



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

5292

SUBCHAPTER A—HAZARDOUS MATERIALS
REGULATIONS BOARD

[Docket No. HM-8; Amdts. 172-19, 173-70,
174-17, 175-10, 176-5, 177-24]

LABELING OF HAZARDOUS MATERIALS

The purpose of these amendments to the hazardous materials regulations of the Department of Transportation is to adopt new labels and specify new regulations pertaining to their use on packages containing hazardous materials.

On July 22, 1970, the Hazardous Materials Regulations Board published a notice of proposed rule making, Docket No. HM-8; Notice 70-13 (35 FR 11742), which proposed to change its labeling requirements to be consistent with those contained in the United Nations recommendations. Interested persons were afforded an opportunity to participate in this rule making. Prior to Notice No. 70-13, the Board published a request for public advice on labels and classification in the FEDERAL REGISTER on October 16, 1968 (33 FR 15347), setting out the basis of the United Nations Labeling System. Subsequent to Notice No. 70-13, the Board published Notice No. 71-13 in the FEDERAL REGISTER on May 25, 1971 (36 FR 9449), setting forth additional proposals pertaining to the implementation of the new labeling system. The amendments published herein, however, are derived primarily from the proposals made under Notice No. 70-13 to the extent necessary to adopt the new labels. The other matters proposed under Docket No. HM-8 will be handled in future rule making actions.

The reason for the Board's delay in acting on this docket is the consideration it has been giving to the implementation of a hazard information system, such as was proposed in Docket No. HM-103 published in the FEDERAL REGISTER on June 27, 1972 (37 FR 12660, advanced notice of proposed rule making). Since it was proposed to modify the labels that were proposed in Docket No. HM-8 by the addition of "hazard information blocks" in the lower portion of most of the labels, the Board did not want to impose one change immediately upon another change in an area that would involve considerable effort and expense on the part of regulated industries. However, recent events have convinced the Board that it should no longer delay the implementation of the labeling requirements previously proposed.

The principal reason for immediate adoption of the new labeling requirements now is the fact that a number of foreign governments have adopted the United Nations Labeling System and have made the use of United Nations' labels mandatory. The Board was recently advised by one large shipper that it was having difficulty making shipments into the Federal Republic of Germany since that country has adopted the new labels. The situation has been temporarily alleviated by the granting of an extension to March 31, 1973. Other

countries have advised that the use of the new labels will be made mandatory by January 1, 1974. It has been reported that the United States exports chemicals worth in excess of \$4 billion. This does not include explosives, petroleum products, and consumer materials. A substantial portion of the chemicals exported are classed as hazardous materials. With this in mind, and since the Board has decided to adopt the new labeling requirements, the Board believes it should no longer delay action in this area because of the proposals it has made in Docket No. HM-103. This does not mean the Board is abandoning the proposals it made in that docket; however, it will have to consider appropriate timing for implementation of changes if it decides to adopt the proposals made in Docket No. HM-103.

A number of commenters responding to Notice No. 70-13 indicated their support of the basic purpose of the proposal, i.e., to adopt the United Nations' labels. Many comments were made pertaining to matters outside the scope of the proposal and others to particular matters concerning the implementation of the proposal.

Concerning the content of labels, several commenters requested that no language pertaining to special handling precautions be included on labels, such as the words "Danger," "Warning," or "Caution." One commenter pointed out that the proposed signal words would be inconsistent with the requirements of the Food and Drug Administration in some cases. Concerning the Board's statement that it doubts whether this detailed information should be included on a primary warning label, no commenters presented sufficient justification to include this type of information on the labels. Therefore, the Board has not adopted any of the suggested language that was set forth in the notice. The Board recognizes the limitations on placing detailed handling and emergency procedure information on labels and has decided that the information should not be included on the labels due to space limitations precluding the use of such information in a beneficial manner.

Several commenters raised objections to the use of a skull and crossbones symbol on the irritant label pointing out that, historically, the use of the skull and crossbones has been limited to those materials which are highly or extremely toxic. The Board agrees that it is not appropriate to require the use of this symbol on materials that are intended for use on people and animals. However, this symbol is required on the United Nations' label. Therefore, the Board is adopting two labels for irritants—one containing the skull and crossbones which will be authorized for import and export traffic, and the other for domestic shipments. The Board intends to propose that some other symbol, such as a tearing eye, be adopted in the United Nations recommendations to correct this matter in the future.

A comment was made concerning the proposed change to § 173.86 that would

permit shippers to make tentative classifications of explosives shipped for laboratory examination. The Board agrees that this would permit the exercise of judgment by persons who may not be properly qualified to make explosives classifications. Therefore, the Board has decided that the determination of the classification and appropriate labels to be applied to packages containing these samples will be made by specified elements of the Department of Defense for military explosives, and the Bureau of Explosives for commercial explosives.

Several commenters objected to the requirements for the labeling of Class C explosives. The Board has decided to adopt the exemption for small arms ammunition as proposed in the notice. As to the comments raised concerning primers and percussion caps, no proposal was made to change § 173.107. Paragraph (h) of that section does not require the labeling of these materials. Concerning the Board's proposal that other Class C explosives be labeled, no convincing argument was presented to alter the Board's position that most Class C explosives be labeled to identify their hazards. Future exemptions from labeling in this area will be handled on a case-by-case basis in accordance with the rule making procedures (see § 170.11).

Several commenters questioned the entry "No exemption" in the commodity list, § 172.5, following the entries for certain Class C explosives. The heading of the column is "Exemptions and packing." When there are no small quantity partial exemptions provided for an individual class, or when the nature of the material is such that no small quantity exemption is warranted, the entry "No exemption," followed by section reference means the shipper must look to the referenced section for the requirements that pertain to the material. For example, § 173.101 specifies the packaging and marking requirements for small arms ammunition. There is no small quantity exemption for these materials. Therefore, a "No exemption" entry is entered in the list of hazardous materials. This does not mean that the individual section does not contain an exemption for labeling or certain other requirements.

The notice contained proposals to adopt two new classes—"Water reactive materials" and "Spontaneously combustible materials." The Board has decided to withdraw these proposals for further study. It is not necessary they be adopted to implement the new labeling requirements. Use of the "Dangerous When Wet" and "Spontaneously Combustible" labels in conjunction with specified labels is permitted by this amendment.

A commenter recommended that the Board adopt specifications for the colors on labels. Such a proposal was made by the Board in Docket No. HM-103. The Board agrees that the different colors should be specified due to the wide variations observed in the colors of the labels presently in use. However, since specific color requirements were not proposed in the notice, color specifications are only being included in this amendment by the

See anhydrous.
anhydrous hydrofluoric acid. *See*
hydrofluoric acid, anhydrous.

Article	Classed as	Exemptions and packing (see Sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Battery fluid. <i>See</i> Electrolyte (acid) or Alkaline corrosive battery fluid.				
Benzene (benzol)	F. L.	173.118, 173.119	F. L.	10 gallons.
Benzene phosphorous dichloride	Cor.	173.241, 173.250	Corrosive.	5 pints.
Benzene phosphorus thiodichloride.	Cor.	173.241, 173.250	Corrosive.	5 pints.
Benzine	F. L.	173.118, 173.119	F. L.	10 gallons.
Benzol (benzene)	F. L.	173.118, 173.119	F. L.	10 gallons.
Benzoyl chloride	Cor.	173.241, 173.247	Corrosive.	1 quart.
Benzoyl peroxide	Org. M.	No exemption, 173.157, 173.158	Org. peroxide.	25 pounds.
Benzyl bromide (bromotoluene, alpha).	Cor.	No exemption, 173.281	Corrosive.	5 pints.
Benzyl chloride	Cor.	173.241, 173.255	Corrosive.	1 quart.
Benzyl chloroacetate. <i>See</i> Benzyl chloroformate.				
Benzyl chloroformate.	Cor.	No exemption, 173.285	Corrosive.	5 pints.
Beryllium compounds, n. o. s.	Pois. B.	173.264, 173.265	Pois.	200 pounds.
Black blasting powder. <i>See</i> Black powder.				
Black pellet powder. <i>See</i> Black powder.				
Black powder	Expl. A.	No exemption, 173.101	Expl. A.	Not accepted.
Black powder igniters with empty cartridge bags.	Expl. C.	No exemption, 173.106	Expl. C.	150 pounds.
Black rifle powder. <i>See</i> Black rifle powder.				
Blasting caps—1,000 or less.	Expl. C.	No exemption, 173.103	Expl. C.	See § 173.56.
Blasting caps—more than 1,000.	Expl. A.	No exemption, 173.96	Expl. A.	Not accepted.
Blasting caps with metal clad mild detonating fuse—1,000 or less.	Expl. C.	No exemption, 173.103	Expl. C.	See § 173.56.
Blasting caps with metal clad mild detonating fuse—more than 1,000 or less.	Expl. A.	No exemption, 173.66(c)	Expl. A.	Not accepted.
Blast caps with safety fuse—1,000 or less.	Expl. C.	No exemption, 173.103	Expl. A.	See § 173.56.
Blasting caps with safety fuse—more than 1,000.	Expl. A.	No exemption, 173.66(c), 173.67	Expl. A.	Not accepted.
Blasting caps, electric. <i>See</i> Electric blasting caps.				
Blasting gelatin. <i>See</i> High explosives.				
Blasting powder. <i>See</i> Black powder.				
Boiler compound, liquid.	Cor.	173.241, 173.249	Corrosive.	10 gallons.
Bombs, explosives. <i>See</i> Explosive bomb.				
Bombs, explosives, with gas smoke, or incendiary material. <i>See</i> Explosive bomb.				
Bombs, explosive, incendiary. <i>See</i> Explosive bombs.				
Bombs, fireworks. <i>See</i> Special fireworks.				
Bombs, gas, smoke or incendiary, non-explosive.				
Bombs, incendiary or smoke without burning charge. <i>See</i> Special fireworks.				
Bombs, practice, with electric primers or electric squibs.	See § 173.55.			
Bombs, sand-loaded or empty.	See § 173.55.			
Boosters (explosive).	Expl. A.	No exemption, 173.69	Expl. A.	Not accepted.
Bordeaux arsenites, liquid.	Pois. B.	173.245, 173.346	Pois.	55 gallons.
Bordeaux arsenites, solid.	Pois. B.	173.264, 173.365	Pois.	200 pounds.
Boron tribromide	Cor.	No exemption, 173.251	Corrosive.	1 quart.
Boron trifluoride	Cor.	No exemption, 173.251	Corrosive.	1 quart.
Boron trifluoride	Nonf. C. G.	173.266, 173.362	Nonf. G.	300 pounds.
Bottles, acid or other corrosive liquids. <i>See</i> § 173.25.				
Bromine	F. L.	173.118, 173.119	F. L.	10 gallons.
Bromine fuming.	Pois. A.	No exemption, 173.250	Pois. gas.	Not accepted.
Bromocetone, liquid.	Irr.	No exemption, 173.281	Irritant.	20 pounds.
Bromobenzyl cyanide, liquid.	Cor.	No exemption, 173.251	Corrosive.	1 quart.
Bromine	Cor.	No exemption, 173.281	Corrosive.	100 pounds.
Bromine pentafluoride	Cor.	No exemption, 173.281	Corrosive.	100 pounds.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Chlorpietri mixtures (containing no compressed gas or poisonous liquid, class A).	Pols. B.	No exemption, 173.357.	Pols.	75 pounds.
Chlorine and methyl chloride	Pols. A.	No exemption, 173.329(b).	Pols. gas.	Not accepted.
Chromic acid.	Oxy. M.	173.153, 173.164.	Oxy.	100 pounds.
Chromic acid solution.	Cor.	173.244, 173.245, 173.287.	Corrosive.	1 gallon.
Chromic anhydride. See Chromic acid.				
Chromium trioxide. See Chromic acid.				
Chromyl chloride.	Cor.	No exemption, 173.347.	Corrosive.	1 gallon.
Cigar and cigarette lighter fluid.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Cigarette lighters charged with fuel.	See 173.21(d).			
Clouds, flammable or liquid.	Expl. C.	No exemption, 173.111.	Expl. C.	150 pounds.
Clouds as cylinders. See Chemical ammonium.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Coal briquettes, hot.	Not accepted.			Not accepted.
Coal gas. See Hydrocarbon gas, non-liquefied.				
Coal, ground bituminous, sea coal, coal facings, etc.	See 173.165.			
Coal tar distillate.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Coal tar light oil.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Coal tar naphtha.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Coal tar oil.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Coating solution. Precipitated.	F. S.	No exemption, 173.166.	F. S.	125 pounds.
Cocculus, solid (ash berry).	Pols. B.	173.354, 173.355.	Pols.	250 pounds.
Coke, hot.	Not accepted.			Not accepted.
Colodion.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Colodion cotton, wet. See Wet nitrocellulose.				
Cologne spirits (alcohol).	F. L.	173.118, 173.119.	F. L.	10 gallons.
Colored fire. See Common fireworks.				
Combustion sparks (wood alcohol).	F. L.	173.118, 173.119.	F. L.	10 gallons.
Combustion tars.	Expl. C.	No exemption, 173.105.	Expl. C.	150 pounds.
Combination priming.	Expl. C.	No exemption, 173.107.	Expl. C.	150 pounds.
Compressed gas, flammable or liquid. See High explosives.	See 173.65(b).			
Common fireworks.	Expl. C.	No exemption, 173.100(r), 173.108.	Expl. C.	200 pounds.
*Compounds, cleaning liquid.	Cor.	173.244, 173.245.	Corrosive.	1 quart.
*Compounds, cleaning liquid (containing hydrochloric liquid (muriatic acid)).	Cor.	173.244, 173.245.	Corrosive.	10 pints.
*Compounds, cleaning liquid.	F. L.	173.118, 173.119.	F. L.	10 gallons.
*Compounds, cleaning liquid (Combustion engine oil).	Cor.	173.244, 173.245.	Corrosive.	10 pints.
*Compounds, enamel.	F. L.	173.118, 173.128.	F. L.	55 gallons.
*Compounds, iron or steel rust preventing or removing.	Cor.	173.244, 173.245.	Corrosive.	1 gallon.
*Compounds, lacquer, paint, or varnish, etc., removing, reducing or thinning liquid.	F. L.	173.118, 173.128.	F. L.	55 gallons.
*Compounds, lacquer, paint, or varnish removing liquid.	Cor.	173.244, 173.245.	Corrosive.	1 gallon.
*Compounds, polishing liquid.	F. L.	173.118, 173.128.	F. L.	55 gallons.
*Compounds, tree or weed killing.	F. L.	173.118, 173.119.	F. L.	10 gallons.
*Compounds, tree or weed killing, liquid.	Pols. B.	173.345, 173.346.	Pols.	55 gallons.
*Compounds, tree or weed killing, solid.	Oxy. M.	173.153, 173.154, 173.229.	Oxy.	100 pounds.
*Compounds, type-cleaning liquid.	F. L.	173.118, 173.119.	F. L.	10 gallons.
*Compounds, vulcanizing liquid.	Cor.	173.244, 173.245.	Corrosive.	1 quart.
*Compounds, vulcanizing liquid.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Compressed gases, n.o.s.	Nonfl. C. O.	173.306, 173.308, 173.304, 173.302.	Nonfl. O.	300 pounds.
Compressed gases, n.o.s.	F. C. O.	173.306, 173.308, 173.304, 173.302.	F. G.	300 pounds.
Containers, empty. See Acid carboys, empty, bottles empty, drums empty, cylinders empty.	See 173.29.			

