	Orange B	200 pounds	Not accepted	200 pounds.
Toy caps	Expl. C.	No exemption, 173.100(p), 173.109	Orange C	150 pounds	50 pounds	150 pounds.
Toy propellant devices	Expl. C.	No exemption, 173.111	do	do	do	Do.
Toy smoke devices	Expl. C.	No exemption, 173.111	do	do	do	Do.
Toy torpedoes. See Fireworks, special.						
Tracers	Expl. C.	No exemption, 173.105	do	do	do	Do.
Tracer fuses	Expl. C.	No exemption, 173.105	do	do	do	Do.
Tractors		See 173.120				
Trailer or truck body with refrigerating or heating equipment on flat cars.		See 173.120(e), 173.205				
Trick matches	Expl. C.	No exemption, 173.111	Orange C	150 pounds	Not accepted	Not accepted.

COMMODITY LIST OF HAZARDOUS MATERIALS—Continued

(1) Article	(2) Classed as—	(3) Exemptions and packaging (see sec.)	(4) Label required (if not exempt)	(5) Maximum quantity in one package		
				(a) Rail express	(b) Passenger carrying aircraft	(c) Cargo only aircraft
Trick noise makers, explosive	Expl. C	No exemption, 173.111	do	do	50 pounds	150 pounds.
Trichloroacetic acid, dry (containing more than 80% available chlorine)	Oxy. M	173.153, 173.217	Yellow	100 pounds	do	100 pounds.
Trichlorosilane	F.L.	No exemption, 173.135	Red	10 gallons	Not accepted	10 gallons.
Trifluorochloroethylene	F.G.	173.305, 173.304, 173.314	Red Gas	300 pounds	do	300 pounds.
Trimethylamine, anhydrous	F.G.	173.305, 173.304, 173.314, 173.315	do	do	do	Do.
Trimethylamine, aqueous solution	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Trimethylchlorosilane	F.L.	No exemption, 173.135	do	do	Not accepted	Do.
Trinitrobenzene, dry. See High explosives.						
Trinitrobenzene, wet containing at least 50% water	F.S.	173.212	Red Striped	16 ounces	16 ounces	16 ounces.
Trinitrobenzoic acid, dry. See High explosives.						
Trinitrobenzoic acid, wet with not less than 10% water	F.S.	No exemption, 173.192, 173.193	do	25 pounds	1 pound	25 pounds.
Trinitrobenzoic acid wet with not less than 10% water, over 25 pounds. See High explosives.						
Trinitroresorcinol. See High explosives.						
Trinitrotoluene, dry. See High explosives.						
Trinitrotoluene, wet with not less than 30% water	F.S.	173.212	do	16 ounces	16 ounces	16 ounces.
Tris-(1-aziridinyl) phosphine oxide	Cor. L	173.244, 173.299a	Corrosive Liquid	1 gallon	1 quart	1 gallon.
*Turpentine substitutes	F.L.	173.118, 173.119	Red	10 gallons	do	10 gallons.
Uranyl nitrate, solid	RAM and Oxy. M	173.392, 173.396	Radioactive and Yellow	100 pounds	25 pounds	100 pounds.
Urea nitrate dry. See High explosives.						
Urea nitrate wet with not less than 10% of water	F.S.	No exemption, 173.192, 173.193	Red Striped	25 pounds	1 pound	25 pounds.
Urea nitrate wet with not less than 10% of water, over 25 pounds. See High explosives.						
*Urea peroxide	Oxy. M	173.153(b), 173.227	Peroxide	do	2 pounds	Do.
Vanadium oxytrichloride	Cor. L	173.244, 173.247a	Corrosive Liquid	do	Not accepted	1 quart.
Vanadium tetrachloride	Cor. L	173.244, 173.247a	do	do	do	Do.
Varnish. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.						
Varnish driers. See *Paint driers, liquid.						
Varnish remover or reducer. See *Compounds, lacquer, paint or varnish removing, reducing, or thinning, liquid.						
Varnish thinning compounds. See *Compounds, lacquer, paint, or varnish removing, reducing, or thinning, liquid.						
Very signal cartridges	Expl. C	No exemption, 173.103	Orange C	200 pounds	50 pounds	200 pounds.
Vinyl acetate	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Vinyl chloride	F.G.	173.305, 173.304, 173.314, 173.315	Red Gas	300 pounds	Not accepted	300 pounds.
Vinyl fluoride, inhibited	F.G.	173.305, 173.304	do	do	do	Do.
Vinylidene chloride, inhibited	F.L.	173.118, 173.119	Red	10 gallons	1 quart	10 gallons.
Vinyl methyl ether, inhibited	F.G.	173.305, 173.304, 173.314	Red Gas	20 pounds	Not accepted	20 pounds.
Vinyl trichlorosilane	F.L.	No exemption, 173.135	Red	10 gallons	do	10 gallons.
War heads. See Explosive projectiles.						
Waste paper, wet	SCM	No exemption, 173.195	Red Bottom	Not accepted	do	Not accepted.
Waste textile, wet	SCM	No exemption, 173.211	do	do	do	Do.
Waste wool, wet	SCM	No exemption, 173.213	do	do	do	Do.
Water reactive solids, n.o.s.	WRM	173.153, 173.154	Blue	25 pounds	do	25 pounds.
*Water treatment compound, liquid	Cor. L	173.244, 173.249	Corrosive Liquid	10 gallons	1 quart	10 gallons.
Wet hair. See Hair, wet.						
Wet textile waste. See Waste textile, wet.						
Wood filler. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.						
Wool waste, wet. See Waste wool, wet.						
X-ray film. See Film.						
Xylene (xylo)	F.L.	173.118, 173.119	Red	do	do	Do.
Xylyl bromide	Irr.	No exemption, 173.252	Irritant	75 pounds	Not accepted	75 pounds.
Zinc ammonium nitrite	Oxy. M	No exemption, 173.228	Yellow	100 pounds	35 pounds	100 pounds.
Zinc arsenate	Pois. B	173.244, 173.255	Poison B	200 pounds	50 pounds	200 pounds.
Zinc arsenite, solid	Pois. B	173.244, 173.255	do	do	do	Do.
Zinc chlorate	Oxy. M	173.153, 173.154	Yellow	100 pounds	25 pounds	100 pounds.
Zinc cyanide	Pois. B	173.272	Poison B	No limit	do	No limit.
Zinc dapt. See Spontaneously combustible liquids, n.o.s.						
Zinc nitrate. See Nitrates, n.o.s.						
Zinc permanganate	Oxy. M	173.153, 173.154	Yellow	100 pounds	do	100 pounds.
Zinc peroxide	Oxy. M	173.153, 173.154	do	do	do	Do.
Zirconium metal, dry, mechanically produced, finer than 370 mesh particle size	SCM	No exemption, 173.314	Red Bottom	75 pounds	Not accepted	75 pounds.
Zirconium metal, dry, chemically produced, finer than 370 mesh particle size	SCM	No exemption, 173.314	do	do	do	Do.
Zirconium metal, wet, mechanically produced, finer than 370 mesh particle size	F.S.	No exemption, 173.314	Red Striped	150 pounds	do	150 pounds.
Zirconium metal, wet, chemically produced, finer than 370 mesh particle size	F.S.	No exemption, 173.314	do	do	do	Do.
Zirconium, metallic, liquid, suspensions	F.L.	No exemption, 173.145	Red	5 pounds	do	5 pounds.
Zirconium picramate, wet with at least 30% of water	Oxy. M	No exemption, 173.314	Yellow	25 pounds	do	25 pounds.
Zirconium scrap (borings, clippings, shavings, sheets or turnings)	F.S.	173.153, 173.228	Red Striped	150 pounds	do	Not accepted.

II. Part 173 would be amended as follows:

(A) In Part 173 Table of Contents Subparts C, D, G would be amended; Subpart H would be amended and redesignated Subpart I; Subpart I would be redesignated Subpart J, a new Subpart H would be added; §§ 173.115, 173.134, 173.150, 173.152, 173.153, 173.326, 173.381, 173.382, 173.402, 173.405, 173.406, 173.407, 173.408, 173.409, 173.410, 173.412 would be amended; § 173.414 would be amended and redesignated 173.411; §§ 173.387, 173.388, 173.414, 173.415 would be added as follows:

Subpart C—Flammable Liquids, and Spontaneously Combustible Materials (Liquid)

- Sec.
- 173.115 Flammable liquids, and spontaneously combustible materials (liquid); definitions.
- 173.134 Spontaneously combustible materials (liquid) not specifically provided for.

