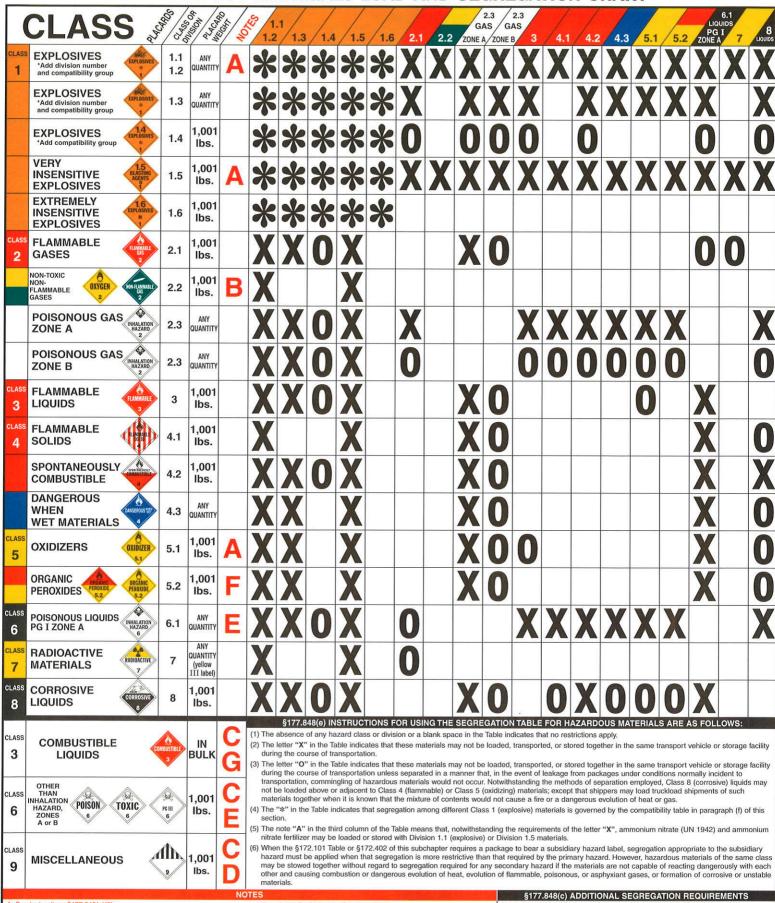
HAZARDOUS MATERIALS LOAD AND SEGREGATION CHART



A. See instructions §177.848(e)(5)

- B. For domestic transportation of oxygen, compressed or oxyg liquid, the oxygen placard may be used in place of NON-FLAMMABLE GAS placard (§172.504(f)(7)).
- C. No applicable segregation restrictions in §177.848(d).
- D. For domestic transportation, a Class 9 placard is not required. A bulk packaging containing a Class 9 material must be marked with the appropriate identification number displayed on a Class 9 placard, an orange panel or a white square-on-point display configuration as req
- by subpart D of this part (§172.504(f)(9)).

 Packages with POISON or POISON INHALATION HAZARD labels, or a POISON label displaying "PG III" or "PG III" marked next to a POISON label may not be transported with foodstuffs, feed or any other edible
 - material, intended for humans or animals. For ex F. Placard any quantity of a 5.2, ORGANIC PEROXIDE, TYPE B, LIQUID OF SOLID, TEMPERATURE CONTROLLED.
- G. No placard is required for combustible liquids in non-bulk packages (119

In addition to the provisions of paragraph (d) of this section and except as provided in §173.12(e) of this subchapter, cyanides, cyanide mixtures or solutions may not be stored, loaded and transported with acids: Division 4.2 materials may not be stored, loaded and transported with Class 8 liquids; and Division 6.1 Packing Group I, Hazard Zone A material may not be stored, loaded and transported with Class 3 material, Class 8 liquids, and Division 4.1, 4.2, 4.3, 5.1 or 5.2 material