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside box containing by rail express
Cement, leather, or container, liquid.	F. L.	173.118, 173.119.	F. L.	12 gallons.
Cement, linoleum, tile, wallboard, or container, liquid.	F. L.	173.118, 173.121.	F. L.	15 gallons.
Cement, liquid, n.o.s.	F. L.	173.118, 173.119, 173.132.	F. L.	15 gallon.
Cement, pyroxilin.	F. L.	173.118, 173.132.	F. L.	15 gallons.
Cement, rosin, liquid.	F. L.	173.118, 173.119.	F. L.	12 gallons.
Cement, rubber.	F. L.	173.118, 173.132.	F. L.	15 gallons.
Charcoal, activated.	F. S.	173.162.	F. S.	100 pounds.
Charcoal, briquettes.	F. S.	173.162.	F. S.	200 pounds.
Charcoal, crushed.	F. S.	173.162.	F. S.	200 pounds.
Charcoal, shell.	F. S.	173.162.	F. S.	200 pounds.
Charcoal, wood, ground, crushed.	F. S.	173.162.	F. S.	200 pounds.
Charcoal, wood, lump, sized.	F. S.	173.162.	F. S.	100 pounds.
Charcoal screenings, made from "pinon" wood.	F. S.	173.162.	F. S.	200 pounds.
Charcoal, wood screenings other than "pinon" wood screenings.	F. S.	No exemption, 173.162.	F. S.	Not accepted.
Charcoal screenings, wet.	Not accepted.			Not accepted.
Charcoal, wet.	Not accepted.			Not accepted.
Charged oil well perforating guns (total explosive contents in guns exceeding 20 pounds per major cartridge).	Expl. A.	No exemption, 173.33(u), 173.80.	Expl. A.	Not accepted.
Charged oil well jet perforating guns (total explosive contents in guns not exceeding 20 pounds per major cartridge).	Expl. C.	No exemption 173.33(u), 173.110.	Expl. C.	Not accepted.
Chemicals, n.o.s. See "Drugs, chemicals, medicines or cosmetics, n.o.s."				
Chemical ammunition (containing class A poisons, liquids, or gases).	Pois. A.	No exemption, 173.330.	Pois. gas.	Not accepted.
Chemical ammunition (containing class B poisons, liquids or gases).	Pois. B.	173.345, 173.350.	Pois.	55 gallons.
Chemical ammunition (containing irritating material).	Irr.	No exemption, 173.383.	Irritant.	20 pounds.
Chemical ammunition, explosive.	See § 173.59.			
Chloroacetylene, gas, liquid, or solid.	See § 173.286.			
Chloroacetyl chloride.	Cor.	No exemption, 173.253.	Corrosive.	1 quart.
Chlorate and borate mixtures.	Oxy. M.	173.153, 173.229.	Oxy.	100 pounds.
Chlorate and magnesium chloride mixture.	Oxy. M.	173.153, 173.229.	Oxy.	100 pounds.
Chlorates, n.o.s.	Oxy. M.	173.153, 173.163.	Oxy.	100 pounds.
Chlorates, n.o.s., wet.	Oxy. M.	173.153, 173.163 (3) (6).	Oxy.	200 pounds.
Chlorate explosives, dry. See High explosives, wet.	Oxy. M.	173.153, 173.163.	Oxy.	100 pounds.
Chlorate wet.	Oxy. M.	173.153, 173.163.	Oxy.	100 pounds.
Chlorate powder. See High explosives.				
Chloride of phosphorus. See Phosphorus trichloride.				
Chloride of sulfur. See Sulfur chloride.				
Chlorine.	Nonf. C. G.	173.308, 173.304, 173.314, 173.315, 173.316, 173.317, 173.318, 173.319, 173.320, 173.321, 173.322, 173.323, 173.324, 173.325, 173.326, 173.327, 173.328, 173.329, 173.330, 173.331, 173.332, 173.333, 173.334, 173.335, 173.336, 173.337, 173.338, 173.339, 173.340, 173.341, 173.342, 173.343, 173.344, 173.345, 173.346, 173.347, 173.348, 173.349, 173.350, 173.351, 173.352, 173.353, 173.354, 173.355, 173.356, 173.357, 173.358, 173.359, 173.360, 173.361, 173.362, 173.363, 173.364, 173.365, 173.366, 173.367, 173.368, 173.369, 173.370, 173.371, 173.372, 173.373, 173.374, 173.375, 173.376, 173.377, 173.378, 173.379, 173.380, 173.381, 173.382, 173.383, 173.384, 173.385, 173.386, 173.387, 173.388, 173.389, 173.390, 173.391, 173.392, 173.393, 173.394, 173.395, 173.396, 173.397, 173.398, 173.399, 173.400, 173.401, 173.402, 173.403, 173.404, 173.405, 173.406, 173.407, 173.408, 173.409, 173.410, 173.411, 173.412, 173.413, 173.414, 173.415, 173.416, 173.417, 173.418, 173.419, 173.420, 173.421, 173.422, 173.423, 173.424, 173.425, 173.426, 173.427, 173.428, 173.429, 173.430, 173.431, 173.432, 173.433, 173.434, 173.435, 173.436, 173.437, 173.438, 173.439, 173.440, 173.441, 173.442, 173.443, 173.444, 173.445, 173.446, 173.447, 173.448, 173.449, 173.450, 173.451, 173.452, 173.453, 173.454, 173.455, 173.456, 173.457, 173.458, 173.459, 173.460, 173.461, 173.462, 173.463, 173.464, 173.465, 173.466, 173.467, 173.468, 173.469, 173.470, 173.471, 173.472, 173.473, 173.474, 173.475, 173.476, 173.477, 173.478, 173.479, 173.480, 173.481, 173.482, 173.483, 173.484, 173.485, 173.486, 173.487, 173.488, 173.489, 173.490, 173.491, 173.492, 173.493, 173.494, 173.495, 173.496, 173.497, 173.498, 173.499, 173.500, 173.501, 173.502, 173.503, 173.504, 173.505, 173.506, 173.507, 173.508, 173.509, 173.510, 173.511, 173.512, 173.513, 173.514, 173.515, 173.516, 173.517, 173.518, 173.519, 173.520, 173.521, 173.522, 173.523, 173.524, 173.525, 173.526, 173.527, 173.528, 173.529, 173.530, 173.531, 173.532, 173.533, 173.534, 173.535, 173.536, 173.537, 173.538, 173.539, 173.540, 173.541,		

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Containers, reused.	See § 173.28.			
Copper antiseptic, solid (emerald green, imperial green, king green, moss green, meadow green, milia green, parrot green, Vienna green).	Pois. B.	173.364, 173.367.	Pois.	200 pounds.
Copper arsenite, solid (Schlegel's green, cupric green, copper ortho-arsenite, viridian green).	Pois. B.	173.364, 173.365.	Pois.	200 pounds.
Copper cyanide.	See § 173.370.			
Cordant detonant (fuse).	Expl. C.	No exemption, 173.104.	Expl. C.	300 pounds.
Corrosive factory fluid. See Electrolyte (acid), or Alkaline corrosive factory fluid.				
Corrosive liquid, n.o.s.		173.244, 173.245, 173.245a, 173.246.		5 pints.
Corrosive solid, n.o.s.	Cor.	173.244, 173.245b.	Corrosive.	100 pounds.
Cotton, burnt. See burnt cotton.				
Cotton waste, oily with more than 6 percent of animal or vegetable oil.	F. S.	No exemption, 173.167.	F. S.	Not accepted.
Crotonaldehyde.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Crude nitrogen fertilizer solution.	Nonf. C. G.	173.306, 173.304, 173.314.	Nonf. G.	300 pounds.
Crude oil, petroleum.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Cumene hydroperoxide.	Oxy. M.	173.133(b), 173.224.	Oxy. per.	1 quart.
Cupriethylene-amine solution.	Cor.	173.244, 183.240.	Corrosive.	1 gallon.
Cyanide of calcium or cyanide of calcium mixture, solid.	Pois. B.	173.370 (c) and (d).	Pois.	200 pounds.
Cyanides of copper, zinc, lead, and silver.	See § 173.370.			
Cyanide or cyanide mixtures, dry.	Pois. B.	173.364, 183.370.	Pois.	200 pounds.
Cyanide of potassium, liquid.	Pois. B.	173.365, 173.352.	Pois.	35 pounds.
Cyanide of potassium, solid.	Pois. B.	173.365, 173.352.	Pois.	35 pounds.
Cyanide of sodium, liquid.	Pois. B.	173.370.	Pois.	200 pounds.
Cyanogen bromide.	Pois. B.	No exemption, 173.370.	Pois.	25 pounds.
Cyanogen chloride containing less than 0.9 percent water.	Pois. A.	No exemption, 173.326.	Pois. gas.	Not accepted.
Cyanogen gas.	Pois. A.	No exemption, 173.326.	Pois. gas.	Not accepted.
Cyclohexane.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Cyclohexanone peroxide not over 50 percent concentration.	Oxy. M.	173.153, 173.154.	Oxy. per.	25 pounds.
Cyclohexanone peroxide over 50 percent concentration but not exceeding 85 percent concentration.	Oxy. M.	No exemption, 173.157, 173.158.	Oxy. per.	25 pounds.
Cyclohexenyl trichlorosilane.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Cyclohexyl trichlorosilane.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Cyclopentane, methyl.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Cyclopentane.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Cyclopentane, methyl.	F. C. G.	173.306, 183.304.	F. G.	300 pounds.
Cyclotrimethyleneamine, dimer sized. See High explosives.				
Cyclotrimethyleneamine, trimer sized. See High explosives.				
Cylinders, empty.	See § 173.29.			
Delay electric igniters.	F. S.	No exemption, 173.296.	F. S.	25 pounds.
Denatured alcohol. See Alcohol, n.o.s.	Expl. C.	No exemption, 173.106.	Expl. C.	150 pounds.
Depth bomb. See Explosive bomb.				
Detonating fuse, class A explosives.	Expl. A.	No exemption, 173.69.	Expl. A.	Not accepted.
Detonating fuse, class B explosives.	Expl. A.	No exemption, 173.69.	Expl. A.	Not accepted.
Detonating fuses, class C explosives.	Expl. C.	No exemption, 173.113.	Expl. C.	150 pounds.
Detonating primers.	Expl. A.	No exemption, 173.68.	Expl. A.	Not accepted.
Diazodinitrophenol. See Initiating explosive.				
Dichloroethylene.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Dichlorodifluoromethane.	Nonf. C. G.	173.306, 173.304, 173.314, 173.315.	Nonf. G.	300 pounds.
Dichlorodifluoro-methane-dichloro-terfluoroethane mixture.	Nonf. C. G.	173.306, 173.304, 173.314, 173.315.	Nonf. G.	300 pounds.
Dichlorodifluoromethane-mono-chlorodifluoromethane mixture.	Nonf. C. G.	173.306, 173.304, 173.314, 173.315.	Nonf. G.	300 pounds.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Dichlorodifluoromethane-trichloro-difluoromethane-mono-chloro-difluoromethane mixture.	Nonf. C. G.	173.306, 173.304, 173.314, 173.315.	Nonf. G.	300 pounds.
Dichlorodifluoromethane-trichloro-trifluoroethane mixture.	Nonf. C. G.	173.306, 173.304, 173.314, 173.315.	Nonf. G.	300 pounds.
Dichlorodifluoromethane-mono-fluorodifluoromethane mixture.	Nonf. C. G.	173.306, 173.314, 173.315.	Nonf. G.	300 pounds.
Dichlorodifluoromethane and di-fluoroethane mixture (condensating mixture).	Nonf. C. G.	173.306, 173.304, 173.314, 173.315.	Nonf. G.	300 pounds.
Dichloroacetic acid, dry, containing more than 3% available chlorine.	Oxy. M.	173.153, 173.217.	Oxy.	100 pounds.
Dicumyl peroxide, solid.	Oxy. M.	173.153, 173.154.	Oxy. per.	25 pounds.
Dicumyl peroxide, 5% solution.	Oxy. M.	173.153(b), 173.224.	Oxy. per.	1 quart.
Dibutyl dichlorosilane.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Dibutyltin dihydride. See § 173.51(d).				
Dichloroethane. See lilluoro-trichloroethane.				
Difluoroethane.	F. C. G.	173.306, 173.304, 173.314, 173.315.	F. G.	300 pounds.
Difluoromono-chloroethane (1,1 di-fluoro-1-chloroethane).	F. C. G.	173.306, 173.304, 173.314, 173.315.	F. G.	300 pounds.
Difluorophosphoric acid, anhydrous.	Cor.	No exemption, 173.275.	Corrosive.	1 gallon.
Diisocetyl acid phosphite.	Oxy. M.	173.244, 173.246.	Oxy. per.	1 quart.
Diisopropylbenzene hydroperoxide.	Oxy. M.	173.133(b), 173.224.	Oxy. per.	1 quart.
Dimethylamine, anhydrous.	F. C. G.	173.306, 173.304, 173.314, 173.315.	F. G.	300 pounds.
Dimethylamine, aqueous solution.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Dimethyldichlorosilane.	Cor.	No exemption, 173.135.	Corrosive.	10 gallons.
Dimethyl ether.	F. L.	173.306, 173.304, 173.314, 173.315.	F. L.	300 pounds.
Dimethylhexane dihydroperoxide, dry.	Not accepted.			
Dimethylhexane dihydroperoxide, wet.	Oxy. M.	No exemption, 173.157.	Oxy. per.	300 pounds.
Dimethylhydrazine, unsymmetrical.	F. L.	No exemption, 173.145.	F. L.	5 pints.
Dimethyl sulfide.	Cor.	No exemption, 173.255.	Corrosive.	1 quart.
Dinitrobenzyl sulfide.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Dinitrobenzol, solid.	Pois. B.	173.364, 173.361.	Pois.	200 pounds.
Dinitrobenzol, liquid.	Pois. B.	173.364, 173.366.	Pois.	55 gallons.
Dinitrochlorobenzol, solid (dinitro-chlorobenzene, chlorodinitrobenzol).	Pois. B.	173.364, 173.365.	Pois.	200 pounds.
Dinitrophenol solutions.	Pois. B.	173.345, 173.362A.	Pois.	65 pounds.
Diphenyl dichlorosilane.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Diphenylmethane, gas, liquid, or solid.	Irr.	No exemption, 173.382.	Irritant.	75 pounds.
Diphenylchlorarsine, solid.	Irr.	No exemption, 173.382.	Irritant.	20 pounds.
Diphosgene. See Phosgene.				
DuPont gas, n.o.s.	See § 173.314 (c) Table Note 13, 173.315(a).			
DuPont gas, n.o.s.	Table Note 9.			
Distillate.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Dressing, leather.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Dry, paint, varnish, enamel, etc.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Dull, emulsions, liquid.	See § 173.55.			
Drugs, chemicals, medicines or cosmetics, n.o.s.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Drugs, chemicals, medicines or cosmetics, n.o.s.	F. S.	173.153, 173.154.	F. S.	100 pounds.
Drugs, chemicals, medicines or cosmetics, n.o.s.	Oxy. M.	173.153, 173.154.	Oxy.	100 pounds.
Drugs, chemicals, medicines or cosmetics, n.o.s.	Cor.	173.244, 173.245.	Corrosive.	1 quart.
Drugs, chemicals, medicines or cosmetics, n.o.s.	Pois. B.	173.315, 173.346.	Pois.	55 gallons.
Drugs, chemicals, medicines or cosmetics, n.o.s.	Pois. B.	173.361, 173.365.	Pois.	200 pounds.
Drugs, empty.	See § 173.29.			