Subpart D—Flammable Solids, Spontaneously Combustible Materials (Solid), Water-Reactive Materials (Solid), and Oxidizing Materials

- 173.150 Flammable solids, spontaneously combustible materials (solid) and water-reactive materials (solid), definitions.
- 173.152 Packaging.
- 173.153 Exemptions for flammable solids, spontaneously combustible materials (solid), water-reactive materials (solid), and oxidizing materials.

Subpart G—Poisonous Materials

- 173.326 Extremely dangerous poisons, gases or liquids, class A, definition.
- 173.381 Irritating agents; definition and general packaging requirements.
- 173.382 Irritating agents, not specifically provided for.
- 173.387 Etiologic agents; definition.
- 173.388 Etiologic agents; general packaging requirements.

Subpart H—Radioactive Materials

Subpart I—Marking and Labeling Hazardous Materials

- 173.402 Labeling hazardous materials.
- 173.405 Explosives labels.
- 173.406 Gas labels.
- 173.407 Flammable materials labels.
- 173.408 Spontaneously combustible materials and water-reactive materials labels.
- 173.409 Oxidizing materials labels.
- 173.410 Poisonous materials labels.
- 173.411 Radioactive materials label.
- 173.412 Corrosive liquid label.
- 173.414 Magnetized materials labels for shipment by air.
- 173.415 Cargo aircraft only label.

Subpart J—Shipping Instructions

(B) In § 173.86 paragraph (c) and (d) (6) would be amended to read as follows:

§ 173.86 Samples of explosives and explosive articles.

(c) Shipments of samples of explosives, fireworks, and explosive devices must be packaged, marked, labeled, and described as required by this part for the explosive contained therein.

(d) . . .

(6) Each package containing samples of explosives for laboratory examination must be clearly marked on the outside of the package with the words "SAMPLE FOR LABORATORY EXAMINATION", and labeled in accordance with § 173.402 of this chapter, for the explosive classification tentatively assigned by the shipper.

(C) In § 173.91 paragraph (j) would be canceled as follows:

§ 173.91 Special fireworks.

(j) [Canceled]

(D) In § 173.92 paragraph (e) would be canceled as follows:

§ 173.92 Jet thrust units (jato), class B explosives; rocket motors, class B explosives; igniters, jet thrust (jato), class B explosives; igniters, rocket motors, class B explosives; and starter cartridges, jet engine, class B explosives.

(e) [Canceled]

(E) In § 173.93 paragraph (g) (2) would be canceled as follows:

§ 173.93 Propellant explosives (solid) for cannon, small arms, rockets, guided missiles, or other devices, and propellant explosives (liquid).

(g) . . .

(2) [Canceled]

(F) In § 173.94 paragraph (d) would be canceled as follows:

§ 173.94 Explosive power devices, class B.

(d) [Canceled]

(G) In § 173.101 paragraphs (c) and (d) would be amended to read as follows:

§ 173.101 Small-arms ammunition.

(c) Packages of small-arms ammunition are exempt from the labeling requirements of § 173.402, but the outside of each package must be plainly marked "SMALL-ARMS AMMUNITION".

(d) Each package of cartridges containing irritating agents must, in addition to marking prescribed herein, be marked "IRRITATING AGENTS." Additionally, each package must be labeled with an "Irritant" label.

(H) Subpart C heading would be amended to read as follows:

Subpart C—Flammable Liquids, and Spontaneously Combustible Materials (Liquid)

(I) In § 173.115 the heading and paragraph (c) would be amended; Note 1 following paragraph (c) would be canceled as follows:

§ 173.115 Flammable liquids, and spontaneously combustible materials (liquid); definitions.

(c) A spontaneously combustible liquid is any liquid which may undergo spontaneous heating or self-ignition under conditions normally incident to trans-

portation, or which may heat up in contact with air and then be likely to ignite.

Note 1: [Canceled]

(J) In § 173.134 the heading and the introductory text of paragraph (a) would be amended to read as follows:

§ 173.134 Spontaneously combustible materials (liquid) not specifically provided for.

(a) Spontaneously combustible liquids, other than those for which special requirements are prescribed in this part, must be packaged in specification containers as follows:

(K) Subpart D heading would be amended to read as follows:

Subpart D—Flammable Solids, Spontaneously Combustible Materials (Solid), Water-Reactive Materials (Solid), and Oxidizing Materials

(L) Section 173.150 would be amended to read as follows:

§ 173.150 Flammable solids, spontaneously combustible materials (solid), and water-reactive materials (solid), definitions.

For the purpose of Parts 170-189 of this chapter:

(a) "Flammable solid" means any solid material, other than one classified as an explosive, which, under conditions normally incident to transportation is liable to cause fires through friction, retained heat from manufacturing or processing, or which can be ignited readily and when ignited burns so vigorously and persistently as to create a serious transportation hazard.

(b) "Spontaneously combustible material (solid)" means any solid substance (including sludges and pastes) which may undergo spontaneous heating or self-ignition under conditions normally incident to transportation, or which may heat up in contact with air and then be likely to ignite.

(c) "Water-reactive material (solid)" means any solid substance (including sludges and pastes) which, by interaction with water, is likely to become spontaneously flammable or to give off flammable or toxic gases in dangerous quantities.

(M) Section 173.152 would be amended to read as follows:

§ 173.152 Packaging.

(a) Flammable solids, spontaneously combustible solids, water-reactive solids, and oxidizing materials must not be packaged in the same package with corrosive liquids unless the corrosive liquids are in bottles, cushioned by non-combustible absorbent material, in tightly closed metal cans.

(1) Materials in quantity not exceeding four ounces, in securely closed metal cans, packaged in the same inner receptacle with other securely packaged materials which are necessary for a complete fumigant, are acceptable for transportation.

(b) Water-reactive solids must, in addition to the specified packaging, be packaged in water-proof packagings.

(c) All packages must be tightly and securely closed. Inside receptacles must be cushioned as prescribed or in any case as necessary to prevent breakage or leakage.

(N) In § 173.153 the heading and paragraph (a) would be amended to read as follows:

§ 173.153 Exemptions for flammable solids, spontaneously combustible materials (solid), water-reactive materials (solid), and oxidizing materials.

(a) Flammable solids, spontaneously combustible solids, water-reactive solids, and oxidizing materials (other than organic peroxides), except those for which no exemptions are provided as indicated by the "No exemption" statement in § 172.5 of this chapter, in inside containers not over 1 pound net weight each, in outside containers not exceeding 25 pounds net weight each are, unless otherwise provided, exempt from specification packaging, marking and labeling requirements, except that marking name of contents on outside container is required for shipments via carrier by water. Shipments for transportation by highway carriers are exempt also from Part 177 of this chapter, except § 177.817, and Part 397 of this title. (See § 173.182 for exemptions for nitrates, and paragraph (b) of this section for exemptions for organic peroxides.)

(O) Subpart G heading would be amended to read as follows:

Subpart G—Poisonous Materials:

(P) In § 173.325 paragraph (a) (3) would be amended to read as follows:

§ 173.325 Classes of poisonous materials.

(a)
(3) Irritating agents solids, liquids, or gases (including tear gas and other lachrymatory substances).

(1) Where the regulations refer to poisons, class C, or tear gas, these terms mean irritating agents.

(Q) In § 173.326 the heading would be amended to read as follows:

§ 173.326 Extremely dangerous poisons, gases or liquids, class A, definition.

(R) Section 173.381 would be amended to read as follows:

§ 173.381 Irritating agents; definition and general packaging requirements.

(a) For the purpose of Parts 170-189 of this chapter, irritating agents are those materials which, when exposed to air, or upon contact with fire, give off dangerous or intensely irritating fumes. The term includes riot control agents, tear gases, and other lachrymatory materials, and is often listed in these regulations by the former generic name "tear gas".

(b) All packagings and receptacles must be tightly and securely closed. In-

ner receptacles must be cushioned, as necessary, to prevent breakage or leakage under conditions normally incident to transportation.