See §173.12(e) for segregation exceptions for waste materials

HAZARDOUS MATERIALS LOAD AND SEGREGATION CHART

COMPATIBILITY TABLE FOR CLASS 1 (EXPLOSIVE) MATERIALS													
COMPATIBILITY GROUP	Α	В	С	D	E	F	G	н	J	К	L	N	s
Α		Х	Х	Х	Х	Х	Х	х	Х	Х	Х	Х	х
В	X		Х	X (4)	Х	Х	х	Х	Х	Х	х	Х	4/5
С	X	Х		2	2	Х	6	Х	Х	Х	Х	3	4/5
D	Х	X (4)	2		2	Х	6	Х	х	Х	Х	3	4/5
E	Х	Х	2	2		Х	6	Х	Х	Х	Х	3	4/5
F	X	Х	Х	Х	Х		х	Х	Х	Х	Х	Х	4/5
G	Х	Х	6	6	6	Х		Х	Х	Х	Х	Х	4/5
н	X	Х	Х	Х	Х	Х	Х		х	Х	Х	Х	4/5
J	X	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	4/5
к	X	Х	Х	Х	Х	Х	х	Х	х		Х	Х	4/5
L	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	1	Х	х
N	X	х	3	3	3	Х	Х	Х	х	Х	Х		4/5
s	X	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	Х	4/5	

§177.848

- (g) Instructions for using the compatibility table for Class 1 (explosive) materials are as follows:
- (1) A blank space in the Table indicates that no restrictions apply.
- (2) The letter "X" in the Table indicates that explosives of different compatibility groups may not be carried on the same transport vehicle.
- (3) The numbers in the Table mean the following:
- (i) "1" means an explosive from compatibility group L shall only be carried on the same transport vehicle with an identical explosive.
- (ii) "2" means any combination of explosives from compatibility groups C, D, or E is assigned to compatibility group E.
- (iii) "3" means any combination of explosives from compatibility groups C, D, or E with those in compatibility group N is assigned to compatibility group D.
- (iv) "4" means 'see §177.835(g)' when transporting detonators.
- (v) "5" means Division 1.4S fireworks may not be loaded on the same transport vehicle with Division 1.1 or 1.2 (explosive) materials.
- (vi) "6" means explosive articles in compatibility group G, other than fireworks and those requiring special handling, may be loaded, transported and stored with other explosive articles of compatibility groups C, D and E, provided that explosive substances (such as those not contained in articles) are not carried in the same vehicle.
- (h) Except as provided in paragraph (i) of this section, explosives of the same compatibility group but of different divisions may be transported together provided that the whole shipment is transported as though its entire contents were of the lower numerical division (i.e., Division 1.1 being lower than Division 1.2). For example, a mixed shipment of Division 1.2 (explosive) materials and Division 1.4 (explosive) materials and Division 1.4 (explosive) materials
- (i) When Division 1.5 materials, compatibility group D, are transported in the same freight container as Division 1.2 (explosive) materials, compatibility group D, the shipment must be transported as Division 1.1 (explosive) materials, compatibility group D.

ORM-D

CLASS 1 EXPLOSIVE PLACARDS DIVISIONS DIVISION 1.4

DIVISIONS 1.1, 1.2 & 1.3



The Division number and compatibility group are printed in black ink where the * is shown. Placard any quantity of Division 1.1, 1.2 or 1.3 material.

* Division Numbers and Compatibility Group

1.1A	1.2B	1.2L
1.1B	1.2C	1.3C
1.1C	1.2D	1.3F
1.1D	1.2E	1.3G
1.1E	1.2F	1.3H
1.1F	1.2G	1.3J
1.1G	1.2H	1.3K
1.1J	1.2J	1.3L
1.1L	1.2K	

1.4
EXPLOSIVES
*
1

The compatibility group is printed in black ink, where the * is shown.

Placard 454 kg. (1,001 lbs.) or more of 1.4 Explosives.

* Compatibility Group

B C D E F G S

DIVISION 1.5



The compatibility group is D. Placard 454 kg, (1,001 lbs.) or more of 1.5 Blasting Agents.