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in outside container by rail express
Dummy cartridges.....	See § 173.55.			
Dusts, by-product, poisonous. <i>See</i> <i>Arsenic acid, high explosives</i>				
Electric blasting caps—more than 1,000.....	Expl. A.	No exemption, 173.66.	Expl. A.	Not accepted.
Electric blasting caps—1,000 or less.....	Expl. C.	No exemption, 173.103.	Expl. C.	See § 173.96.
Electric storage batteries, wet. <i>See</i> <i>Batteries, electric storage, wet.</i>	Expl. C.	No exemption, 173.108.	Expl. C.	150 pounds.
Electrolyte (acid), battery fluid.....	Cor.	173.244, 173.257.	Corrosive.	5 gallons.
Electrolyte (acid) or alkaline cor- rosive battery fluid packed with storage batteries.....	Cor.	No exemption, 173.258.	Corrosive.	2 gallons.
Electrolyte (acid) or alkaline cor- rosive battery fluid packed with storage batteries, and containing am- ply device or electronic equip- ment and actuating devices.....	Cor.	No exemption, 173.259.	Corrosive.	6 quarts.
Empty cartridge bags with black powder kniflers.....	Expl. C.	No exemption, 173.106.	Expl. C.	150 pounds.
Empty cartridge cases, primed.....	Expl. C.	No exemption, 173.107.	Expl. C.	150 pounds.
Enamel. <i>See</i> "Paint, enamel, lac- quer, stain, shellac, varnish, etc."				
<i>Engine, internal combustion</i>	See § 173.120.			
Engine starting fluid.....	F. C. G.	No exemption, 173.304.	F. G.	60 pounds.
Explosives, paint or grease, liquid.....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Etching acid liquid, n.o.s.....	Cor.	No exemption, 173.289.	Corrosive.	10 pounds.
Ethane.....	F. C. G.	173.306, 173.304.	F. G.	300 pounds.
Ether.....	F. L.	173.113, 173.115.	F. L.	10 gallons.
Ether, ethyl (anhydrous). <i>See</i> Ether. ethyl acetate.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyl alcohol. <i>See</i> Alcohol, n.o.s.				
Ethyl aldehyde. <i>See</i> Acetaldehyde.				
Ethyl chloride.....	F. L.	No exemption, 173.123.	F. L.	300 pounds in cylinders, 15 pounds in other con- tainers.
Ethyl chlorocarbonate. <i>See</i> Ethyl chloroformate.				
Ethyl chloroformate.....	Cor.	No exemption, 173.288.	Corrosive.	5 pints.
Ethyl chloroiodoacetate. <i>See</i> Corro- sive liquid, n.o.s.				
Ethyl dichlorarsine.....	Pols. A.	No exemption, 173.328.	Pols. gas.	Not accepted.
Ethyl dichlorosilane.....	F. L.	No exemption, 173.133.	F. L.	10 gallons.
Ethylene.....	F. C. G.	173.306, 173.304.	F. G.	300 pounds.
Ethylene dichloride.....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyleneimine, inhibited.....	F. L.	No exemption, 173.139.	F. L.	5 pints.
Ethylene oxide.....	F. L.	No exemption, 173.124.	F. L.	300 pounds in cylinders, 15 pounds in other containers.
Ethyl formate.....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyl mercaptan.....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyl methyl ether.....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyl methyl ketone.....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyl nitrate (nitric ether).....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyl nitrate (nitrous ether).....	F. L.	173.118, 173.119.	F. L.	10 gallons.
Ethyl phenyl dichlorosilane.....	Cor.	No exemption, 173.286.	Corrosive.	10 gallons.
<i>Ethyl phosphonothioic dichloride, n.o.s.</i>				
<i>Ethyl phosphorus dichloride, anhy- drous. <i>See</i> Corrosive liquid, n.o.s.</i>				
<i>Ethyl phosphonothioic dichloride, anhy- drous liquid, n.o.s.</i>				
Ethyl trichlorosilane.....	F. L.	No exemption, 173.135.	F. L.	10 gallons.
Etioic acid.....	Etio. ac.	173.386, 173.387.	Etioic.	4 liters.
Explosive auto alarms.....	Expl. C.	No exemption, 173.111.	Expl. C.	150 pounds.
Explosive bomb.....	Expl. A.	No exemption, 173.56.	Expl. A.	Not accepted.
Explosive cable cutters.....	Expl. C.	No exemption, 173.102.	Expl. C.	150 pounds.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in outside container by rail express
<i>Explosives, class A.</i>	See § 173.53.			
<i>Explosives, class B.</i>	See § 173.86.			
<i>Explosives, class C.</i>	See § 173.100.			
<i>Explosive compound.</i>	Expl. A or B.	No exemption, 173.53, 173.61 to 173.93.	Exp. A or B.....	10 pounds.
<i>Explosive mine, device, class B.</i>	Expl. B.	No exemption, 173.56.	Expl. A.....	Not accepted.
<i>Explosive power device, class C.</i>	Expl. B.	No exemption, 173.94.	Expl. B.....	150 pounds.
<i>Explosive propellant.</i>	Expl. C.	No exemption, 173.102.	Expl. C.....	150 pounds.
<i>Explosive release device.</i>	Expl. A.	No exemption, 173.56.	Expl. A.....	Not accepted.
<i>Explosive rivets.</i>	Expl. C.	No exemption, 173.102.	Expl. C.....	150 pounds.
<i>Explosive samples for laboratory examination.</i>	Expl. C.	No exemption, 173.100(q).	Expl. C.....	150 pounds.
<i>Explosive torpede.</i>	Expl. A.	No exemption, 173.56.	Expl. A.....	Not accepted.
<i>Fabrics or fibers with animal or vegetable oil.</i> See <i>Fibers or fabrics with animal or vegetable oil.</i>	F. L.	173.118, 173.119.	F. L.....	10 gallons.
<i>Fabric scraps, wet.</i>	Pois. B.	173.364, 173.365.	Pois.....	200 pounds.
<i>Ferrous arsenate, solid.</i>	Pois. B.	173.364, 173.365.	Pois.....	200 pounds.
<i>Ferrous arsenite, solid.</i>	Pois. B.	173.364, 173.365.	Pois.....	200 pounds.
<i>Fertilizer ammoniating solution containing free ammonia.</i>	Nonf. C. G....	173.306, 173.304, 173.314.	Nonf. G.....	300 pounds.
<i>Fertilizer, tankage.</i> See <i>Garbage, tankage.</i>				
<i>Fiber, burnt.</i>	F. S.	No exemption, 173.169.	F. S.....	Not accepted.
<i>Fibers or fabrics, with animal or vegetable oil.</i>	F. S.	No exemption, 173.170.	F. S.....	Not accepted.
<i>Fire alarm picture and toy pieces of fire alarm picture film.</i> See <i>Motion-picture film sound.</i>				
<i>Firecracker.</i> See <i>Common fireworks</i> or <i>Special fireworks.</i>				
<i>Firecracker salute.</i> See <i>Common fireworks</i> or <i>Special fireworks.</i>				
<i>Fire extinguisher charges.</i>	Cor.	173.261.	Corrosive.....	1 gallon.
<i>Fire extinguisher charges containing not to exceed 50 grains of potassium perchlorate.</i>	See § 173.88(f) Note 1.			
<i>Fire extinguishers.</i>	Nonf. C. G....	173.306.	Nonf. G.....	300 pounds.
<i>Fireworks, common.</i>	Expl. C.	No exemption, 173.100(r), 173.106.	Expl. C.....	200 pounds.
<i>Fireworks, exhibition display pieces.</i>				
<i>Fireworks, special.</i>	Expl. B.	No exemption, 173.88(d), 173.91.	Expl. B.....	200 pounds.
<i>Fish meal.</i> See <i>Fish scrap or fish meal.</i>				
<i>Fish scrap or fish meal containing less than 6 percent or more than 12 percent moisture.</i>	F. S.	No exemption, 173.171.	F. S.....	Not accepted.
<i>Fissile radioactive materials.</i>	R. A. M.	173.393, 173.396.	Radioactive....	See § 173.396.
<i>Flame retardant compound, liquid.</i>	Cor.	173.244, 173.291.	Corrosive.....	10 gallons.
<i>Flammable liquids, n.o.s.</i>	F. L.	173.118, 173.119.	F. L.....	10 pints.
<i>Flammable solids, n.o.s.</i>	F. S.	173.153, 173.154.	F. S.....	5 gallons.
<i>Flash, pyrotechnic devices.</i>				
<i>Flash, acetylene.</i> See <i>Special fireworks.</i>				
<i>Flash cartridges.</i> See <i>Special fireworks</i> and <i>Low explosives.</i>				
<i>Flash crackers.</i> See <i>Common fireworks</i> or <i>Special fireworks.</i>				
<i>Flash powder.</i> See <i>Special fireworks</i> and <i>Low explosives.</i>				
<i>Flash sheets.</i> See <i>Special fireworks</i> and <i>Low explosives.</i>				
<i>Flat-bottomed linear shaped charges, flat-bottomed.</i>	Expl. C.	No exemption, 173.104.	Expl. C.....	300 pounds.
<i>Flue dust, poisonous.</i>	Pois. B.	173.364, 173.368.	Pois.....	200 pounds.
<i>Fluorine.</i>	F. C. G.	173.306, 173.302.	F. C. G.....	6 pounds.
<i>Fluosilonic acid.</i>	Cor.	No exemption, 173.274.	Corrosive.....	10 pints.
<i>Formic acid.</i>	Cor.	173.244, 173.245, 173.289.	Corrosive.....	5 gallons.
<i>Formic acid, solution.</i>	Cor.	173.244, 173.245, 173.289.	Corrosive.....	5 gallons.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in outside container by rail express
<i>Fulminate of mercury, dry.</i>	Forbidden explosive.			Forbidden explosive.
<i>Fulminate of mercury, wet. See Initiating explosive.</i>	See § 173.152 (a) Note 1.			
<i>*Fumigant.</i>				
<i>*Furniture polish. See *Polishes, metal, stove, furniture, and wood, liquid.</i>				
<i>*Furniture or wood stains, liquid. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.</i>				
<i>Fuse initiators.</i>	Expl. C	No exemption, 173.106.	Expl. C.	150 pounds.
<i>Fuse, instantaneous. See Instantaneous.</i>				
<i>Fuse, safety.</i>	Expl. C	No exemption, 173.106.	Expl. C.	150 pounds.
<i>Fuse, mild detonating, metal clad.</i>				
<i>Fuse, mild detonating fuse, metal clad.</i>				
<i>Fuse, safety.</i>				
<i>Fuses (railway and highway).</i>				
<i>Fuses, combination.</i>	F. S.	No exemption, 173.154.	F. S.	200 pounds.
<i>Fuses, detonating, class A explosives.</i>	Expl. C	No exemption, 173.105.	Expl. C	150 pounds.
<i>Fuses, detonating, class A explosives, initiating.</i>	Expl. A	No exemption, 173.105.	Expl. A	Not accepted.
<i>Fuses, detonating, class C explosives.</i>	Expl. C	No exemption, 173.105.	Expl. C	150 pounds.
<i>Fuses, percussion.</i>	Expl. C	No exemption, 173.113.	Expl. C	150 pounds.
<i>Fuses, time.</i>	Expl. C	No exemption, 173.105.	Expl. C	150 pounds.
<i>Fuses, tracer.</i>	Expl. C	No exemption, 173.105.	Expl. C	150 pounds.
<i>Gas cylinders containing less than 8 percent of moisture.</i>	F. S.	No exemption, 173.20.	F. S.	Not accepted.
<i>*Gas cylinders, empty.</i>				
<i>*Gas drums, hydrocarbon.</i>	F. L.	173.118, 173.119.	F. L.	10 gallons.
<i>Gas identification sets.</i>	Pois. A and irr.	No exemption, 173.331.	Pois. A and irr.	See § 173.331.
<i>Gas mine. See Explosive mine.</i>				
<i>Gasoline.</i>	F. L.	173.118, 173.119.	F. L.	10 gallons.
<i>Gelatin dynamite. See High explosives.</i>				
<i>*Gun paint. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.</i>				
<i>Grenades, empty, primed.</i>	Expl. C	No exemption, 173.107.	Expl. C	150 pounds.
<i>Grenades, hand. See Hand grenades.</i>				
<i>Grenades, hand or rifle, explosive, with gas, smoke or incendiary material. See Hand or rifle grenades.</i>				
<i>Grenades, hand or rifle, with gas, smoke or incendiary material but without bursting charges.</i>				
<i>Grenades, police. See Police grenades.</i>				
<i>Grenades, rifle. See Rifle grenades.</i>				
<i>Grenades, tear gas. See Tear gas grenades.</i>				
<i>Guandino nitrate.</i>	Oxy. M.	173.153, 173.182.	Oxy.	100 pounds.
<i>Guanyl nitroamino guanidylidene hydrazine. See Initiating explosive.</i>				
<i>Guanyl nitroamino guanidylidene. See Initiating explosive.</i>				
<i>Guided missiles, with warheads. See Rocket ammunition with explosive or spoked projectile.</i>				
<i>Guided missiles without warheads. See Rocket motors, class A explosives or Rocket motors, class B explosives.</i>				
<i>Gun cotton. See High explosives.</i>				
<i>Hamium metal, dry, chemically produced, finer than 20 mesh particle size.</i>	F. S.	No exemption, 173.214.	F. S.	75 pounds.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Igniter cord.....	Expl. C.....	No exemption, 173.10(s).....	Expl. C.....	150 pounds.
Igniter fuse-metal clad.....	Expl. C.....	No exemption, 173.10.....	Expl. C.....	150 pounds.
Igniters, jet thrust (jato), class A.....	Expl. A.....	No exemption, 173.10.....	Expl. A.....	Not accepted.
Igniters, jet thrust (jato), class B.....	Expl. B.....	No exemption, 173.92.....	Expl. B.....	550 pounds.
Igniters, rocket motor, class A.....	Expl. A.....	No exemption, 173.73.....	Expl. A.....	Not accepted.
Igniters, rocket motor, class B.....	Expl. B.....	No exemption, 173.92.....	Expl. B.....	550 pounds.
Illuminating projectiles fuzed or not fuzed, with exploding charge. See Special fireworks.				
Inflammable liquids, n.o.s. See Flammable liquids, n.o.s.				
Initiating explosive.....	Expl. A.....	No exemption, 173.70 to 173.78 incl.	Expl. A.....	Not accepted.
<i>Diiododinitrophenol</i>		No exemption, 173.70.		
<i>Fulminate of mercury</i>		No exemption, 173.71.		
<i>Guanyl nitrosamine guanylidene hydrazine</i>		No exemption, 173.72.		
<i>Izad oxide, defrinded type only</i>		No exemption, 173.73.		
<i>Izad mononitrosinate</i>		No exemption, 173.70.		
<i>Lead staphnate (lead trinitroresorcinol)</i>		No exemption, 173.74.		
<i>Nitro mannite</i>		No exemption, 173.75.		
<i>Nitroguanidine</i>		No exemption, 173.76.		
<i>Picric acid</i>		No exemption, 173.77.		
<i>Tetraiodo guanyl nitrosamine</i>		No exemption, 173.78.		
<i>Ink</i>	F. L.....	173.118, 173.144.	F. L.....	10 gallons.
<i>Insecticide, dry</i>	Pols. B.....	173.364, 173.365.	Pols. B.....	200 gallons.
<i>Insecticide, liquid</i>	Pols. B.....	173.345, 173.365.	Pols. B.....	55 gallons.
<i>Insecticide liquored gas</i>	Nonf. C.G.....	173.304, 173.306.	Nonf. G.....	300 pounds.
<i>Insecticide, liquid (germin exterminator)</i>	F. L.....	173.118, 173.119.	F. L.....	10 gallons.
<i>Instantaneous fuse</i>	Expl. C.....	No exemption, 173.100 (m).....	Expl. C.....	150 pounds.
<i>Indane monochloride</i>	F. S.....	No exemption, 173.28.	Corrosive.....	1 quart.
<i>Iron sponge, not properly oxidized</i>	F. S.....	No exemption, 173.14.	F. S.....	Not accepted.
<i>Iron sponge, spent</i>	F. S.....	No exemption, 173.14.	F. S.....	Not accepted.
<i>Irritating agent, N.O.S.</i>	Ir.....	No exemption, 173.32.	Irritant.....	75 pounds.
<i>Isobutane or Liquefied petroleum gas. See Liquefied petroleum gas.</i>				
<i>Isobutylene or Liquefied petroleum gas. See Liquefied petroleum gas.</i>				
<i>Isocane</i>	F. L.....	173.118, 173.119.	F. L.....	10 gallons.
<i>Isocentane</i>	F. L.....	173.118, 173.119.	F. L.....	10 gallons.
<i>Isopentane</i>	F. L.....	173.118, 173.119.	F. L.....	10 gallons.
<i>Isopropyl acetate</i>	F. L.....	173.118, 173.119.	F. L.....	10 gallons.
<i>Isopropyl mercaptan</i>	F. L.....	173.118, 173.119.	F. L.....	10 gallons.
<i>Isopropyl mercaptan, stabilized</i>	Cor.....	No exemption, 173.10.	Corrosive.....	10 gallons.
<i>Isopropyl percarbonate, unstabilized</i>	F. S.....	No exemption, 173.28.	F. S.....	Not accepted.
<i>Jet thrust igniters. See Igniters, jet thrust.</i>				
<i>Jet thrust unit (jato) class A explosives.</i>	Expl. A.....	No exemption, 173.73.....	Expl. A.....	Not accepted.
<i>Jet thrust unit (jato) class B explosives.</i>	Expl. B.....	No exemption, 173.92.....	Expl. B.....	550 pounds.
<i>Explosives.</i>				
<i>Lacquer base, enamel, lacquer, stain, varnish, etc.</i>				
<i>Lacquer base, liquid. See Enamel, lacquer, stain, shellac, varnish, etc.</i>				
<i>Lacquer base or lacquer chips, dry.</i>	F. S.*.....	173.153, 173.175.	F. S.....	100 pounds.
<i>Lacquer, base of lacquer chips, plastic (wet with alcohol or pigment)</i>	F. L.....	173.118, 173.127.	F. L.....	25 pounds.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
*Lacquer removing, reducing and thinning compounds. See *Compounds, lacquer, paint, or varnish removing, reducing, or thinning, liquid, peroxide.				
Lead acetate, solid.	Oxy. M.	173 153(b), 173 157, 173 158.	Orig. per.	25 pounds.
Lead arsenate, solid.	Pois. B.	173 364, 173 367.	Pois.	24 pounds.
Lead azide. See Initiating explosive.	Pois. B.	173 364, 173 365.	Pois.	200 pounds.
Lead cyanide.	See § 173.370.			
Lead mononitrosocarbonate. See Initiating explosive.				
Lead nitrate.	Oxy. M.	173 153, 173 182.	Oxy.	100 pounds.
Lead staphnate (lead trinitrostaphnate). See Initiating explosive.				
*Leather bleach.	F. L.	173 118, 173 119.	F. L.	10 gallons.
*Leather dressing.	F. L.	173 118, 173 119.	F. L.	10 gallons.
Lewisite.	Pois. A.	No exemption, 173 328.	Pois. gas.	Not accepted.
Lighter fluid. See Cigar and cigarette lighter fluid.				
*Liquefied carbon dioxide. See Carbon dioxide.				
*Liquefied carbon dioxide gas (mineral). See Carbon dioxide gas (mineral).				
*Liquefied carbon dioxide gas (mineral) (mining device).				
Liquefied hydrocarbon gas.	F. C. G.	173 306, 173 304, 173 314.	F. G.	300 pounds.
Liquefied nonflammable gases charged with nitrogen, carbon dioxide, or air.	Nonf. C. G.	173 306, 173 304.	Nonf. G.	300 pounds.
*Liquefied petroleum gas.	F. C. G.	173 306, 173 304, 173 314, 173 315.	F. G.	200 pounds.
Liquids other than those classified as flammable, corrosive, or poisonous charged with nitrogen, carbon dioxide or air. See Compressed gases.				
Lithium aluminum hydride, ethereal.	F. S.	No exemption, 173 206.	F. S.	25 pounds.
Lithium aluminum hydride, ethereal.	F. L.	No exemption, 173 137.	F. L.	1 quart.
Lithium amide, powdered.	F. S.	173 153, 173 168.	F. S.	100 pounds.
Lithium ferro silico.	F. S.	No exemption, 173 206.	F. S.	25 pounds.
Lithium hydride.	F. S.	No exemption, 173 206.	F. S.	25 pounds.
Lithium hydride in solid forms.	F. S.	No exemption, 173 206.	F. S.	100 pounds.
Lithium hypochloride compounds, dry, containing more than 39 percent available chlorine.	Oxy. M.	173 153, 173 217.	Oxy.	100 pounds.
Lithium metal.	F. S.	No exemption, 173 206.	F. S.	25 pounds.
Lithium metal in cartridges.	See § 173.206.			
Lithium peroxide.	Oxy. M.	173 153(c), 173 154.	Oxy.	100 pounds.
Lithium silico.	F. S.	No exemption, 173 206.	F. S.	25 pounds.
London purple solid.	Pois. B.	173 364, 173 365.	Pois.	200 pounds.
Low explosives.	Expl. A.	No exemption, 173 60.	Expl. A.	Not accepted.
Low blasting explosives, See Low explosives.				
Machines or apparatus.	See §§ 173.130, 173 306.			
Magnesium arsenate, solid.	Pois. B.	173 364, 173 367.	Pois.	200 pounds.
Magnesium dross.	F. S.	173 153, 173 220.	F. S.	100 pounds.
Magnesium, metallic, powdered, pellets, turnings, or ribbon.	F. S.	173 153, 173 220.	F. S.	100 pounds.
Magnesium nitrate.	Oxy. M.	173 153, 173 182.	Oxy.	100 pounds.
Magnesium perchlorate.	Oxy. M.	173 153, 173 184.	Oxy.	100 pounds.
Magnesium peroxide, solid.	Oxy. M.	173 153, 173 184.	Oxy.	100 pounds.
Magnesium scrap (corners, clippings, shavings, sheets, turnings or scalings).	F. S.	173 153, 173 220.	F. S.	100 pounds.
Matches, block. See Matches, strike-anywhere.				
Matches, book, card, or strike-on-box, with other articles.	See § 173.176 (g).			
Matches, book, card, or strike-on-box.	See § 173.176 (g).			
Matches, strike-anywhere.	F. S.	No exemption, 173 176.	F. S.	60 pounds.