(c) Irritating agents may not be offered for transportation if there are interconnecting means of any type between packages.

(S) In § 173.382 the Heading would be amended to read as follows:

§ 173.382 Irritating agents, not specifically provided for.

(T) Section 173.387 would be added to read as follows:

§ 173.387 Etiologic agents; definition.

Etiologic agents are extremely dangerous substances that contain disease-producing micro-organisms and that are defined as etiologic agents in § 72.25 of the regulations of the Department of Health, Education, and Welfare (Title 42, Code of Federal Regulations Part 72).

(U) Section 173.388 would be added to read as follows:

§ 173.388 Etiologic agents; general packaging requirements.

(a) Packages of etiologic agents having 1 gallon or less capacity must be prepared for shipment in accordance with the requirements prescribed in § 72.25 of the regulations of the Department of Health, Education, and Welfare (Title 42, CFR, Part 72), or as otherwise approved by the Department of Transportation.

(b) Packages of etiologic agents having a capacity of more than 1 gallon to be shipped by, for, or to the Department of Defense, must be prepared for shipment in accordance with the requirements prescribed in the appropriate regulations of that Department. All other shipments of more than 1 gallon must be approved by the Department of Transportation.

(V) Subpart H heading would be amended and redesignated Subpart I; a new Subpart H would be added to read as follows:

Subpart H—Radioactive Materials

Subpart I—Marking and Labeling Hazardous Materials

(W) In § 173.402 the heading and paragraphs (a), (b) would be amended to read as follows:

§ 173.402 Labeling hazardous materials.

(a) Except as otherwise provided in this part, no person may offer a package containing hazardous materials for transportation unless that package is conspicuously labeled in accordance with the following:

(1) For explosives, an "Orange A", "Orange B", or "Orange C" label as appropriate and as described in § 173.405.

(2) For nonflammable compressed gases, a "Green" label as described in § 173.406.

(3) For flammable compressed gases, a "Red Gas" label as described in § 173.406.

(4) For flammable liquids, a "Red" label as described in § 173.407.

(5) For flammable solids, a "Red Striped" label as described in § 173.407.

(6) For spontaneously combustible materials, a "Red Bottom" label as described in § 173.408.

(7) For water-reactive materials, a "Blue" label as described in § 173.408.

(8) For oxidizing materials other than organic peroxides, a "Yellow" label as described in § 178.409(b). For organic peroxides, a "Peroxide" label as described in § 173.409(c).

(9) For poisonous materials, a "Poison Gas", "Poison A", "Poison B", "Irritant", or "Etiologic" label as appropriate and as described in § 173.410.

(10) For radioactive materials, the "Radioactive White-I", "Radioactive Yellow-II", or "Radioactive Yellow-III" as appropriate and as described in § 173.411.

(11) For corrosive liquids, the "Corrosive Liquid" label as described in § 173.412.

(12) For a metal barrel or drum containing a flammable liquid having a vapor pressure exceeding 16 p.s.i.a., a "Bung Label" as described in § 173.119 (i).

(13) The "Empty Label" as described in § 173.413 must be applied to a packaging which has been emptied and on which the old label has not been removed, obliterated or destroyed. It must be placed on the packaging so that the old label will be completely covered.

(14) For shipments by air, and when appropriate, the following labels must be used:

(i) For magnetized materials, the "Magnetized material" label as described in § 173.414.

(ii) For packages of hazardous materials which are not acceptable on passenger-carrying aircraft, a "Cargo Aircraft Only" label as described in § 173.415.

(b) If the material in a package has more than one hazardous characteristic, one of which is explosives, class A; poison, class A, or radioactive materials, the package must be labeled for each hazard.

(X) Section 173.403 would be amended to read as follows:

§ 173.403 Labels for mixed packing.

(a) When different commodities having different hazard classifications are packaged in separate receptacles within the same packaging or in separate packages within the same outer enclosure as authorized in § 173.25, the package must be labeled to indicate the classification of each material involved.

(Y) In § 173.404 paragraphs (d), (e), (f), (g), and (h) would be amended to read as follows:

§ 173.404 Labels.

(d) Except as otherwise provided in §§ 173.414 and 173.415, labels for packages of hazardous materials must be diamond shape with each side at least 4 inches long. Printing must be in the prescribed colors, and inside a border measuring at least 3.5 inches on each side and as shown in this subpart.

(e) Form identification information may be printed on the labels, in type not larger than 10 point, if placed outside of the black line border of the label.

(f) For important shipments only, foreign labels having the same size, symbols, and color coding as prescribed in these regulations are authorized in place of the labels prescribed in these regulations even though the inscriptions on the labels may be in a foreign language.

(g) For export shipments, each label should be overstamped or overprinted with the appropriate hazard class numeral as listed in § 172.3 of this chapter. The number must be in black, at least 0.25 inch in height, and located in the bottom corner of the label.

(h) Labels remaining on hand and which were authorized by regulations prior to effective date of this order may be used until present stocks are exhausted, but not after 1 year from effective date of order. This provision does not apply to the required use of labels for explosives, radioactive materials, or etiologic agents.

(Z) Section 173.405 would be amended to read as follows:

§ 173.405 Explosives labels.

(a) Labels for packages of explosives must be burnt orange in color. Printing must be in black inside a black line border.

(b) "Orange A" label for packages of explosives, class A.



(c) "Orange B" label for packages of explosives, class B.



(d) "Orange C" label for packages of explosives, class C.

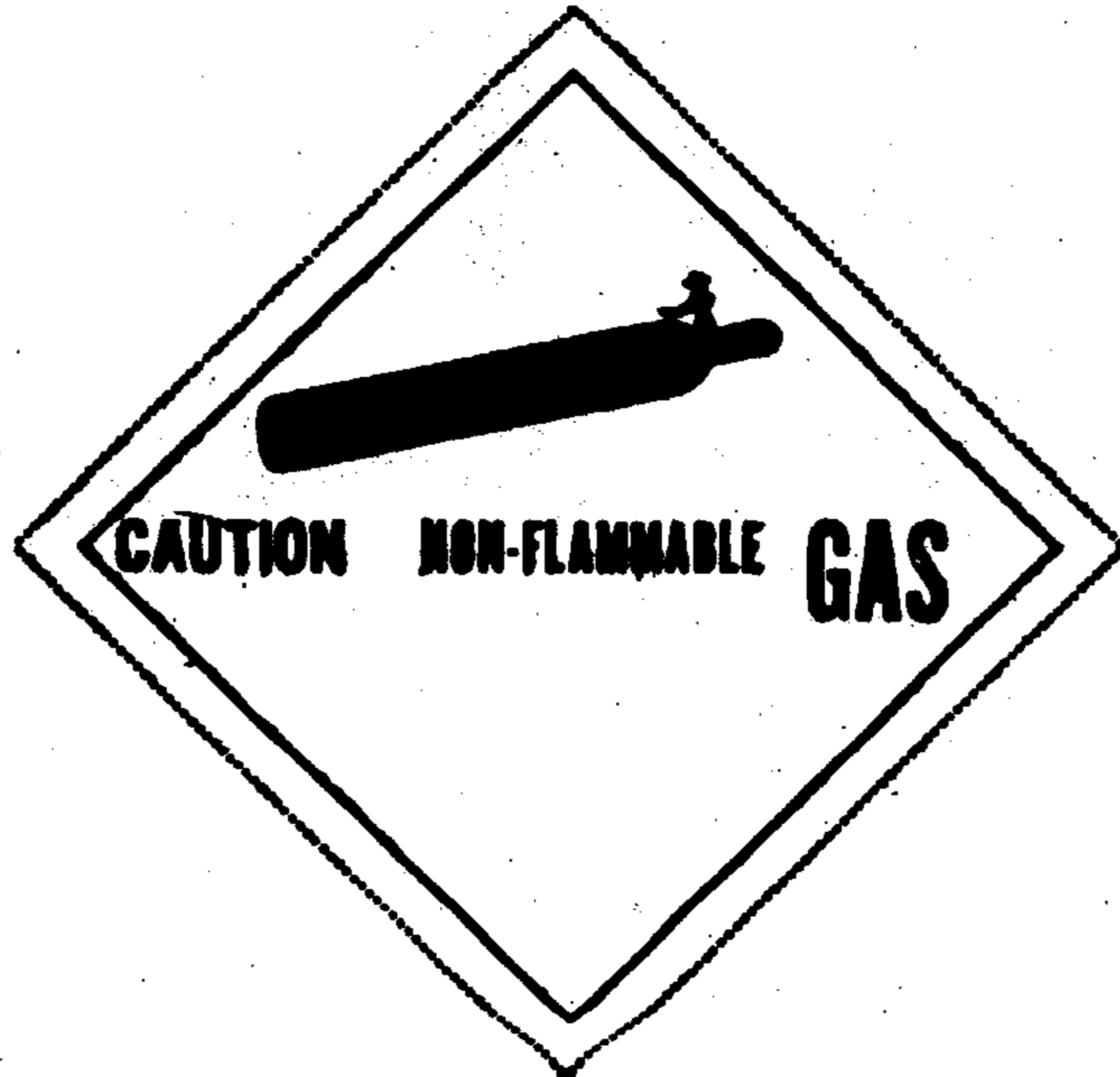


(AA) Section 173.406 would be amended to read as follows:

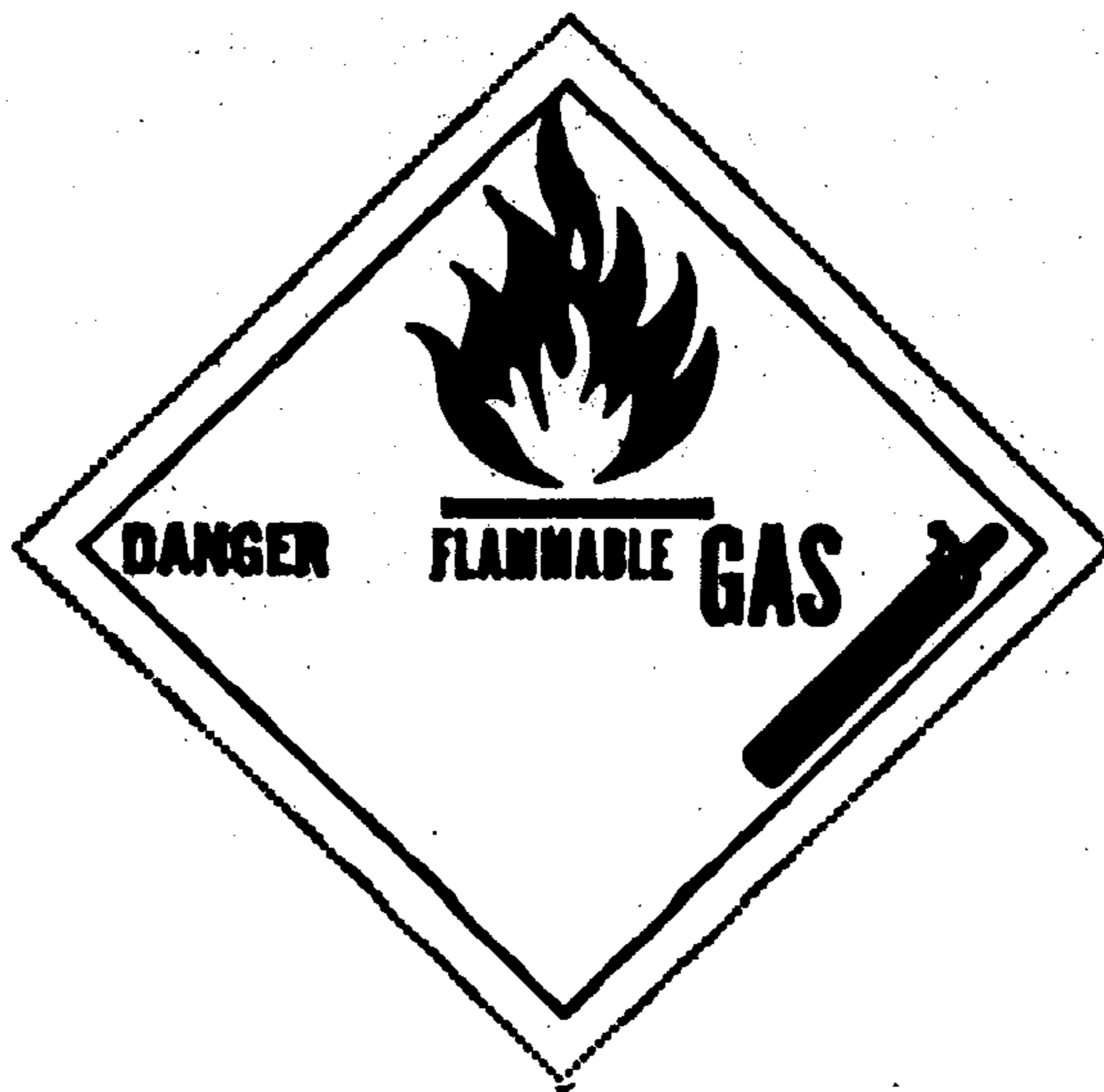
§ 173.406 Gas labels.

(a) Labels for packages of compressed gases must be in the colors specified in this section. Printing must be in black inside a black line border.

(b) Nonflammable compressed gas label. Label must be bright green in color.



(c) "Red Gas" label for packages of flammable gases. Label must be bright red in color.

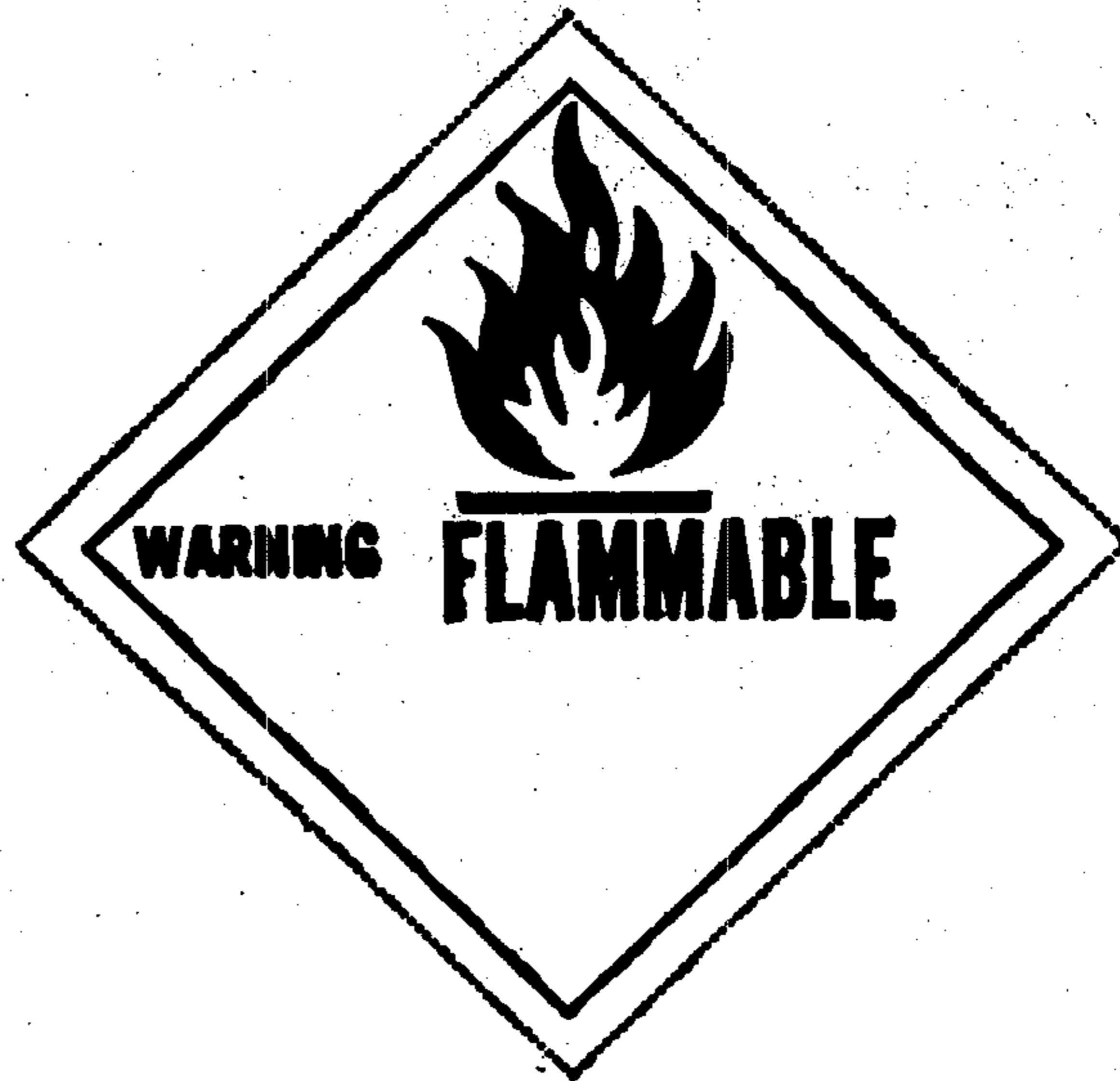


(BB) Section 173.407 would be amended to read as follows:

§ 173.407 Flammable materials labels.