DIVISION 1.6



The compatibility group is N. Placard 454 kg, (1,001 lbs.) or more of 1.6 Explosives.

PLACARDS NOT REQUIRED FOR:

- 1. Infectious substances (Division 6.2).
- 2. Combustible liquids in non-bulk packagings.
- 3. ORM-D materials
- 4. Limited quantities when identified on papers.
- 5. Radioactive (Class 7) I or II labels.
- 6. Small quantities per §173.4.
- 7. Excepted quantities per §173.4a.
- 8. Class 9 materials in domestic transport.
- 9. Materials prepared per §173.13.

DANGEROUS PLACARD FOR MIXED LOADS

Placard 454 kg (1,001 lbs.) gross weight of two or more categories of hazardous materials listed in Table 2. A freight container, unit load device, transport vehicle, or rail car which contains nonbulk packages with two or more categories of hazardous materials that require different placards, as specified in Table 2, may be placarded with a DANGEROUS placard instead of the separate placarding specified for each of the materials in Table 2. However, when 1,000 kg (2,205 pounds) aggregate gross weight or more of one category of material is loaded therein at one loading facility on a freight container, unit load device, transport vehicle, or rail car, the placard specified in Table 2 for that category must be applied.

Division 1.4
Division 1.5
Division 1.6
Division 2.1
Division 2.2
Class 3
Combustible liquid
Division 4.1



Division 4.2
Division 5.1
Division 5.2, other than Type B, liquid or solid, temperature controlled
Division 6.1, other than material poisonous by inhalation
Class 8
Class B

§172.504(g) COMPATIBILITY GROUP LETTER \$172.505 PLACARDING FOR SUBSIDIARY HAZARDS

INHALATION

HAZARD

CORROSIVE

INHALATION

HAZARD

DANGEROUS WHE

For shipments of Class 1 (explosive materials) by aircraft or vessel, the applicable compatibility group letter must be displayed on the placards, or labels when applicable, required by this section. When more than one compatibility group placard is required for Class 1 materials, only one placard is required to be displayed, as provided in paragraphs (g)(1) through (g)(4) of this section. For the purposes of paragraphs (g)(1) through (g)(4), there is a distinction between the phrases explosive articles and explosive substances. Explosive article means an article containing an explosive substance; examples include a detonator, flare, primer or fuse. Explosive substance means a substance contained in a packaging that is not contained in an article; examples include black powder and smokeless powder.

 Explosive articles of compatibility groups C, D or E may be placarded displaying compatibility group E.

(2) Explosive articles of compatibility groups C, D, or E, when transported with those in compatibility group N, may be placarded displaying compatibility group D.



- (3) Explosive substances of compatibility groups C and D may be placarded displaying compatibility group D.
- (4) Explosive articles of compatibility groups C, D, E or G, except for fireworks, may be placarded displaying compatibility group E.

(a) Each transport vehicle, freight container, portable tank, unit load device, or rail car that contains a poisonous material subject to the "Poison Inhalation Hazard" shipping description of §172.203(m) must be placarded with a POISON INHALATION HAZARD or POISON GAS placard, as appropriate, on each side and each end, in addition to any other placard required for that material in §172.504. Duplication of the POISON INHALATION HAZARD or POISON GAS placard is not required.

Class 9

- (b) In addition to the RADIOACTIVE placard which may be required by §172.504(e) of this subpart, each transport vehicle, portable tank or freight container that contains 454 kg (1,001 pounds) or more gross weight of fissile or low specific activity uranium hexafluoride shall be placarded with a CORROSIVE placard on each side and each end.
- (c) Each transport vehicle, portable tank, freight container or unit load device that contains a material which has a subsidiary hazard of being dangerous when wet, as defined in §173.124 of this subchapter, shall be placarded with DANGEROUS WHEN WET placards, on each side and each end, in addition to the placards required by §172.504.
- (d) Hazardous materials that possess secondary hazards may exhibit subsidiary placards that correspond to the placards described in this part, even when not required by this part (see also §172.519(b)(4) of this subpart).