[illegible]

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in outside container by rail express
Methyl formate.	F. L.	173.119, 173.119.	F. L.	10 gallons.
Methyl hydrate. <i>See</i> Alcohol or Methanol.				
Methylhydrazine.	F. L.	No exemption, 173.145.	F. L.	5 pints.
Methyl iso-propenyl ketone, inhibited.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Methyl magnesium bromide in ethyl ether in concentrations not over 40 percent.	F. L.	No exemption, 173.140.	F. L.	6 quarts.
Methyl mercaptan.	F. C. G.	173.306, 173.304, 173.314, 173.315.	F. G.	300 pounds.
Methyl methacrylate monomer.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Methyl parathion, liquid.	Pois. B.	No exemption, 173.358.	Pois.	1 quart.
Methyl parathion mixture, dry.	Pois. B.	173.37.	Pois.	200 pounds.
Methyl parathion mixture, liquid.	Pois. B.	173.359.	Pois.	1 quart.
Methyl phosphonous dichloride, n.o.s.				
Methyl phosphonous dichloride. <i>See</i> Corrosive liquid, n.o.s.				
Methyl parathion, inhibited.	F. L.	No exemption, 173.135.	F. L.	10 gallons.
Methyl vinyl ketone, inhibited.	F. L.	173.147.	F. L.	10 gallons.
Metal detaching (use, metal clad mine releasing equipment).	Expl. C.	No exemption, 173.104.	Expl. C.	300 pounds.
Mines, empty.	See § 173.396			
Mines, explosives, with gas material.	(a) (2) and (a) (3) and 176.703(d).			
Mine explosive mixture.	See § 173.55.			
Mixed acid. <i>See</i> Nitrating (mixed acid).				
Mixtures of hydrofluoric and sulfuric acids. <i>See</i> Hydrofluoric and sulfuric acids, mixtures.				
Mixtures or solutions of liquefied non-flammable gases and liquids other than those classified as flammable, corrosive, or poisonous charged with nitrogen, carbon dioxide, or air. <i>See</i> Compressed gases, n.o.s.				
Monochloroacetic acid, n.o.s.	Nonfl. C. G.	173.306, 173.304, 173.314.	Nonfl. G.	300 pounds.
Monochloroacetic acid, stabilized.	Not accepted.	No exemption, 173.384.	Irritant.	Not accepted.
Monochloroacetic acid (unstabilized).	Cor.	173.244, 173.304.	Corrosive.	1 quart.
Monochloroacetic acid, liquid.	Nonfl. C. G.	173.306, 173.304, 173.314, 173.315.	Nonfl. G.	300 pounds.
Monochlorodifluoromethane.				
Monochloroethylene. <i>See</i> Vinyl chloride.				
Monochlorotrifluoroethane.	Nonfl. C. G.	173.306, 173.304.	Nonfl. G.	300 pounds.
Monochlorotetrafluoroethane.	Nonfl. C. G.	173.306, 173.304, 173.314.	Nonfl. G.	300 pounds.
Monochlorotrifluoromethane.	Nonfl. C. G.	173.306, 173.304.	Nonfl. G.	300 pounds.
Monochloroethylene.	F. L.	173.118, 173.148.	F. L.	10 gallons.
Monofluorophosphoric acid, anhydrous.	Cor.	No exemption, 173.275.	Corrosive.	1 gallon.
Monomethylamine, anhydrous.	F. C. G.	173.306, 173.304, 173.314, 173.315.	F. G.	300 pounds.
Monomethylamine, aqueous solution.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Mortar stain, liquid.	F. L.	173.118, 173.128.	F. L.	55 gallons.
Motion-picture film, nitrocellulose base, including mixed shipments with nonflammable film.	F. S.	No exemption, 173.177.	F. S.	200 pounds.
Motion-picture film, old and worn-out (nitrocellulose).	F. S.	No exemption, 173.175.	F. S.	200 pounds.
Motion-picture film, old and worn-out (slow-burning).	See § 173.181 (a) (1).			
Motion-picture film, old and worn-out (slow-burning).	See § 173.181 (a) (1).			
Motion-picture film (processed, positive or negative slow-burning).	F. S.	No exemption, 173.177.	F. S.	200 pounds.
Motion-picture film scrap (nitrocellulose), samples of.	See § 173.181 (a) (1).			
Motion-picture film scrap (nitrocellulose), samples of.	F. S.	No exemption, 173.196.	F. S.	25 pounds.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in outside container by rail express
Motion-picture film scrap (nitrocellulose), other than sample.	F. S.	No exemption, 173.181.	F. S.	Not accepted.
Motion-picture film scrap (slow-burning).	See § 173.181 (a)(2).			
Motion-picture film, toy (nitrocellulose).	F. S.	No exemption, 173.179.	F. S.	200 pounds.
Motion-picture film, toy (slow-burning).	See § 173.181 (a)(1).			
Motion-picture film, toy pieces (nitrocellulose).	See § 173.181 (a)(3).			
Motion-picture film, unexposed (nitrocellulose).	F. S.	173.180.	F. S.	250 pounds.
Motion-picture film, unexposed (slow-burning).	See § 173.181 (a)(1).			
Motorcycles.	See § 173.120.			
Motor fuel antiknock compound.	Pois. B.	No exemption, 173.354.	Pois.	55 gallons.
Motor fuel, n.o.s.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Motors, internal combustion.	See § 173.120.			
Muriatic acid. See Hydrochloric acid.				
Mustard gas.	Pois. A.	No exemption, 173.328.	Pois. gas.	Not accepted.
Naphtalene.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Naphtalene distillate.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Naphtalene sulfonate. See Petroleum sulfonate.				
Natural gasoline.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Neohexane.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Neoprene.	Nonf. C. G.	173.306, 173.307.	Nonf. G.	300 pounds.
New explosives or explosive devices.	See §§ 173.51(q), 173.502(a).			
Nickel carbonyl.	F. L.	No exemption, 173.126.	F. L.	Not accepted.
Nickel catalyst, finely divided, active or spent.	F. S.	No exemption, 173.453.	F. S.	100 pounds.
Nickel cyanide, solid.	Pois. B.	173.370.	Pois.	200 pounds.
Nickel cyanide, liquid.	Pois. B.	173.345, 173.346.	Pois.	55 gallons.
Nicotine liquid.	Pois. B.	173.345, 173.346.	Pois.	55 gallons.
Nicotine salt, solid.	Pois. B.	173.345, 173.346.	Pois.	200 pounds.
Nicotine sulfate, liquid.	Pois. B.	173.345, 173.346.	Pois.	55 gallons.
Nicotine sulfate, solid.	Pois. B.	173.345, 173.346.	Pois.	200 pounds.
Nicotine tartrate.	Pois. B.	173.345, 173.346.	Pois.	200 pounds.
Nitrate of aluminum. See Aluminum nitrate.				
Nitrate of ammonia. See Ammonium nitrate.				
Nitrate of ammonia, explosives. See High explosives.				
Nitrate of ammonia fertilizer. See Ammonium nitrate fertilizer, containing 50 percent or more ammonium nitrate.				
Nitrate of barium. See Barium nitrate.				
Nitrate of lead. See Lead nitrate.				
Nitrate of potash. See Potassium nitrate.				
Nitrate of soda. See Sodium nitrate.				
Nitrate of soda and potash.				
Nitrate of soda, bags, empty, unwashed. See Bags, nitrate of soda, empty and unwashed.				
Nitrate of strontium. See Strontium nitrate.				
Nitriding (mixed) acid.	Oxy. M.	173.153, 173.182.	Oxy.	100 pounds.
Nitric acid.	Cor.	No exemption, 173.267.	Corrosive.	2½ pints.
Nitric ether. See Ethyl nitrate.				
Nitric oxide.	Pois. A.	No exemption, 173.237.	Pois. gas.	Not accepted.
Nitrate of soda. See Sodium nitrate.				
Nitrobenzol, liquid (oil of mirbane).	Pois. B.	173.345, 173.346.	Pois.	55 gallons.
Nitro carbo nitrate.	Oxy. M.	173.153, 173.182.	Oxy.	100 pounds.
Nitrocellulose, colloided, granular, flake or block, wet with alcohol or solvent. See Wet nitrocellulose colloided, granular or flake—20 percent alcohol or solvent, or block—25 percent alcohol or solvent.				
Nitrocellulose, colloided, granular or flake, wet with 80 percent water. See Wet nitrocellulose colloided, granular or flake—20 percent water.				
Nitrocellulose (collodion cotton), wet with water. See Wet nitrocellulose—20 percent water.				
Nitrocellulose (collodion cotton), wet with alcohol or solvent. See Wet nitrocellulose—20 percent alcohol or solvent.				
Nitrocellulose, dry. See High explosives.				
Nitrocellulose flakes, wet with alcohol or solvent. See Wet nitrocellulose flakes—20 percent alcohol or solvent.				
Nitrochlorobenzene, ortho, liquid.	Pois. B.	173.345, 173.346.	Pois.	55 gallons.
Nitrochlorobenzene, meta or para, solid.	Pois. B.	173.304, 173.314.	Pois.	200 pounds.
Nitrogen.	Nonf. C. G.	173.306, 173.307, 173.314.	Nonf. G.	300 pounds.
Nitrogen dioxide, liquid.	Pois. A.	No exemption, 173.336.	Pois. gas.	Not accepted.
Nitrogen fertilizer solution.	Nonf. C. G.	173.306, 173.304, 173.314.	Nonf. G.	300 pounds.
Nitrogen peroxide, liquid.	Pois. A.	No exemption, 173.336.	Pois. gas.	Not accepted.
Nitrogen, pressure liquid.	Nonf. C. G.	No exemption, 173.304.	Nonf. G.	300 pounds.
Nitrogen tetroxide-nitric oxide mixtures containing up to 33.2 percent weight nitric oxide.	Pois. A.	No exemption, 173.336.	Pois. gas.	Not accepted.
Nitroglycerin, liquid.	See § 173.51 (d).			
Nitroglycerin liquid, denatured. See High Explosive, liquid.				
Nitroglycerin, spirits of. See Spirits of nitroglycerin.				
Nitrohydrochloric acid.	Cor.	No exemption, 173.274.	Corrosive.	5 pints.
Nitrohydrochloric acid, diluted.	Cor.	No exemption, 173.274.	Corrosive.	5 pints.
Nitro manite. See Initiating explosive.				
Nitroquandine, dry. See High explosives.				
Nitroquandine, wet with water. See Wet nitroquandine—20 percent water.				
Nitroquandine. See Initiating explosives.				
Nitrostarach, dry. See High explosives.				
Nitrostarach, wet with alcohol or solvent. See Wet nitrostarach—30 percent alcohol or solvent.				
Nitrostarach, wet with water. See Wet nitrostarach—20 percent water.				
Nitrostarach. See High explosives.				
Nitrostarach. See Compressed gases, n.o.s.				
Nonliquefied hydrocarbon gas.	F. C. G.	173.306, 173.307.	F. C.	300 pounds.
Novel trichlorosilane.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Octadecyltrichlorosilane.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Octyl trichlorosilane.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Oil, degraded as oil, n.o.s., petroleum oil or petroleum oil, n.o.s.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Oil of mirbane. See Nitrobenzol, liquid.				