(a) Labels for packages of flammable materials (except gases) must be in colors specified in this section. Printing must be in black inside a black line border.

(b) "Red" label for packages of flammable liquids. Label must be bright red in color.



(c) "Red Striped" label for packages of flammable solids. Label must consist of alternate bright red and white vertical stripes, each stripe 0.375 inch wide, equally spaced, with seven red stripes (one in the center and three on each side).



(CC) Section 173.408 would be amended to read as follows:

§ 173.408 Spontaneously combustible materials and water-reactive materials labels.

(a) Labels for packages of spontaneously combustible materials must be in colors specified in this section. Printing must be black inside a black line border.

(b) "Red Bottom" label for packages of spontaneously combustible materials. The upper half of the label must be white in color and the lower half bright red in color.



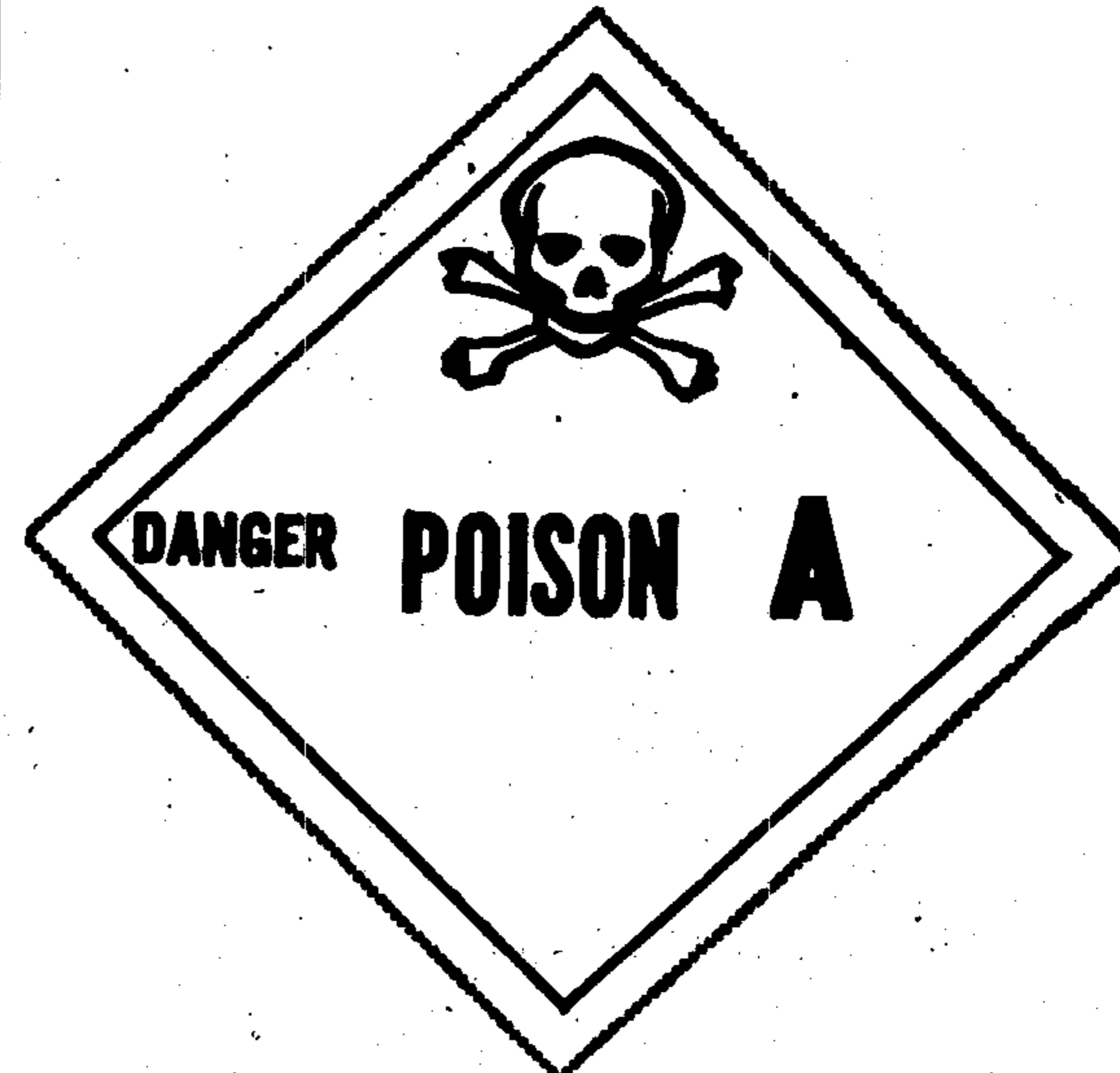
(b) "Yellow" label for packages of oxidizing materials, other than organic peroxides.



(b) "Poison Gas" label for packages of extremely dangerous poisons, class A, gases. Label must have a white background.



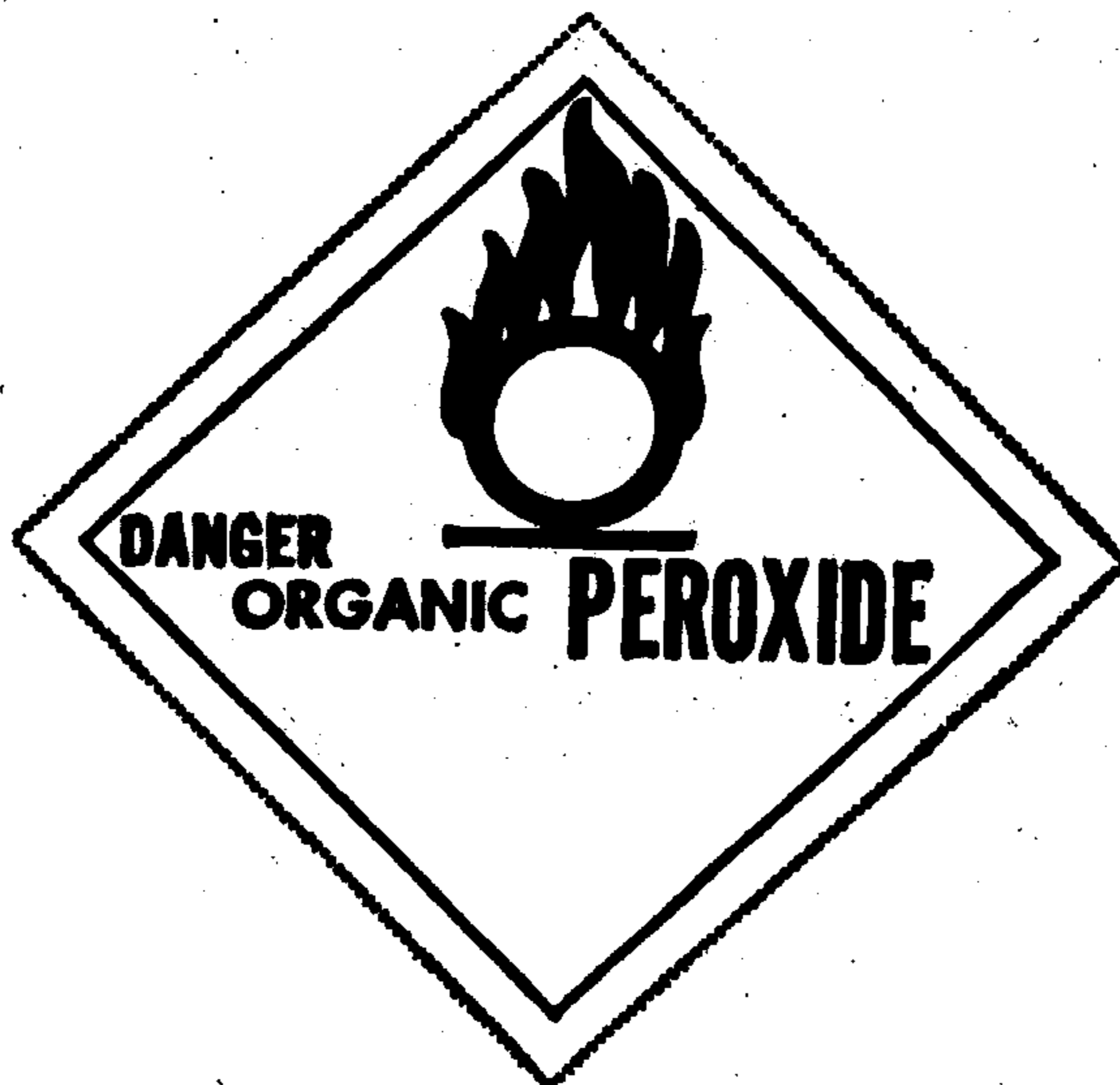
(c) "Poison A" label for packages of extremely dangerous poisons, class A, liquids.