[illegible]

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Potassium perchlorate.	Oxy. M.	173.153, 173.219.	Oxy.	100 pounds.
Potassium permanganate. <i>See</i> Potassium permanganate of potash.				
Potassium peroxide.	Oxy. M.	No exemption, 173.154.	Oxy.	100 pounds.
Potassium sulfide.	F. S.	173.153, 173.207.	F. S.	300 pounds.
Potato spray (<i>arsenical</i>), liquid. <i>See</i> *Insecticide, liquid.				
*Insecticide, liquid.				
<i>Pressurized products. See</i> Compressed gases, n.o.s.				
<i>Primers. See</i> Cannon, combination.				
Primer, small-arm primers.				
Primer, detonating. <i>See</i> Detonating primers.				
Propellants, explosive. <i>See</i> Explosive projectile.				
Propellants, gas, nonexplosive. <i>See</i> Chemical Ammunition, class A, B, or C.				
Propellants, gas, smoke, or incendiary, with booster or booster with or without detonating fuse. <i>See</i> Explosive projectile.				
Propellants, illuminating, incendiary or incendiary with exploding charge but without bursting charge. <i>See</i> Special fireworks.				
Propellants, sand-loaded, empty, or solid. <i>See</i> Liquefied petroleum gas.				
Propane or Liquefied petroleum gas. <i>See</i> Liquefied petroleum gas.				
Propellant explosives, class A.	Expl. A.	No exemption, 173.64(d).	Expl. A.	See § 173.86.
Propellant explosives (liquid), class B.	Expl. B.	No exemption, 173.93.	Expl. B.	10 pounds.
Propellant explosives (solid), class B.	Expl. B.	No exemption, 173.93.	Expl. B.	10 pounds.
Propellant explosives in water un- stable, condemned or deteriorated (smokeless powder for cannon or small arms).	Expl. B.	No exemption, 173.93.	Expl. B.	Not accepted.
Propellant explosives (solid), class B, and small-arm primers. <i>See</i> Pro- pellant explosives, class B.				
Propylene imine, inhibited.	F. L.	No exemption, 173.139.	F. L.	5 minis.
Propylene oxide.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Propyl alcohol. <i>See</i> Alcohol, n.o.s.				
Propyl acetate.	F. L.	No exemption, 173.141.	F. L.	10 gallons.
Propyl isobutyl ether.	Cor.	No exemption, 173.280.	Corrosive.	10 gallons.
Propylene or Liquefied petroleum gas. <i>See</i> Liquefied petroleum gas.				
Prussic acid. <i>See</i> Hydrocyanic acid.				
Pyridine.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Pyroforic liquids, n.o.s.	F. L.	No exemption, 173.134.	F. L.	70 minis.
Pyro sulfuric chloride.	Cor.	173.244, 173.247.	Corrosive.	1 quart.
Pyroxylin cement. <i>See</i> Cement.				
Pyroxylin.				
Pyroxylin plastic scrap.	F. S.	No exemption, 173.193.	F. S.	See § 173.196.
Pyroxylin plastics, rods, sheets, rolls, tubes.	F. S.	173.196.	F. S.	350 pounds.
Pyroxylin solution.	F. L.	173.118, 173.119.	F. L.	10 gallons.
Pyroxylin solvent, n.o.s.	F. L.	173.118, 173.119.	F. L.	10 gallons.
<i>Radios. current: supply drier with alternating acids or battery fluid.</i>				
Radioactive devices.	R.A.M.	173.301(b).	None	See § 173.301.
Radioactive materials, low specific activity.	R.A.M.	173.302, 173.303.	Radioactive.	See § 173.302.
Radioactive materials, n.o.s.	R.A.M.	173.303, 173.305.	Radioactive.	See § 173.303.
Radioactive materials, special form.	R.A.M.	173.303, 173.304.	Radioactive.	See § 173.303.
Radioactive materials, small quan- tity.	R.A.M.	173.301(a).	None	See § 173.301.
	F. S.	No exemption, 173.199.	F. S.	Not accepted.

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in outside container by rail express
Rags, wet.	F. S.	No exemption, 173.200.	F. S.	Not accepted.
Railway torpedoes.	Expl. B.	No exemption, 173.91.	Expl. B.	200 pounds.
Reducing compounds, paint, var- nishes, lacquer, etc. See Com- monwealth lacquer, paint, or var- nish, etc. removing, reducing or thinning liquid.	See §§ 173.314 (c) table Note 13, 173.315(a) table Note 9.			
Refrigerant gas, n.o.s.	See §§ 173.130, 173.306.			
Refrigerating machines.	F. L.	173.118, 173.119	F. L.	35 gallons.
Removing compounds, paint, var- nishes, lacquer, etc. See Com- monwealth lacquer, paint, or var- nish, etc. removing, reducing or thinning liquid.	See §§ 173.314 (c) table Note 13, 173.315(a) table Note 9.			
Resin solution (resin compound, liquid).	F. L.	173.118, 173.119	F. L.	35 gallons.
Resinate of cobalt, precipitated. See Cobalt resinate, precipitated.				
Rifle grenades.	Expl. A.	No exemption, 173.36.	Expl. A.	Not accepted.
Rocket ammunition with empty projectiles, class B, or Black powder. Rocket shells, or electric primers or electric squibs.	F. L.	173.118, 173.131	F. L.	10 gallons.
Rocket ammunition with empty projectiles.	Expl. B.	No exemption, 173.90.	Expl. B.	Not accepted.
Rocket ammunition with explosive projectiles.	Expl. A.	No exemption, 173.57.	Expl. A.	Not accepted.
Rocket ammunition with illuminat- ing projectiles.	Expl. A.	No exemption, 173.57.	Expl. A.	Not accepted.
Rocket ammunition with gas pro- jectiles.	Expl. A.	No exemption, 173.57.	Expl. A.	Not accepted.
Rocket ammunition with incendi- ary projectiles.	Expl. A.	No exemption, 173.57.	Expl. A.	Not accepted.
Rocket ammunition with inert- loaded ammunition.	Expl. B.	No exemption, 173.90.	Expl. B.	Not accepted.
Rocket ammunition with smoke projectiles.	Expl. A.	No exemption, 173.57.	Expl. A.	Not accepted.
Rocket ammunition with solid pro- jectiles.	Expl. B.	No exemption, 173.90.	Expl. B.	Not accepted.
Rocket engines (liquid), class B.	Expl. B.	No exemption, 173.95.	Expl. B.	Not accepted.
Rocket fireworks. See Common fire- works.				
Rough ammoniate tankages, rub- ber.	F. S.	No exemption, 173.210.	F. S.	Not accepted.
Rough scrap or rubber buffings.	F. S.	173.153, 173.201	F. S.	10 pounds.
Rubber, sheet, or extruded rub- ber, or reclaimed rubber.	F. L.	173.153, 173.201	F. L.	10 pounds.
Rum, denatured.	F. L.	173.118, 173.119	F. L.	10 gallons.
Safety fuse.	See § 173.100 (o).			
Safety squibs.	Expl. C.	No exemption, 173.106.	Expl. C.	150 pounds.
Salt-peter. See Potassium nitrate.				
Salt-peter, Chile. See Sodium nitrate.				
Sulphur. See Common fireworks and Special fireworks.				
Special fireworks.	See § 173.86.			
Stamps of explosives.	See § 173.86.			
Stamps of explosives and explosive articles.	See § 173.86.			

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
<i>Shell's green. See Copper arsenite.</i>				
<i>Self-lighting cigarettes.</i>	See § 173.21 (d).			
<i>Self-propelled vehicles.</i>	See §§ 173.120, 173.257, 173.306, 173.365 (b).			
<i>Shaped charges, commercial. See High explosives.</i>				
<i>Shellac. See Paint, enamel, lacquer, stain, shellac, varnish, etc.</i>				
<i>Shellac, liquid.</i>	F. L.	173.118, 173.128	F. L.	55 gallons.
<i>Shells, fireworks. See Common fireworks of Special fireworks.</i>				
<i>Ship distress signals. See Special fireworks.</i>				
<i>Signal flares.</i>	Expl. C.	No exemption, 173.108	Expl. C.	200 pounds.
<i>Silicon chloride (tetrahydride).</i>	Cor.	173.244, 173.247	Cor.	1 gallon.
<i>Silicon tetrafluoride.</i>	Nonf. C. G.	173.306, 173.302	Nonf. G.	300 pounds.
<i>Silver cyanide.</i>	See § 173.370.			
<i>Silver nitrate.</i>	Oxy. M.	173.153, 173.182	Oxy.	100 pounds.
<i>Silver acid.</i>	Cor.	No exemption, 173.218	Corrosive	1 quart.
<i>Silver ammonium.</i>	Expl. C.	No exemption, 173.101	Expl. C.	150 pounds.
<i>Small arms ammunition, tear gas cartridges.</i>	Expl. C.	No exemption, 173.101	Expl. C.	150 pounds.
<i>Small arms primers.</i>	Expl. C.	No exemption, 173.107	Expl. C.	150 pounds.
<i>Smoke candles.</i>	Expl. C.	No exemption, 173.108	Expl. C.	200 pounds.
<i>Smoke generators. See Chemical ammunition, class B or C.</i>				
<i>Smoke grenades.</i>	Expl. C.	No exemption, 173.108	Expl. C.	200 pounds.
<i>Smoke pots.</i>	Expl. C.	No exemption, 173.108	Expl. C.	200 pounds.
<i>Smoke signals.</i>	Expl. C.	No exemption, 173.108	Expl. C.	200 pounds.
<i>Smokeless powder for cannon or small arms. See Propellant explosives, class A, or propellant explosives, class B.</i>				
<i>Smokeless powder for small arms (100 pounds or less).</i>	See § 173.88 (f), 173.107a.			
<i>Smoke projectiles with bursting charge.</i>				
<i>See Explosive projectiles.</i>				
<i>Smoke projectiles with expelling charge but without bursting charge. See Special fireworks.</i>				
<i>Soda enamel. See High explosives.</i>				
<i>Soda, caustic solution. See Caustic soda, liquid.</i>				
<i>Sodium aluminum hydride.</i>	F. S.	No exemption, 173.206	F. S.	25 pounds.
<i>Sodium aluminate, liquid.</i>	Cor.	173.244, 173.240	Corrosive	10 gallons.
<i>Sodium amide.</i>	F. S.	No exemption, 173.206	F. S.	25 pounds.
<i>Sodium arsenate, solid.</i>	Pois. B.	173.364, 173.365, 173.368	Pois.	200 pounds.
<i>Sodium arsenite (solution), liquid.</i>	Pois. B.	173.345, 173.348	Pois.	55 gallons.
<i>Sodium bromate.</i>	Pois. M.	173.354, 173.375	Pois.	100 pounds.
<i>Sodium bromide.</i>	Oxy. M.	173.153, 173.151	Oxy.	100 pounds.
<i>Sodium cacodylate, solid (sodium dimethyl arsenate).</i>	Pois. B.	173.364, 173.365	Pois.	200 pounds.
<i>Sodium chlorate (soda chlorate).</i>	Oxy. M.	173.153, 173.163	Oxy.	100 pounds.
<i>Sodium chlorite.</i>	Oxy. M.	No exemption, 173.160	Oxy.	100 pounds.
<i>Sodium chlorite solution (not exceeding 42 percent sodium chlorite).</i>	Cor.	173.244, 173.263	Corrosive	4 gallons.
<i>Sodium cyanide. See Cyanide of sodium.</i>				
<i>Sodium dichloroacetate, dry, containing more than 9% available chlorine.</i>	Oxy. M.	173.153, 173.217	Oxy.	100 pounds.
<i>Sodium hydride.</i>	F. S.	No exemption, 173.198	F. S.	25 pounds.
<i>Sodium hydroxide solution. See Caustic soda, liquid.</i>				
<i>Sodium hydroxide, solid.</i>	F. S.	173.153, 173.394	F. S.	100 pounds.
<i>Sodium metallic.</i>	F. S.	No exemption, 173.206	F. S.	25 pounds.
<i>Sodium metallic, dispersion in organic solvent.</i>	F. S.	No exemption, 173.206	F. S.	10 pounds.
<i>Sodium methacrylate, dry.</i>	F. S.	No exemption, 173.202	F. S.	1 pound.
<i>Sodium methacrylate, alcohol mixture.</i>	F. L.	173.153, 173.151	F. L.	100 pounds.
<i>Sodium methylate, alcohol mixture.</i>	F. L.	173.118, 173.119	F. L.	10 gallons.
<i>Sodium nitrate.</i>	Oxy. M.	173.153, 173.182	Oxy.	100 pounds.
<i>Sodium nitrite, raised (used) with potassium nitrate.</i>	Oxy. M.	173.153, 173.184, 173.234	Oxy.	100 pounds.
<i>Sodium nitrite, raised.</i>	Oxy. M.	173.153, 173.183	Oxy.	100 pounds.
<i>Sodium nitrite mixtures (sodium nitrate, sodium nitrite, and potassium nitrate).</i>	Oxy. M.	173.153, 173.234	Oxy.	100 pounds.
<i>Sodium permanganate.</i>	Oxy. M.	173.153, 173.154	Oxy.	100 pounds.
<i>Sodium peroxide.</i>	Oxy. M.	No exemption, 173.187	Oxy.	100 pounds.
<i>Sodium picramate wet with 20 percent of water.</i>	F. S.	No exemption, 173.205	F. S.	25 pounds.
<i>Sodium potassium alloys.</i>	F. S.	No exemption, 173.206	F. S.	25 pounds.
<i>Sodium sulfide.</i>	F. L.	173.153, 173.207	F. L.	300 pounds.
<i>Solvents, n.o.s.</i>	F. L.	173.118, 173.119	F. L.	15 gallons.
<i>*Special fireworks. See Common fireworks.</i>				
<i>Spent iron mass. See Iron mass, spent.</i>				
<i>Spent iron sponge. See Iron sponge, spent.</i>				
<i>Spent mixed acid.</i>	Cor.	No exemption, 173.218	Corrosive	1 quart.
<i>Spent oxide.</i>	F. S.	No exemption, 173.174	F. S.	Not accepted.
<i>Spent sulfuric acid.</i>	Cor.	No exemption, 173.248	Corrosive	1 quart.
<i>Spirits of nitrocellulose.</i>	F. L.	No exemption, 173.153	F. L.	6 quarts.
<i>Spirits of nitroglycerin not exceeding 10 percent by weight.</i>	F. L.	173.118, 173.133	F. L.	6 quarts.
<i>Spurring powder. See Black powder or Propellant explosives, class B.</i>				
<i>Spray starting fluid. See Engine starting fluid.</i>				
<i>Sprender cartridges. See Special fireworks.</i>				
<i>Squib, electric or safety. See Electric squibs or Safety squibs.</i>				
<i>*Stain. See Paint, enamel, lacquer, stain, shellac, varnish, etc.</i>				
<i>Starter cartridges, jet engine, class B explosives.</i>	Expl. B.	No exemption, 173.92	Expl. B.	200 pounds.
<i>Starter cartridges, jet engine, class C explosives.</i>	Expl. C.	No exemption, 173.102	Expl. C.	150 pounds.
<i>Storage batteries, wet. See Batteries, electric storage, wet.</i>				
<i>Stores, ship or aircraft. See § 171.9.</i>				
<i>*Stove polish. See Polishes, metal, stove, furniture and wood, liquid.</i>				
<i>Strike-anywhere matches. See Matches, strike-anywhere.</i>				
<i>Strike-on-box matches. See Matches, strike-on-box.</i>				
<i>Strontium arsenite, solid.</i>	Pois. B.	173.364, 173.365	Pois.	200 pounds.
<i>Strontium chlorate.</i>	Oxy. M.	173.153, 173.163	Oxy.	100 pounds.
<i>Strontium chlorate, wet.</i>	Oxy. M.	173.153, 173.163(a)(6)	Oxy.	200 pounds.
<i>Strontium nitrate.</i>	Oxy. M.	173.153, 173.154	Oxy.	100 pounds.
<i>Strontium peroxide.</i>	Oxy. M.	173.153(a), 173.154	Oxy.	100 pounds.
<i>Succinic acid and salts thereof, solid.</i>	Pois. B.	173.364, 173.365	Pois.	200 pounds.
<i>Synthetic of lead. See Initiating explosive.</i>				
<i>Succinic acid peroxide.</i>	Oxy. M.	173.153(b), 173.157, 173.158	Org. per.	25 pounds.
<i>Sulfide of sodium. See Sodium sulfide.</i>				
<i>Sulfide of potassium. See Potassium sulfide.</i>				
<i>Sulfur chloride (monochloride).</i>	Cor.	No exemption, 173.217	Corrosive	1 gallon.
<i>*Sulfur dioxide.</i>	Nonf. C. G.	173.306, 173.304, 173.314	Nonf. G.	300 pounds.
<i>Sulfur hexafluoride.</i>	Nonf. C. G.	173.315	Nonf. G.	300 pounds.
<i>Sulfur trioxide, stabilized.</i>	Cor.	173.306, 173.304	Corrosive	1 gallon.
<i>Sulfuric acid (not of standard strength). See Sulfuric acid.</i>	Cor.	173.214, 173.253	Corrosive	10 pints.
<i>Sulfuric acid, alcohol mixture.</i>	Cor.	173.214, 173.257	Corrosive	1 quart.
<i>Sulfuric acid, alcohol mixture.</i>	Nonf. C. G.	173.306, 173.304, 173.314	Nonf. G.	300 pounds.

Article	Exemptions and packing (see sec.)	Classed as	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Supplementary charges (explosive).. Tankage. See Charge tankage.	Expl. A..... No exemption, 173.39.	Expl. A.....	Expl. A.....	Not accepted.
Tankage for torches.	No exemption, 173.39.	F. S.	F. S.	Not accepted.
Tankage, rough ammunition.	No exemption, 173.39.	F. S.	F. S.	Not accepted.
Tank car, containing radiant phosphorus and filled with water or inert liquid.	See § 173.32.			
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.			
Tank, empty.	See § 173.29.			
Tear gas.	173.118, 173.131.	F. L.	F. L.	10 gallons.
Tear gas candles.	No exemption, 173.385.	Irr.	Irritant.	75 pounds.
Tear gas cartridges. See Small-arms ammunition tear gas cartridges.				
Tear gas grenades.	No exemption, 173.385.	Irr.	Irritant.	75 pounds.
Tear gas material, liquid or solid, n.o.s.	No exemption, 173.382.	Irr.	Irritant.	75 pounds.
*Tertiary alcohol. See Alcohol, n.o.s.; hydroperoxide.				
Tetraethyl dithio pyrophosphate and compressed gas mixture.	173.113 (b), 173.224.	Oxy. M.	Orig. per.	1 quart.
Tetraethyl dithio pyrophosphate, liquid.	No exemption, 173.334.	Pois. A.	Pois. gas.	Not accepted.
Tetraethyl dithio pyrophosphate, liquid.	No exemption, 173.338.	Pois. B.	Pois.	1 quart.
Tetraethyl dithio pyrophosphate mixture.	173.377.	Pois. B.	Pois.	200 pounds.
Tetraethyl dithio pyrophosphate mixture, liquid.	173.359.	Pois. B.	Pois.	1 quart.
Tetraethyl pyrophosphate.	173.359.	Pois. B.	Pois.	1 quart.
Tetraethyl pyrophosphate and compressed gas mixture.	No exemption, 173.334.	Pois. A.	Pois. gas.	Not accepted.
Tetraethyl pyrophosphate, liquid.	No exemption, 173.338.	Pois. B.	Pois.	1 quart.
Tetraethyl pyrophosphate mixture, dry.	173.377.	Pois. B.	Pois.	200 pounds.
Tetraethyl pyrophosphate mixture, liquid.	173.359.	Pois. B.	Pois.	1 quart.
Tetraethylenediamine, inhibited.	F. C. G.	F. C. G.	F. G.	300 pounds.
Tetraethylenediamine, uninhibited.	173.396, 173.394.	Oxy. M.	Oxy.	33 pounds.
Tetraethylenediamine, uninhibited (tetrazole). See Initiating explosive.				
Textile waste, wet.	No exemption, 173.211.	F. S.	F. S.	Not accepted.
*Thallium salts, solid.	173.364, 173.365.	Pois. B.	Pois.	500 pounds.
*Thallium sulfate, solid.	173.364, 173.366.	Pois. B.	Pois.	200 pounds.
*Thinning compounds, paint, varnish, lacquer, etc. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.				
Thiobis(orthocresylchloride). See Thiophosphorus (Thiocarbonylchloride).				
Thionyl chloride.	No exemption, 173.247.	Cor.	Corrosive.	1 gallon.
Thiophosgene (Thiocarbonylchloride).	No exemption, 173.247.	Cor.	Corrosive.	1 gallon.
Thiophosphoryl chloride.	No exemption, 173.271.	Cor.	Corrosive.	1 quart.
Thorium metal, powdered.	173.352.	F. S.	F. S.	15 pounds.
Thorium metal, solid.	173.352.	R.A.M. oxy.	Radioactive and oxy.	100 pounds.
Time fuses.	No exemption, 173.105.	Expl. C.	Expl. C.	150 pounds.
Tin in tetrahydroxy-suboxyous compound, dry.	173.244, 173.247.	Cor.	Corrosive.	1 quart.
Titanium metal powder, dry, with not less than 20 percent water.	No exemption, 173.208.	F. S.	F. S.	150 pounds.
Titanium sulfate solution containing not more than 45 percent sulfuric acid.	173.244, 173.247.	Cor.	Corrosive.	1 gallon.
Titanium tetrachloride.	173.244, 173.247.	Cor.	Corrosive.	10 gallons.
Toluol (toluene).	173.118, 173.119.	F. L.	F. L.	10 gallons.
Torches. See Common fireworks.				
Torpedoes, cap. See Special fireworks.				
Torpedoes, empty.	See § 173.55.			

Article	Classed as	Exemptions and packing (see sec.)	Label required if not exempt	Maximum quantity in 1 outside container by rail express
Very signal cartridges.....	Expl. C.....	No exemption, 173.108.....	Expl. C.....	200 pounds.
Vinyl acetate.....	F. L.....	173.118, 173.119.....	F. L.....	10 gallons.
Vinyl chloride.....	F. C. O.....	173.306, 173.304, 173.314, 173.315.....	F. G.....	300 pounds.
Vinylidene chloride, inhibited.....	F. L.....	173.118, 173.119.....	F. L.....	10 gallons.
Vinyl fluoride inhibited.....	F. C. O.....	173.306, 173.304, 173.314, 173.315.....	F. G.....	300 pounds.
Vinyl methyl ether, inhibited.....	F. C. O.....	173.300, 173.304, 173.314.....	F. G.....	20 pounds.
Vinyl trichlorosilane.....	F. L.....	No exemption, 173.135.....	F. L.....	10 gallons.
War heads. See Explosive projectiles.				
Waste paper, wet.....	F. S.....	No exemption, 173.180.....	F. S.....	Not accepted.
Waste textile, wet.....	F. S.....	No exemption, 173.211.....	F. S.....	Not accepted.
Waste wool, wet.....	F. S.....	No exemption, 173.213.....	F. S.....	Not accepted.
*Water treatment compound, liquid.	Cor.....	173.244, 173.249.....	Corrosive.....	10 gallons.
*Weed killing compounds, liquid. See *Compounds, tree or weed killing, liquid.				
Wet hair. See Hair wet.				
Wet nitrocellulose, colloided, granular or flake—20 percent alcohol or solvent; or block—25 percent alcohol.	F. L.....	173.118, 173.127.....	F. L.....	25 pounds.
Wet nitrocellulose, colloided, granular or flake—20 percent water.	F. S.....	173.153, 173.184.....	F. S.....	100 pounds.
Wet nitrocellulose—30 percent alcohol or solvent.	F. L.....	173.118, 173.127.....	F. L.....	25 pounds.
Wet nitrocellulose—20 percent water.	F. S.....	173.153, 173.184.....	F. S.....	100 pounds.
Wet nitrocellulose flakes—20 percent alcohol or solvent.	F. L.....	173.118, 173.127.....	F. L.....	25 pounds.
Wet nitroguanidine—20 percent water.	F. S.....	173.153, 173.184.....	F. S.....	100 pounds.
Wet nitrostarch—20 percent water.	F. S.....	173.153, 173.184.....	F. S.....	100 pounds.
Wet nitrostarch—30 percent alcohol or solvent.	F. L.....	173.118, 173.127.....	F. L.....	25 pounds.
Wet paper stock. See Paper stock, wet.				
Wet rags. See Rags, wet.				
Wet textile waste. See Waste textile, wet.				
Wet waste paper. See Waste paper, wet.				
Wet waste wool. See Waste wool, wet.				
Wet alcohol (methanol, methyl alcohol).	F. L.....	173.118, 173.125.....	F. L.....	10 gallons.
Wood filler. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.				
*Wood polish. See *Polishes, metal, stove, furniture and wood, liquid.				
*Wood stain, liquid. See *Paint, enamel, lacquer, stain, shellac, varnish, etc.				
Wool waste, wet. See Waste wool, wet.				
X-ray film (nitrocellulose base).....	F. S.....	No exemption, 173.177.....	F. S.....	200 pounds.
X-ray film (slow-burning).....	See § 173.181 (a) (1).			
X-ray film scrap (nitrocellulose base), samples of.....	F. S.....	No exemption, 173.196.....	F. S.....	25 pounds.
X-ray film scrap (nitrocellulose base), other than samples.....	F. S.....	No exemption, 173.195.....	F. S.....	Not accepted.
X-ray film scrap (slow-burning).....	See § 173.181 (a) (2).			
X-ray film, unexposed (nitrocellulose base).....	F. S.....	173.180.....	F. S.....	250 pounds.
*Xylol (Xylene).....	F. L.....	173.118, 173.119.....	F. L.....	10 gallons.
Xylol bromide.....	Irr.....	No exemption, 173.382.....	Irritant.....	75 pounds.
Zinc ammonium nitrite.....	Oxy. M.....	No exemption, 173.228.....	Oxy.....	100 pounds.
Zinc arsenate.....	Pois. B.....	173.364, 173.365.....	Pois.....	200 pounds.
Zinc arsenite, solid.....	Pois. B.....	173.364, 173.365.....	Pois.....	200 pounds.
Zinc chlorate.....	Oxy. M.....	173.153, 173.163.....	Oxy.....	100 pounds.
Zinc cyanide.....	See § 173.370.			
Zinc ethyl. See Pyroforic liquids, n.o.s.				
Zinc nitrate. See Nitrates, n.o.s.				
Zinc permanganate.....	Oxy. M.....	173.153, 173.154.....	Oxy.....	100 pounds.
Zinc peroxide.....	Oxy. M.....	173.153, 173.154.....	Oxy.....	100 pounds.
Zirconium, metal, dry, mechanically produced, finer than 270 mesh particle size.	F. S.....	No exemption, 173.214.....	F. S.....	75 pounds.
Zirconium metal, dry, chemically produced, finer than 80 mesh particle size.	F. S.....	No exemption, 173.214.....	F. S.....	75 pounds.
Zirconium metal, wet, mechanically produced, finer than 270 mesh particle size.	F. S.....	No exemption, 173.214.....	F. S.....	150 pounds.
Zirconium metal, wet, chemically produced, finer than 80 mesh particle size.	F. S.....	No exemption, 173.214.....	F. S.....	150 pounds.
Zirconium, metallic, solutions or mixtures thereof, liquid.	F. L.....	No exemption, 173.140.....	F. L.....	5 pounds.
Zirconium picramate, wet with 80 percent of water.	Oxy. M.....	No exemption, 173.216.....	Oxy.....	25 pounds.
Zirconium scrap (borings, clippings, shavings, sheets, or turnings).	F. S.....	173.158, 173.220.....	F. S.....	100 pounds.

PART 173—SHIPPERS

(A) In Part 173—Table of Contents, §§ 173.92, 173.94, 173.381, 173.382, 173.402, 173.405, 173.406, 173.407, 173.409, 173.410, 173.413, and 173.414 are amended; §§ 173.415, 173.416, 173.417, 173.420, 173.421, 173.422, and an Appendix A to Part 173 are added; §§ 173.408, 173.411, and 173.412 are canceled as follows:

Sec.

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.

173.94 Explosive power devices, class B.

173.381 Irritating materials, irritant label; definition.

173.382 Irritating materials, not specifically provided for.

173.402 Labeling hazardous materials.

173.405 Explosives labels.

173.406 Nonflammable gas label.

173.407 Flammable gas label.

173.409 Flammable liquid label.

173.410 Flammable solid label.

173.413 Oxidizing material labels.

173.414 Poisonous material labels.

173.415 Irritating material labels.

173.416 Radioactive materials labels.

173.417 Corrosive material label.

173.420 Empty label.

173.421 Spontaneously combustible material label.

173.422 Water-reactive material label.

Appendix A to Part 173—Specifications for Colors.

(B) In § 173.29, paragraphs (e) and (f) are amended to read as follows:

§ 173.29 Empty containers.

(e) Any packaging or accessory which has been used for a shipment of radioactive materials and which contains residual internal radioactive contamination, when shipped as empty, must be securely closed. The external surface must be free of significant removable radioactive contamination as provided in § 173.397(a). The radiation at the external surface of the packaging must not exceed 0.5 millirem per hour. The "Empty" label, described in § 173.420, must be affixed to the packaging.

(f) Unless otherwise specifically provided, any empty packaging offered for transportation (see paragraph (a) of this section) bearing labels described in §§ 173.405 through 173.422 (except § 173.420 of this subchapter) must have these labels removed, obliterated, or completely covered. The label described in § 173.420 is authorized for the latter purpose. Each packaging which last contained explosives and on which the word "Explosives" or the shipping name is printed, stenciled, or otherwise marked or applied, when shipped as empty, must have this marking completely covered or obliterated if shipped in less-than-carload or less-than-truckload lots, or on open-top or flat cars or on open-top or flatbed motor vehicles or trailers. Covering or obliteration

tion of these labels and markings is not required for carload or truckload shipments made in closed cars or van-type motor vehicles when loaded by the shipper and unloaded by the consignee or their authorized agents.

(C) In § 173.54, paragraph (b) is amended to read as follows:

§ 173.54 Ammunition for cannon.

(b) Each outside package must be plainly marked, "Ammunition for Cannon with Explosive Projectiles," "Ammunition for Cannon with Gas Projectiles" (see § 173.414(a) for required label), "Ammunition for Cannon with Smoke Projectiles," "Ammunition for Cannon with Incendiary Projectiles," or "Ammunition for Cannon with Illuminating Projectiles," as appropriate.

(D) In § 173.56, paragraph (g) is amended to read as follows:

§ 173.56 Ammunition, projectiles, grenades, bombs, mines, gas mines, and torpedoes.

(g) Bombs, projectiles, grenades, ammunition for cannon with gas projectiles, or other containers loaded with a poisonous gas or liquid, class A, and an explosive charge, either boxed or unboxed (see paragraph (c) of this section), must bear the "Poison Gas" label.

(E) In § 173.57, paragraph (b) is amended to read as follows:

§ 173.57 Rocket ammunition.

(b) Each outside package must be plainly marked "Rocket Ammunition with Explosive Projectiles," "Rocket Ammunition with Gas Projectiles" (see § 173.414(a) for required label), "Rocket Ammunition with Smoke Projectiles," "Rocket Ammunition with Incendiary Projectiles," or "Rocket Ammunition with Illuminating Projectiles," as appropriate.

(F) In § 173.86, paragraph (c) and paragraph (d) (6) are amended to read as follows:

§ 173.86 New explosives and samples for laboratory examination.

(c) Shipments of samples of explosives, fireworks, and explosive devices must be packaged, marked, and labeled (see paragraph (d) (6) of this section), and described as required by this part for the explosive contained therein.

(1) If the explosive in the sample has not been examined and approved as required by paragraph (a) of this section, a tentative classification must be assigned by:

(i) The Bureau of Explosives for other than military explosives, and

(ii) The Department of Defense (Army Material Command—AMCSF; Naval Ordnance Systems Command—ORD-048; HQ USAF, IGD/SEO) for military explosives.

(d) • • •

(6) Each package containing a sample of an explosive 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 subchapter.

(G) In § 173.91, paragraph (j) is canceled as follows:

§ 173.91 Special fireworks.

(j) [Canceled]

(H) In § 173.92, the heading is amended and paragraph (e) is 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]

(I) In § 173.93, paragraph (g) (2) is 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]

(J) In § 173.94, the heading is amended, paragraph (b) is canceled as follows:

§ 173.94 Explosive power devices, Class B.

(b) [Canceled]

(K) In § 173.101, paragraphs (c) and (d) are amended to read as follows:

§ 173.101 Small-arms ammunition.

(c) Packages containing small-arms ammunition are exempt from the label prescribed in § 173.402, but the outside of each package must be plainly marked "Small Arms Ammunition."

(d) Each package containing cartridges with Irritant material must in addition to marking prescribed herein be marked "Irritating Agents" and must be labeled with the Irritant label. (See § 173.415 for a description of the label.)

(L) In § 173.119, paragraph (h) (1) (1) is amended to read as follows:

§ 173.119 Flammable liquids not specifically provided for.

(h) • • •

(1) • • •

(i) Bung label. A flammable liquid as described in paragraph (e) or (f) of this section, shipped in a metal drum or barrel, in addition to the flammable liquid label described in § 173.409, must be labeled near the bung with a white rec-

tangular label or tag measuring 5 by 3 inches, bearing the following wording:

(M) In § 173.132, paragraph (b) is amended to read as follows:

§ 173.132 Cement, liquid, n.o.s., container cement, linoleum cement, pyroxylin cement, rubber cement, tile cement, wallboard cement, and coating solution.

(b) Cements, except cements containing carbon bisulfide, in glass, earthenware, or in leakproof containers with fiberboard bodies and metal tops and bottoms of not over 1-quart capacity each, or in metal containers of not over 5-gallon capacity each, packaged in a strong outside package are exempt from specification packaging, marking, and labeling requirements when offered for transportation by rail freight, highway, or water. However, when offered for transportation by water, name of contents must be marked on each outside package. Shipments for transportation by highway carriers are exempt also from Part 177 of this subchapter, except § 177.817. When offered for transportation by rail express, these shipments are exempt from specification packaging, marking, and labeling requirements, except that packages having inside containers of over 1-quart capacity each must be marked with name of contents and bear the flammable liquid label described in § 173.409. When a fiberboard box is used for these shipments by rail freight, rail express, highway, or water, the gross weight must not exceed 65 pounds.

(N) In § 173.144, paragraph (b) is amended to read as follows:

§ 173.144 Inks.