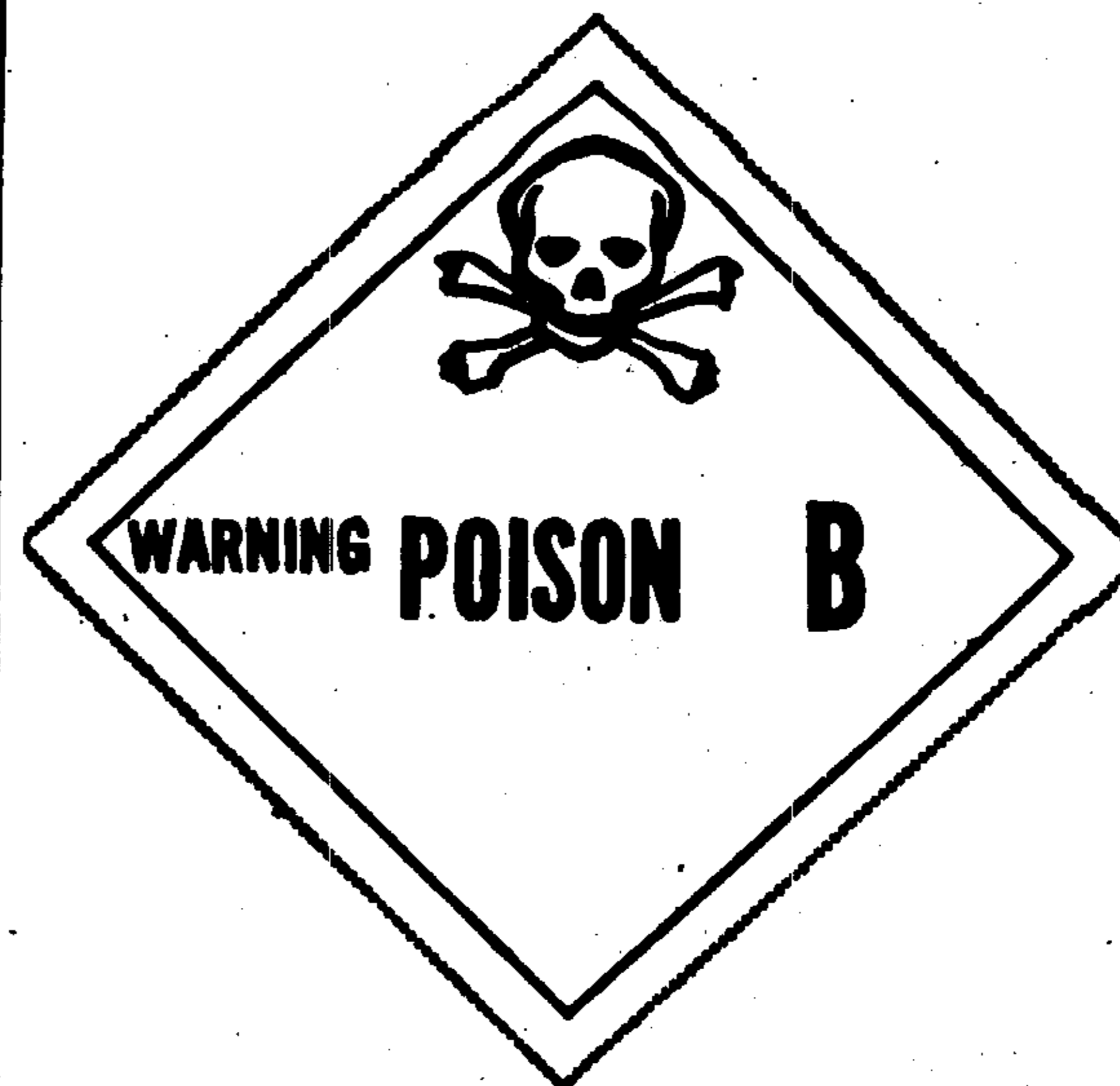
(c) "Blue" label for packages of water-reactive materials. Label must be bright blue in color.



(c) "Peroxide" label for packages of organic peroxides.



(d) "Poison B" label for packages of poisons, solid or liquid, class B.



(EE) Section 173.410 would be amended to read as follows:

§ 173.410 Poisonous materials labels.

(a) Labels for packages of poisonous materials must be white. Except for the "etiologic" label, printing must be in bright red inside a black line border, and the skull-and-crossbones must be in black. For the "etiologic" label, printing must be black inside a black line border, and the bio-hazard symbol must be in bright orange.

(DD) Section 173.409 would be amended to read as follows:

§ 173.409 Oxidizing materials labels.

(a) Labels for packages of oxidizing materials must be bright yellow in color. Printing must be in black inside a black line border.

(e) "Irritant" label for packages of irritating agents.



(f) "Etiologic" label for packages of etiologic agents.



(FF) Section 173.411 would be canceled:

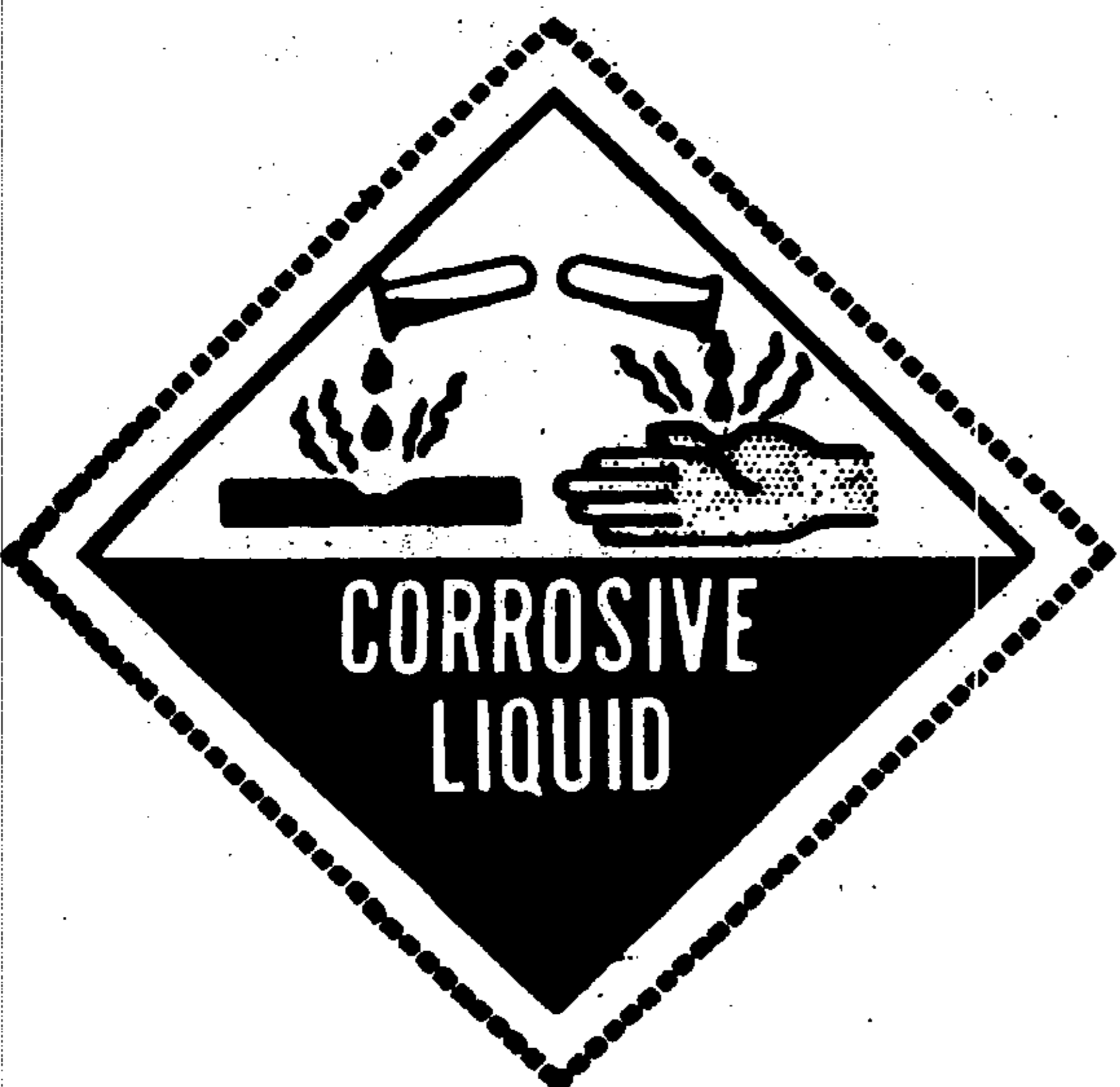
(GG) Section 173.414 would be redesignated as § 173.411.

(HH) Section 173.412 would be amended to read as follows:

§ 173.412 Corrosive liquid label.

(a) Labels for packages of corrosive liquids must be white on the top half of the label, and black on the bottom half. Printing of the symbol on the top half must be in black inside of a black line border. Printing on the bottom half must be in white.

(b) "Corrosive Liquid" label for packages of corrosive liquids.



(II) Section 173.414 would be added, former § 173.414 has been redesignated § 173.411, to read as follows:

§ 173.414 Magnetized materials label for shipment by air.

Labels for packages of magnetized materials must be bright blue on the top half of the label and white on the bottom half. Printing of the symbol on the top half must be in white. Printing on the bottom half must be in bright blue, inside a blue line border.



(JJ) Section 173.415 would be added to read as follows:

§ 173.415 Cargo aircraft only label.

Labels for packages of hazardous materials which are not acceptable on passenger-carrying aircraft must be rectangular in shape measuring at least 5 inches horizontally and 4.5 inches vertically. Labels must be printed in bright orange and black.



(KK) Subpart I would be redesignated as Subpart J to read as follows:

Subpart J—Shipping instructions.

III. Part 174 would be amended as follows:

(A) In Part 174 table of contents §§ 174.532, 174.538, 174.541 would be amended to read as follows:

- Sec. 174.532 Loading other hazardous materials.
- 174.538 Loading and storage chart of hazardous materials.
- 174.541 "Dangerous", "Dangerous—Radioactive Material", or "Caution—Residual Phosphorus" placards.

(B) In § 174.507 the sentence within parenthesis preceding paragraph (a), and paragraph (b) would be canceled; paragraph (c) would be amended and redesignated as paragraph (b) as follows:

§ 174.507 Labels.

(b) Labels as described in §§ 173.404 through 173.414 must be applied to packages as required by §§ 173.402 and 173.403.

(c) [Canceled.]

(C) In § 174.527 paragraph (a) would be amended to read as follows:

§ 174.527 Forbidden mixed loading and storage.

(a) Explosives, class A, and initiating or priming explosives must not be transported together in the same car. Additionally, explosives, class A, must not be transported, loaded, or stored on carrier property with charged electric storage batteries, nor with any other hazardous materials for which labels are prescribed in these regulations except as provided in § 174.538.

(D) In § 174.532 the heading, paragraphs (b) and (c) would be amended to read as follows:

§ 174.532 Loading other hazardous materials.

(b) Flammable liquids ("red" label), spontaneously combustible liquids ("red bottom" label), and flammable compressed gases ("red gas" label) must not be loaded, transported, or stored in cars equipped with any type of lighted heater or open-flame device, or in cars equipped with any apparatus or mechanism utilizing an internal combustion engine in its operation.

(1) Flammable liquid ("red" label), spontaneously combustible liquids ("red bottom" label), and flammable compressed gases ("red gas" label) must not be loaded in truck bodies or trailers equipped with lighted heaters or any automatic heating or refrigerating apparatus, when such truck bodies or trailers are loaded on flat cars.

(2) This prohibition does not apply and heating or refrigeration apparatus may be operated on motor vehicles loaded on flat cars when such motor vehicles are loaded with flammable liquids, spontaneously combustible liquids, and flammable gases, when the lading space is equipped with no electrical apparatus other than nonsparking or explosion-proof types, no combustion apparatus in the lading space, and no connection for return of air from the lading space to any combustion apparatus. The heating system must be such that no part of the lading is heated over 130° F., and conforms to section 393.77 of this title.

(3) Cylinders containing spontaneously combustible liquids, unless packed in strong wooden boxes and secured therein to protect valves, must be loaded with all valves and safety relief devices in the vapor space, and must be secured so that no shifting will occur in transit.

(c) Packages that are required to be

labeled must be loaded so that they cannot fall, and so that other packages cannot fall onto or slide against them. (This does not preclude the use of loading methods that are designed to permit movement of the load provided, however, that such methods are previously approved by the Bureau of Explosives.)

(1) Packages bearing the marking "THIS SIDE UP" or "THIS END UP", must be so loaded and handled.

(2) Except as provided in § 174.538 hazardous materials for which labels are prescribed must not be loaded in the same car with explosives, class A.

(3) Packages with "yellow", "peroxide", or "red striped" labels must not be loaded in the same end of a car containing packages with "corrosive liquid" labels. However, shippers who have obtained prior approval of the Bureau of Explosives may load carload shipments of such articles together when it is known that the mixture of contents would not cause a dangerous evolution of heat or gas.

(E) In § 174.538 the heading would be amended; in the loading and storage chart the classification headings for the three classes of explosives would be amended; items 10 through 14 in both vertical and horizontal columns and footnote b would be amended to read as follows:

§ 174.538 Loading and storage chart of hazardous materials.

(a) . . .

- CLASS A EXPLOSIVES ("ORANGE A" LABEL)
- CLASS B EXPLOSIVES ("ORANGE B" LABEL)
- CLASS C EXPLOSIVES ("ORANGE C" LABEL)

- 10—Flammable liquids ("red" label); spontaneously combustible liquids ("red bottom" label), or flammable compressed gases ("red gas" label).
- 11—Flammable solids ("red striped" label); spontaneously combustible solids ("red bottom" label); water-reactive solids ("blue" label), or oxidizing materials ("yellow" or "peroxide" labels).
- 12—Corrosive liquids ("corrosive liquid" label).
- 13—Nonflammable compressed gases ("green" label).
- 14—Poisons, class A ("poison gas" or "poison A" labels), or etiologic agents ("etiologic" label).

^b Unless loaded in opposite ends of the car, corrosive liquids ("corrosive liquid" label) must not be loaded in the same car with packages bearing "yellow", "peroxide", "red striped", or "red bottom" labels.

(F) In § 174.541 the heading and paragraph (a) (1) would be amended to read as follows:

§ 174.541 "Dangerous", "Dangerous—Radioactive material", or "Caution—Residual phosphorus" placards.

(a) . . .

(1) Cars containing one or more packages bearing "red", "red gas", "red striped", "red bottom", "blue", "yellow", "peroxide", "etiologic", "poison B", or "corrosive liquid" labels, as required by §§ 173.402 and 173.403 of this chapter.