(b) Ink in glass or earthenware containers of not over 1-quart capacity each, or in metal containers of not over 5-gallon capacity each, packaged in a strong outside package is exempt from specification packaging, marking, and labeling requirements when offered for transportation by rail freight, highway, or water except that when offered for transportation by carrier by water, the name of contents must be marked on the outside package. Shipments for transportation by highway carriers are exempt also from Part 177 of this subchapter, except § 177.817. When offered for transportation by rail express, such shipments are exempt from specification packaging, marking, and labeling requirements, except that packages having inside containers of over 1-quart capacity each must be marked with name of contents and bear the flammable liquid label as described in § 173.409. When a fiberboard box is used for these shipments by rail freight, rail express, highway, or water, the gross weight must not exceed 65 pounds.

(O) In § 173.180, the introductory text of paragraph (a) is amended to read as follows:

§ 173.180 Motion-picture film, and X-ray film, unexposed.

(a) Motion-picture film, and X-ray film, unexposed (nitrocellulose base), when offered for transportation by rail express or by carrier by water must bear the flammable solid label described in § 173.410 and must be packaged in specification packagings as follows:

(P) Section 173.197a is amended to read as follows:

§ 173.197a Smokeless powder for small arms.

Smokeless powder for small arms in quantities not exceeding 100 pounds net weight transported in one car or motor vehicle may be classed as a flammable solid when approved for this classification by the Bureau of Explosives. Maximum quantity in any inside packaging must not exceed 8 pounds and inside packagings must be arranged and protected to prevent simultaneous ignition of the contents. The complete package must be a type approved by the Bureau of Explosives. Each outside package must bear a flammable solid label.

(Q) In § 173.260, paragraph (f) is amended to read as follows:

§ 173.260 Electric storage batteries, wet.

(f) Electric storage batteries containing electrolyte or corrosive battery fluid, other than those of the nonspillable type, when shipped in less-than-carload and less-than-truckload lots, must be marked and labeled as described in §§ 173.401 (a), (c), and 173.417.

(R) In § 173.304, paragraph (a) (1) is amended to read as follows:

§ 173.304 Charging of cylinders with liquefied compressed gas.

(a) (1) Specifications 3¹, 3A, 3AA, 3B, 3BN, 3D, 3E, 4, 4A, 4B, 4BA, 4B-ET, 4BW, 9¹, 25¹, 26¹, 38¹, 39, 40¹, or 41¹ (§§ 178.36, 178.37, 178.38, 178.39, 178.41, 178.42, 178.48, 178.49, 178.50, 178.51, 178.55, 178.61, 178.65 of this subchapter), except that no specification 9, 39, 40, or 41 packaging may be charged and shipped with a mixture containing a pyrophoric liquid, carbon bisulfide (disulfide), ethyl chloride, ethylene oxide, nickel carbonyl, spirits of nitroglycerin, or poisonous material (Class A, B, or irritating material), unless specifically authorized in this part.

(S) In § 173.305, paragraph (d) is amended to read as follows:

§ 173.305 Charging of cylinders with a mixture of compressed gas and other material.

(d) *Poisonous mixtures.* A mixture containing any poisonous material, Class A, or irritating material in such proportions that the mixture would be classed as poisonous under § 173.326 (a) or

¹ Use of existing cylinders authorized, but new construction not authorized.

§ 173.381 (a) must be shipped in packagings as authorized for these poisonous materials.

(T) In § 173.325, paragraph (a) (3) is amended to read as follows:

§ 173.325 Classes of poisonous materials.

(a) . . .

(3) Irritating materials.

(U) In § 173.330, paragraph (a) is amended to read as follows:

§ 173.330 Chemical ammunition.

(a) Projectiles, shells, bombs, and grenades containing poisonous gases or liquids, Class A (§ 173.326), but not equipped or packaged with ignition elements, bursting charges, detonating fuzes, or explosive components, may be shipped only by, for, or to the Department of Defense. Each shipment must be packaged, marked, and labeled as required by their regulations. Each package must be labeled with the "Poison gas" label and marked "Nonexplosive" and with the name of the contents. (See §§ 173.53 (r) and 173.59 for explosive chemical ammunition.)

(V) In § 173.381, the heading and paragraphs (a) and (c) are amended to read as follows:

§ 173.381 Irritating materials, irritant label; definition.

(a) For the purpose of Parts 170-189 of this subchapter, an irritating material is a liquid or solid substance which upon contact with fire or when exposed to air gives off dangerous or intensely irritating fumes, such as brombenzylcyanide, chloracetophenone, diphenylaminechlorarsine, and diphenylchlorarsine, but not including any poisonous material, Class A.

(c) The transportation of an irritating material is not permitted if there is any type of interconnection between packagings.

(W) In § 173.382, the heading, the introductory text of paragraphs (a) and (b) are amended to read as follows:

§ 173.382 Irritating materials, not specifically provided for.

(a) Irritating materials as defined in § 173.381 (a) for which special packaging is not otherwise prescribed, must be packaged in specification packagings as follows:

(b) No irritating material may be loaded into or transported in any cargo tank.

(X) In § 173.383, paragraph (a) is amended to read as follows:

§ 173.383 Chemical ammunition.

(a) Chemical ammunition consisting of projectiles, shells, bombs, or other containers, except grenades, filled with an irritating material without ignition elements, bursting charges, detonating fuzes, or other explosive components,

must be packaged for shipment in strong outside wooden or metal boxes. Boxes must be marked with name of contents and labeled as prescribed in this part for gases, liquids, or chemicals contained therein.

§ 173.396 [Amended]

(Y) In § 173.396, paragraph (g) (3) is amended by changing § 173.414 to read "§ 173.416." See docket HM-73; Amendment No. 173-69 (38 FR 4396).

(Z) In § 173.399, the introductory text of paragraphs (a) and (b) are amended to read as follows:

§ 173.399 Labeling of packages of radioactive materials.

(a) Each package of radioactive materials, unless exempted by § 173.391 or § 173.392, must be labeled as provided in this section (see § 173.416 for description of labels). The label to be used must be determined by the transport index or other considerations as follows:

(b) A radioactive material having any other hazardous characteristic as defined elsewhere in this part also must bear any other labels as required by this part according to the hazards of the material (see §§ 173.2 and 173.402). For example:

(1) Packages containing the solid nitrates of uranium or thorium must bear both a "Radioactive" label and an "Oxidizer" label.

(AA) The editorial note immediately preceding § 173.400 is deleted.

(BB) In § 173.400, paragraphs (a) and (d) are amended; paragraph (a) (1) is added; paragraphs (e), (f), (g) and Note 2 following paragraph (a) are canceled as follows:

§ 173.400 Explosives.

(a) Each package containing explosives must be labeled as prescribed in § 173.402 and marked with its proper shipping name as shown in § 172.5 of this subchapter and such other marking as prescribed for the explosive in the shipment. Abbreviations must not be used. (See Note 1.)

NOTE 1 remains the same.
NOTE 2: [Canceled].

(1) Except as specified in paragraph (d) of this section, a label is not required on military ammunition shipped by, for, or to the U.S. Department of Defense when in carload or truckload shipments if the shipment is loaded and unloaded by the shipper, or the Department of Defense.

(d) Each package of chemical ammunition, explosive, containing poisonous gases, solids or liquids, Class A, Class B, or irritating material must also have securely attached to it labels described in § 173.414 or § 173.415, as appropriate.

(1) A carload or truckload shipment of chemical ammunition, explosive, containing poisonous gases, solids or liquids, Class A, Class B, or irritating material

offered for transportation by, for, or to the U.S. Department of Defense is exempt from labeling requirements when the shipment is loaded or unloaded by the shipper or his duly authorized agent and this shipment is accompanied by qualified personnel supplied with equipment to repair leaks or other container failure which will permit escape of contents.

- (e) [Canceled]
- (f) [Canceled]
- (g) [Canceled]

(CC) In § 173.402, the heading and paragraphs (a) and (b) are amended to read as follows:

§ 173.402 Labeling hazardous materials.

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

(1) For an explosive, an "Explosive A," "Explosive B," or "Explosive C" label as appropriate. For the label description, see § 173.405.

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

(3) For a flammable compressed gas, a "Flammable gas" label as described in § 173.407.

(4) For a flammable liquid, a "Flammable liquid" label as described in § 173.409.

(5) For a flammable solid, a "Flammable solid" label as described in § 173.410.

(6) For an oxidizing material that is not an organic peroxide, an "Oxidizer" label as described in § 173.413(a).

(7) For an organic peroxide that is classed as an oxidizing material, an "Organic peroxide" label as described in § 173.413(b).

(8) For any poisonous material except an irritating material, a "Poison gas" or "Poison" label as appropriate. For the label description see § 173.414.

(9) For a poisonous material that is an irritating material, an "Irritant" label as described in § 173.415.

(10) For a radioactive material, "Radioactive—White I," "Radioactive Yellow—II," or "Radioactive Yellow—III" labels, as appropriate. Each package must be labeled with two such labels, affixed to opposite sides of the package. For the label description see § 173.416.

(11) For a corrosive material, a "Corrosive" label as described in § 173.417.

(12) As prescribed for use under § 173.29 of this subchapter, an "Empty" label as described in § 173.420.

(13) 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(h)(1)(i).

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

(DD) In § 173.403, paragraph (a) is amended and paragraphs (b) and (c) are canceled as follows:

§ 173.403 Labels for mixed packing.

(a) When hazardous materials having different classifications are packed within the same packaging or the same outer enclosures as described in § 173.25, the outside of the package must be labeled as required for each material involved.

- (b) [Canceled]
- (c) [Canceled]

(EE) In § 173.404, paragraphs (b), (d), (e), and (g) are amended; paragraphs (f) and (h) and note following paragraph (g) are added to read as follows:

§ 173.404 Labels.

(b) Labels must not be applied to a package containing only material which is not subject to Parts 170-189 of this subchapter or which is exempted therefrom. However, this paragraph does not prohibit the use of labels required for purposes of import or export shipments or required by 14 CFR 103.13 of the Federal Aviation Regulations on packages destined for transportation by air.

(d) Except as otherwise provided in this part, each label must be diamond shape with each side at least 4 inches long and have a solid line border at least 3.5 inches long on each side. The specifications for colors in Appendix A to this part should be followed for the colors prescribed in §§ 173.405 through 173.422.

(e) Form identification information (including name of supplier) may be printed on a label, in type not larger than 10 point, if it is placed outside of the solid line border of the label.

(f) For import shipments only, labels affixed to packages in another country having the same size, symbols, and color as prescribed in these regulations are authorized in place of the labels prescribed herein. They may contain inscriptions required by the country of origin.

(g) A label may be over stamped or overprinted with the appropriate hazard class numeral as listed in § 172.4 of this subchapter. The number should be black, at least 0.25 inch in height, and must be located in the bottom corner of the label.

NOTE: The display of the class number on labels is required by some foreign governments.

(h) Labels required by the regulations immediately prior to January 1, 1974, may be used until January 1, 1975. This provision does not apply to the required use of labels for explosives.

(FF) Section 173.405 is amended to read as follows:

§ 173.405 Explosives labels.

(a) Each "Explosive A," "Explosive B," and "Explosive C" label except for size and color, must be as shown:



(1) In addition to the requirements specified in § 173.404, each label must be orange, with the inscription, border, and symbol black.

(GG) Section 173.406 is amended to read as follows:

§ 173.406 Nonflammable gas label.

(a) Each "Nonflammable gas" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, each label must be green, with the inscription, border, and symbol black.

(HH) Section 173.407 is amended to read as follows:

§ 173.407 Flammable gas label.

(a) Each "Flammable gas" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, each label must be red, with the inscription, border, and symbol black.

§ 173.408 [Canceled]

(II) Section 173.408 is canceled.

(JJ) Section 173.409 is amended to read as follows:

§ 173.409 Flammable liquid label.

(a) Each "Flammable liquid" label except for size and color must be as shown:



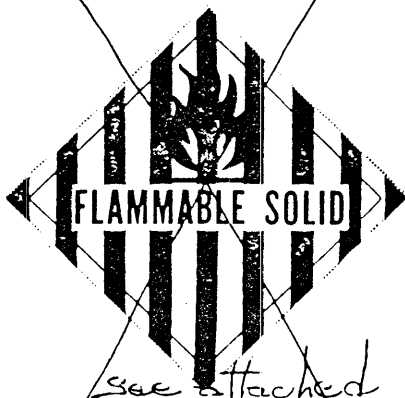
(1) In addition to the requirements of § 173.404, each label must be red, with the inscription, border, and symbol black.

(KK) Section 173.410 is amended to read as follows:

§ 173.410 Flammable solid label.

(II) Section 173.408 is canceled.

(a) Each "Flammable solid" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, each label must be white with vertical red stripes as depicted by the shaded area, with the inscription, border, and symbol black. The words "Flammable solid" must not contact any red stripe.

§§ 173.411-173.412 [Canceled]

(LL) Section 173.411 is canceled.

(MM) Section 173.412 is canceled.

(NN) Section 173.413 is amended to read as follows:

§ 173.413 Oxidizing material labels.

(a) Each "Oxidizer" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, each label must be yellow, with the inscription, border, and symbol black.

(b) Each "Organic peroxide" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, each label must be yellow, with the inscription, border, and symbol black.

(OO) Section 173.414 is amended to read as follows:

§ 173.414 Poisonous material labels.

(a) In addition to the requirements of § 173.404, each "Poison gas" label except for size must be as shown:



(b) In addition to the requirements of § 173.404, each "Poison" label except for size must be as shown:



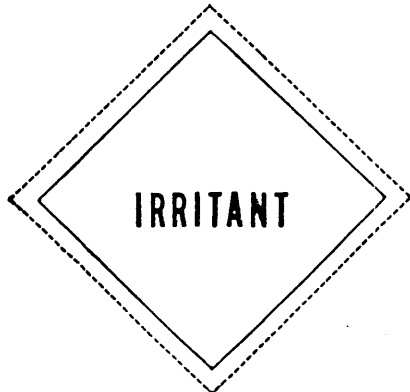
(1) For export or import shipments and if required by the regulations of the country of origin, destination, or through which the shipment will be transported, this label may be used for etiologic agents

in addition to the label required by § 173.388.

(PP) Section 173.415 is added to read as follows:

§ 173.415 Irritating material labels.

(a) Each "Irritant" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, the inscription must be in red and the border black.

(2) For import or export shipment, in addition to the requirements of § 173.404, each "Irritant" label except for size may be as shown:



(QQ) Section 173.416 is added to read as follows:

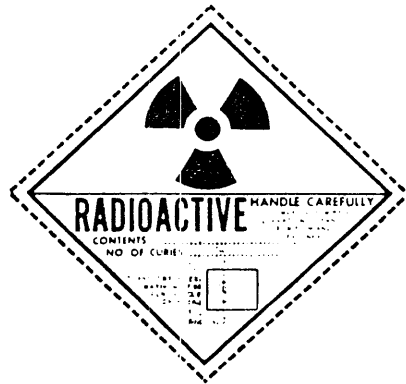
§ 173.416 Radioactive materials labels.

(a) Each "Radioactive-White-I" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, each label must be white. The printing, border, and symbol must be black except that the vertical bar must be a red overprint.

(b) Each "Radioactive Yellow-II" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, the upper half must be yellow and the bottom half must be white. The printing, border, and symbol must be black except that the two vertical bars must be a red overprint.

(c) Each "Radioactive Yellow-III" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, the upper half must be yellow and the bottom half must be

white. The printing, border, and symbol must be black except that the three vertical bars must be a red overprint.

(RR) Section 173.417 is added to read as follows:

§ 173.417 Corrosive material label.

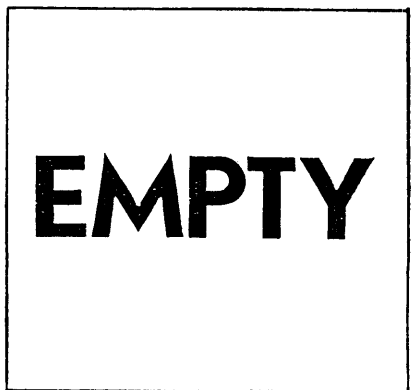
(a) In addition to the requirements of § 173.404, each "Corrosive" label except for size must be as shown:



(SS) Section 173.420 is added to read as follows:

§ 173.420 Empty label.

(a) Each "Empty" label except for size must be as shown:



(1) Each side must be at least 6 inches long, with each letter at least 1 inch high.

(TT) Section 173.421 is added to read as follows:

§ 173.421 Spontaneously combustible material label.

(a) The "Spontaneously combustible" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, the label must be white in the upper half and red in the lower half. The inscription, border, and symbol must be black.

(b) If use of this label is required by the regulations of another country, it may be used in addition to the label required by § 173.402.