(G) Section 174.543 would be amended to read as follows:

§ 174.543 Placarding cars; passenger trains.

When a car containing one or more packages of any hazardous material, labeled in accordance with Part 173, is hauled in a passenger train, and such car is not occupied by an employee of the carrier, placards must be applied as required by the regulations in this part. However, if any package bears a "poison gas" or "poison A" label, the appropriate placard must be applied to the car regardless of occupancy.

(H) In § 174.544 paragraph (a) (3) would be amended to read as follows:

§ 174.544 Placards not required.

(a) . . .

(3) Cars containing irritating agents, "irritant" label.

(I) In § 174.576 paragraph (b) would be amended to read as follows:

§ 174.576 Intermediate shippers and carriers.

(b) Each carrier offering or delivering for rail transportation any loaded motor vehicle, trailer, semi-trailer, or container containing hazardous materials must show on the shipping paper the information required by § 174.510, the description of the vehicle or container, and the kind of placards applied.

(J) In § 174.584 paragraph (a), including table, would be amended; paragraph (c) would be canceled as follows:

§ 174.584 Waybills, switching orders, or other billing.

(a) The revenue waybill, astray waybill, switching order, or any other billing issued in place thereof, prepared from the shipping order or other shipping paper, or shipping orders used as waybills, must contain the information required by § 174.510. The proper placard notation (for carload shipment) must follow the name of the article and the classification on the billing. The placard endorsement must be at least 3/8-inch high, and must appear on the billing near the space provided for the car number. Notations and endorsements must be as prescribed in the following table:

TABLE

Article	Placard notation	Placard endorsement
Explosives, class A (except blasting caps, 1,000 or less).	"Explosives placard"	"Explosives".
Explosives, class B.	"Dangerous placard"	"Dangerous".
Explosive chemical ammunition containing poisons, class A.	"Explosives and Poison Gas placard"	"Explosives" and "Poison Gas".
Explosives, class C.	None.	None.
Nonflammable compressed gases in containers other than tank cars.	do.	Do.
Nonflammable compressed gases in tank cars.	"Dangerous placard"	"Dangerous".
Flammable compressed gases.	do.	Do.
Flammable liquids.	do.	Do.
Flammable solids.	do.	Do.
Spontaneously combustible materials.	do.	Do.
Water-reactive materials.	do.	Do.
Poisons, class A.	"Poison Gas placard"	"Poison Gas".
Flammable poisons, class A.	"Flammable poison gas placard"	"Flammable poison gas".
Poisons, class B.	"Dangerous placard"	"Dangerous".
Irritating agents.	None.	None.
Etiologic agents.	"Dangerous placard"	"Dangerous".
Radioactive materials with "radioactive-white I" or "radioactive-yellow II" label.	None.	None.
Radioactive materials with "radioactive-yellow III" label.	"Dangerous-radioactive material placard"	"Radioactive".
Corrosive liquids.	"Dangerous placard"	"Dangerous".
Tank cars filled with water or inert gas, and last containing phosphorus.	"Caution—This car contains residual phosphorus and must be kept filled with (water) or (inert gas)."	"Caution-residual phosphorus".
Empty tank cars that last contained flammable poisons, class A.	"Dangerous-flammable poison gas-empty placard"	"Dangerous-flammable poison gas-empty".
Empty tank cars that last contained nonflammable poisons, class A.	"Dangerous-poison gas-empty placard"	"Dangerous-poison gas-empty".

(c) [Canceled]

IV. Part 175 would be amended as follows:

(A) In § 175.655 paragraphs (a), (b), and (h) would be amended to read as follows:

§ 175.655 Protection of packages.

(a) Packages that are required to be labeled must be so handled and loaded so that they cannot fall, and so that other packages cannot fall onto or slide against them.

(b) Packages bearing the marking "THIS SIDE UP" or "THIS END UP" must be so loaded and handled.

(h) Carriers shall prevent contact of contents of packages bearing "yellow," "peroxide," "corrosive liquid," or "red bottom" labels with combustible substances, such as sawdust, shavings, or sweepings, that may be present in express cars. The space should be swept or cleaned.

V. Part 176 would be amended as follows:

(A) In § 176.703 paragraph (f) would be amended to read as follows:

§ 176.703 Acceptable articles.

(f) When slow-burning (nonflammable) motion-picture films are packed in the same outside containers with flammable motion-picture films, the outside packages must bear the red striped label, and the total contents of the outside container must not exceed the quantity or gross weight permitted for flammable films. (See paragraph (e) of this section.)

VI. Part 177 would be amended as follows:

(A) In Part 177 Table of Contents §§ 177.823, 177.837, 177.838, 177.848 would be amended to read as follows:

- 177.823 Exterior placarding of motor vehicles and combinations.
- 177.837 Flammable liquids, and spontaneously combustible liquids.
- 177.838 Flammable solids, spontaneously combustible solids, water-reactive solids, and oxidizing materials.
- 177.848 Loading and storage chart of hazardous materials.

(B) In § 177.815 paragraphs (a), (g), and (h) would be amended; paragraph (f) would be canceled as follows:

§ 177.815 Labels.

(a) Except as otherwise provided for, carriers shall not accept packages of hazardous materials for transportation unless the packages are labeled as required by §§ 173.402 and 173.403 of this chapter.

(f) [Canceled].

(g) Labels must be as described in §§ 173.404 through 173.415 of this chapter.

(h) No person may mark or label any package of hazardous materials with any marking or label of such a size, color, or character which would render inconspicuous or be readily confused with the required markings or labels. This paragraph does not preclude the use of additional hazard information or warnings. (C) In § 177.823 the heading and the

third and fourth items in paragraph (a) (1) Table are amended to read as follows:

§ 177.823 Exterior marking and placarding of motor vehicles and combinations.

- (a) * * *
- (1) * * *

Commodity	Type of placard
Poison, class A, any quantity; etiologic agents, any quantity; Poison, class B, 1,000 pounds or more gross weight.	POISON (Blue letters on white background).
Flammable liquids or solids; spontaneously combustible materials; or water-reactive materials, 1,000 pounds or more gross weight.	FLAMMABLE (Red letters on white background).

(D) In § 177.837 the heading and paragraph (d) would be amended to read as follows:

§ 177.837 Flammable liquids, and spontaneously combustible liquids.

(d) Cylinders containing spontaneously combustible liquids, unless they are packed in strong wooden boxes (see § 173.25 of this chapter) and secured therein to protect the valves, must be loaded with all valves and safety relief devices in the vapor space, and must be secured so that no shifting will occur in transit.

(E) In § 177.838 the heading and paragraph (e) (2) would be amended to read as follows:

§ 177.838 Flammable solids, spontaneously combustible solids, water-reactive solids, and oxidizing materials.

(e) * * *

(2) Matches of whatever character must not be loaded next to packages labeled with a "red", "red gas" or "red bottom" label.

(F) In § 177.848 the heading would be amended; in the Loading and Storage Chart the classification headings for the three classes of explosives would be amended; items 10 through 14 in both vertical and horizontal columns and footnote b would be amended to read as follows:

§ 177.848 Loading and storage chart of hazardous materials.

(a) * * *

CLASS A EXPLOSIVES ("ORANGE A" LABEL)

CLASS B EXPLOSIVES ("ORANGE B" LABEL)

CLASS C EXPLOSIVES ("ORANGE C" LABEL)

- 10—Flammable liquids ("red" label); spontaneously combustible liquids ("red bottom" label), or flammable compressed gases ("red gas" label).
- 11—Flammable solids ("red striped" label); spontaneously combustible solids ("red bottom" label); water-reactive solids ("blue" label), or oxidizing materials ("yellow" or "peroxide" labels).
- 12—Corrosive liquids ("corrosive liquid" label).
- 13—Nonflammable compressed gases ("green" label).
- 14—Poisons, class A ("poison gas" or "poison A" labels), or etiologic agents ("etiologic" label).

Unless loaded in opposite ends of the vehicle, corrosive liquids ("corrosive liquid" label) must not be loaded in the same vehicle with packages bearing "yellow", "peroxide", "red striped", or "red bottom" labels.

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