(UU) Section 173.422 is added to read as follows:

APPENDIX A TO PART 173—SPECIFICATIONS FOR COLORS¹

¹Specifications for colors (in Munsell notations) on labels and placards are as follows:

Paint, lacquer, enamel and plastic										Printing ink Centroid
Color	Centroid	Tolerances								
		Hue		Value		Chroma ²				
		+	-	+	-	+	-			
Red	7.5R 4.0/14	8.5R	6.5R	4.5/	3.5/	/16	/12	7.5R 4.3/13.		
Orange	5.0YR 6.0/15	6.5YR	3.75YR	6.5/	5.5/	/16	/13	5YR 6.5/14.		
Yellow	5.0Y 8.0/12	6.5Y	3.5Y	8.5/	7.5/	/14	/10	5Y 8.2/12.		
Green	7.5G 4.0/9	6.5BG	5.0G	4.5/	3.5/	/11	/7	7.5G 4.1/9.		
Blue	2.5PB 3.5/10	4.5PB	10.0B	4.0/	3.0/	/12	/8	2.5PB 4.2/10.		
Purple	10.0P 4.5/10	2.5RP	7.5P	5.0/	4.0/	/12	/8	10P 4.5/12.		

NOTE 1: Black and colors on labels and placards must be capable of withstanding a 72-hour fadeometer test, and withstanding open-weather exposure for no less than 30 days without a substantial reduction in effectiveness.

NOTE 2: The maximum chroma is not limited. Colors within the specified hue and value limits may have any saturation above that specified for the chroma minimum, however, chroma at least as strong as the centroid is desired.

NOTE 3: For the colors green and purple, the minimum saturation (chroma) limits for porcelain enamel on metal are lower than for most other surface coatings. Therefore, the minimum chroma limits for porcelain enamel on metal for these 2 colors may be as low as that shown in the chroma double minus column.

NOTE 4: Color chips are available from the National Technical Information Service (NTIS), Springfield, Va. 22151, as a set of the 6 colors and prescribed tolerances for \$18 per set.

PART 174—CARRIERS BY RAIL FREIGHT

(A) In § 174.507, the sentence preceding paragraph (a), and paragraph (c) are amended to read as follows:

§ 174.507 Labels.

(See §§ 173.405 to 173.422 of this subchapter for description of labels.)

(c) Labels prescribed in §§ 173.405 through 173.422 of this subchapter must have been applied to packages by the shipper, unless exempted from the labeling requirements, the exemption being noted on the shipping paper.

§ 174.511 [Amended]

(B) In § 174.511, the text following the certification is canceled.

§ 173.422 Water-reactive material label.

(a) The "Dangerous when wet" label except for size and color must be as shown:



(1) In addition to the requirements of § 173.404, the label must be blue. The inscription, border, and symbol must be black.

(b) If use of this label is required by the regulations of another country, it may be used in addition to the label required by § 173.402.

(VV) Appendix A is added to Part 173 to read as follows:

§ 174.532 Loading other hazardous materials.

(b) Flammable liquids, or flammable gases 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 liquids or flammable gases 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 flatcars.

(2) This prohibition does not apply and heating or refrigeration apparatus may be operated on motor vehicles loaded on flatcars when such motor vehicles are loaded with flammable liquids or 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 § 393.77 of this title.

(c) Packages bearing labels must be loaded so they cannot fall and other packages cannot fall onto or slide against them. This requirement does not preclude the use of loading methods that are designed to permit limited movement of the load and that are approved in writing by the Federal Railroad Administrator. Packages bearing markings "This Side Up" or "This End Up" must be so loaded. Hazardous materials for which a flammable liquid, flammable gas, flammable solid, oxidizer, nonflammable gas, or a corrosive label (liquids only) is prescribed herein must not be loaded in the same car with explosives named in §§ 173.53 to 173.87 of this subchapter. (See loading and storage chart § 174.538.) Packages bearing a flammable solid or an oxidizer label must not be loaded in the same end of a car with packages bearing a corrosive label (liquids only), except that shippers loading carload shipments who have obtained prior approval from the Department, may load materials together when it is known that the mixture of contents would not cause a dangerous evolution of heat or gas.

(E) In § 174.538, paragraph (a) chart, the headings of columns 10, 11, 12, and 13, both horizontally and vertically, and footnote b are amended to read as follows:

§ 174.538 Loading and storage chart of hazardous materials.

(a)
Chart
Column 10: Flammable liquids or flammable gases; Flammable liquid or flammable gas label.

Column 11: Flammable solids or oxidizing materials; Flammable solid, oxidizer, or organic peroxide label.

(C) In § 174.527, paragraph (a) is amended to read as follows:

§ 174.527 Forbidden mixed loading and storage.

(a) Class A explosives and initiating or priming explosives must not be transported together in the same rail car. Additionally, they must not be transported, loaded, or stored on carrier property with charged electric storage batteries or with any hazardous material for which a flammable liquid, flammable solid, flammable gas, oxidizer, organic peroxide, nonflammable gas, corrosive, or radioactive label is prescribed in these regulations.

(D) In § 174.532, paragraphs (b) and (c) and paragraphs (b) (1) and (b) (2) are amended to read as follows:

Column 12: Corrosive liquids; Corrosive label.

Column 13: Nonflammable gases; Nonflammable gas label.

Unless loaded in opposite ends of car, corrosive liquids must not be loaded with flammable solids, oxidizing materials, ammunition for cannon with or without projectiles, or propellant explosives, except that shippers loading carload shipments of corrosive liquids and flammable solids or oxidizing materials and who have obtained prior approval from the Department may load such materials together when it is known that the mixture of contents will not cause a dangerous evolution of heat or gas.

(F) In § 174.541, paragraphs (a) (1) and (b) are amended to read as follows:

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

(a) . . .

(1) Cars containing one or more packages bearing a flammable liquid, flammable solid, flammable gas, oxidizer, organic peroxide, corrosive (liquid only), or poison label, as described in §§ 173.405 to 173.417 of this subchapter.

(b) "Dangerous—Radioactive Material" placards, as prescribed in § 174.553, must be applied to cars containing packages bearing a "radioactive yellow-III" label (three vertical red stripes) as described in § 173.416(c) of this subchapter, and to carload lots under §§ 173.392 and 173.393 (j) and (k) of this subchapter.

(G) In § 174.544, subparagraphs (a) (2), (a) (3), and (a) (6) are amended to read as follows:

§ 174.544 Placards not required.

(a) . . .

(2) Cars, other than tank cars, containing nonflammable gas.

(3) Cars containing irritating materials.

(6) Cars containing packages of radioactive material which are exempted from labeling under § 173.391 of this subchapter, which bear only the labels described in § 173.416 (a) and (b) of this subchapter, or which are exempted from placarding under § 173.392(c) (7) of this subchapter.

(H) In § 174.576, paragraph (b) is amended to read as follows:

§ 174.576 Intermediate shippers and carriers.

When a carrier offering or delivering for rail transportation any loaded motor vehicle or any loaded motor vehicle trailer, semitrailer, or container containing any hazardous material shall show on the shipping order, shipping paper, transfer sheet, or other billing issued in place thereof, in addition to the description of the vehicle or container, the proper name of the material

as shown in § 172.5 of this subchapter and the kind of placards applied.

§ 174.584 [Amended]

(I) In § 174.584 paragraph (a) table, the first column headed, "Label Notation to Follow Entry of the Article on the Billing," is deleted.

§ 174.586 [Amended]

(J) In § 174.586, paragraph (h) (3) is amended by changing § 173.414 to read "§ 173.416." See Docket HM-73; Amendment No. 174-16 (38 FR 4396).

(K) In § 174.598, paragraph (c) is amended to read as follows:

§ 174.598 Inspection of cars at interchange.

(c) Shipments of hazardous materials offered by connecting lines must comply with Parts 170-189 of this subchapter, and the revenue waybill, freight bill, manifest of lading, card waybill, switching order, transfer slip ticket, or other billing, must bear the placard endorsement prescribed by § 174.584.

PART 175—CARRIERS BY RAIL EXPRESS

(A) In § 175.653, paragraph (a) is amended to read as follows:

§ 175.653 Labels.

(a) Labels described in §§ 175.405 through 173.422 of this subchapter must have been applied to packages by the shipper, unless exempted from the labeling requirements, the exemption being noted on the shipping paper.

§ 175.654 [Amended]

(B) In § 175.654 the text following the certification is canceled.

(C) In § 175.655, paragraph (d) and the introductory text of paragraph (h) are amended; paragraph (j) (4) is amended by changing § 173.414 to read "§ 173.416." See Docket HM-73; Amendment No. 175-9 (38 FR 4396).

§ 175.655 Protection of packages.

(d) Shipments of hazardous materials, except poisons and nonflammable compressed gases, when transported in passenger carrying trains, should be loaded in the car occupied by an express employee or in connecting cars to which an express employee has access through end doors, and in a place that will permit their ready removal in case of fire. They must not be loaded in cars or stored in stations near steam pipes or other sources of heat. Explosives, flammable liquids, and flammable compressed gases must not be loaded, transported, or stored in cars or stations equipped with lighted heaters or where open-flame lights or stoves or electric devices having exposed heating coils are used. No placards are required on these cars when occupied by an express employee. Packages bearing a poison label, when practicable, should be loaded in sealed cars; when loaded in cars occupied by a mes-

senger, care should be taken to prevent any contents sifting or leaking from packagings.

(h) Carriers shall prevent contact of contents of packages bearing either a flammable solid, oxidizer, or corrosive label with combustible substances, such as sawdust, shavings, or sweepings, that may be present in express cars. The space should be swept or cleaned.

PART 176—RAIL CARRIERS IN BAGGAGE SERVICE

(A) In § 176.703, paragraph (b) table is amended by changing all "Red gas label" in the second column to read "Flammable gas label" and the "Green gas label" to read "Nonflammable gas label"; paragraph (f) is amended to read as follows:

§ 176.703 Acceptable articles.

(f) When slow-burning (nonflammable) motion-picture films are packaged in the same outside containers with flammable motion-picture films, the outside packages must bear the flammable solid 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.)

§ 176.701a [Amended]

(B) In § 176.704a, the text following the certificate is canceled.

(C) In § 176.704b, paragraph (a) is amended to read as follows:

§ 176.704b Labels.

(a) Labels described in §§ 173.405 through 173.422 of this subchapter must have been applied to packages by the shipper, unless exempted from the labeling requirements, the exemption being noted on the shipping papers.

PART 177—SHIPMENTS MADE BY WAY OF COMMON, CONTRACT, OR PRIVATE CARRIERS BY PUBLIC HIGHWAY

(A) In § 177.802, paragraphs (b), (c), and (d) are canceled as follows:

§ 177.802 Application of regulations in Parts 170-189 of this chapter.

(b) [Canceled]

(c) [Canceled]

(d) [Canceled]

(B) In § 177.815, paragraph (a) is amended to read as follows:

§ 177.815 Labels.

(a) Labels described in §§ 173.405 through 173.422 of this subchapter must have been applied to packages by the shipper, unless exempted from the labeling requirements, the exemption being noted on the shipping paper.

(C) In § 177.819 paragraph (a), the text following the certificate is canceled.
(D) In § 177.821, paragraph (f) is amended to read as follows:

§ 177.821 Hazardous materials forbidden or limited for transportation.

(f) Smokeless powder for small arms in quantities not exceeding 100 pounds net weight transported in one car or motor vehicle may be classed as a flammable solid when approved for this classification by the Bureau of Explosives. Maximum quantity in any inside packaging must not exceed 8 pounds and inside packagings must be arranged and protected to prevent simultaneous ignition of the contents. The complete package must be a type approved by the Bureau of Explosives. Each outside package must bear a flammable solid label.

(E) In § 177.823, paragraph (a) (4) is amended and note 1 following paragraph (b) (1) is canceled as follows:

§ 177.823 Required exterior marking on motor vehicles and combinations.

(a)
(4) Any motor vehicle, trailer, or other cargo-carrying body containing more than one kind of hazardous material requiring different placards under the provisions of subparagraph (a) (1) of this paragraph, the aggregate gross weight of which totals 1,000 pounds or more, must be marked or placarded "Dangerous" instead of being marked or placarded as required by that subparagraph. Any such vehicle which contains any quantity of explosives class A, explosives class B, poison class A, or radioactive materials requiring labeling as described in § 173.416(c) of this subchapter, must display the marking or placard "Explosives A," "Explosives B," "Poison," or "Radioactive," as appropriate, in addition to the marking or placard "Dangerous." If explosives class A and explosives class B are loaded on the same vehicle, the "Explosives B" marking need not be displayed.

(b)
(1)

NOTE 1: [Canceled].

(F) In § 177.834, paragraph (1) is amended to read as follows:

§ 177.834 General requirements.

(1) *Truck bodies or trailers equipped with heaters or automatic refrigeration apparatus.* Except as provided in subparagraph (1) of this paragraph flammable liquids and flammable gases must not be loaded in truck bodies or trailers equipped with heaters or automatic refrigerating apparatus unless the auto-

matic apparatus is rendered inoperative. The fuel tanks for such apparatus must be empty or removed from the vehicle, except that liquefied petroleum gas fuel tanks exterior to the vehicle body may have their valves closed and disconnected from the fuel feed lines in place of being emptied or removed.

(G) In § 177.838, paragraphs (e) (2) and (g) are amended to read as follows:

§ 177.838 Flammable solids and oxidizing materials.

(e)
(2) *Flammable liquids.* Matches must not be loaded next to a package bearing a flammable liquid label.

(g) Smokeless powder for small arms in quantities not exceeding 100 pounds net weight transported in one car or motor vehicle may be classed as a flammable solid when approved for this classification by the Bureau of Explosives. Maximum quantity in any inside packaging must not exceed 8 pounds and inside packagings must be arranged and protected so as to prevent simultaneous ignition of the contents. The complete package must be a type approved by the Bureau of Explosives. Each outside packaging must bear a flammable solid label.

(H) In § 177.841, paragraphs (b) and (c) are amended to read as follows:

§ 177.841 Poisons.

(b) No Class A or irritating materials in cargo tanks. No poison, Class A, or irritating material may be loaded into or transported in any cargo tank.

(c) *Class A poisons or irritating materials.* The transportation of a Class A poison or an irritating material is not permitted if there is any interconnection between packagings.

§ 177.842 [Amended]

(I) In § 177.842, paragraph (f) is amended by changing § 173.414 to read § 173.416." See Docket HM-73; Amendment No. 177-23 (38 FR 4356).

(J) In § 177.848 paragraph (a) chart, the headings of columns 10, 11, 12, and 13 both horizontally and vertically, and footnote b following the table are amended to read as follows:

§ 177.848 Loading and storage chart of hazardous materials.

(a)
Chart
Column 10: Flammable liquids or flammable gases; Flammable liquid or flammable gas label.

Column 11: Flammable solids or oxidizing materials; Flammable solid, oxidizer, or organic peroxide label.

Column 12: Corrosive liquids; Corrosive label.

Column 13: Nonflammable gases; Non-flammable gas label.

^b Corrosive liquids must not be loaded above or adjacent to flammable solids, oxidizing materials, ammunition for cannon with or without projectiles, or propellant explosives, except that shippers loading truckload shipments of corrosive liquids and flammable solids or oxidizing materials packages and who have obtained prior approval from the Department may load such materials together when it is known that the mixture of contents would not cause a dangerous evolution of heat or gas.

(K) In § 177.870, paragraph (g) is amended to read as follows:

§ 177.870 Regulations for passenger carrying vehicles.

(g) *Radioactive materials.* In addition to the limitations prescribed in paragraphs (b) and (e) of this section, no person may transport any radioactive material requiring labels under § 173.416 of this subchapter in or on any motor vehicle carrying passengers for hire except where no other practicable means of transportation is available. Packages of radioactive materials must be stored only in the trunk or baggage compartment of the vehicle, and must not be stored in any compartment occupied by persons. Packages of radioactive materials must be handled and placed in the vehicle as prescribed in § 177.842.

This amendment is effective January 1, 1974. However, compliance with the regulations, as amended herein, is authorized immediately.

(Secs. 831-835 of Title 18, United States Code, sec. 9 of the Department of Transportation Act, 49 U.S.C. 1657; title VI sec. 902(h), Federal Aviation Act of 1958, U.S.C. 1421-1430, 1472, 1655(e).)

Issued in Washington, D.C. on February 12, 1973.

JAMES F. RUDOLPH,
Board Member for the
Federal Aviation Administration.

KENNETH L. PIERSON,
Alternate Board Member for the
Federal Highway Administration.

MAC E. ROGERS,
Board Member for the
Federal Railroad Administration.

W. F. REA, III,
Rear Admiral, Board Member for the
U.S. Coast Guard.

[FR Doc. 73-3317 Filed 2-26-73; 8:45 am]