

























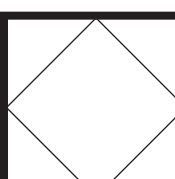




HAZARDOUS MATERIALS PLACARDING CHART

<p>CLASS 1</p>  <p>EXPLOSIVES 1.1, 1.2, & 1.3 *The Division number 1.1, 1.2 or 1.3 and compatibility group are in black ink. Placard any quantity of Division number 1.1, 1.2 or 1.3 material.</p>	<p>CLASS 1</p>  <p>EXPLOSIVES 1.4 *The compatibility group is in black ink. Placard 454 kg (1,001 lb) or more of 1.4 Explosives.</p>	<p>CLASS 1</p>  <p>EXPLOSIVES 1.5 *The compatibility group is in black ink. Placard 454 kg (1,001 lb) or more of 1.5 Blasting Agents.</p>	<p>CLASS 1</p>  <p>EXPLOSIVES 1.6 *The compatibility group is in black ink. Placard 454 kg (1,001 lb) or more of 1.6 Explosives.</p>	<p>CLASS 2</p>  <p>OXYGEN Placard 454 kg (1,001 lb) or more aggregate gross weight of either oxygen compressed or oxygen, refrigerated liquid. See §172.504(f)(7).</p>
<p>CLASS 2 Division 2.1</p>  <p>FLAMMABLE GAS Placard 454 kg (1,001 lb) or more of flammable gas. See DANGEROUS.</p>	<p>CLASS 2 Division 2.2</p>  <p>NON-FLAMMABLE GAS Placard 454 kg (1,001 lb) or more aggregate gross weight of non-flammable gas. See DANGEROUS.</p>	<p>CLASS 2 Division 2.3</p>  <p>POISON GAS Placard any quantity of poisonous by inhalation material.</p>	<p>CLASS 3</p>  <p>FLAMMABLE Placard 454 kg (1,001 lb) or more gross weight of flammable liquid. See DANGEROUS.</p>	<p>CLASS 3</p>  <p>GASOLINE May be used in the place of FLAMMABLE on a placard displayed on a cargo tank or a portable tank being used to transport gasoline by highway. See §172.542(c).</p>
<p>CLASS 3</p>  <p>COMBUSTIBLE Placard a combustible liquid when transported in bulk. A FLAMMABLE placard may be used in place of a Combustible placard on a cargo tank or portable tank or a compartmented tank car which contains both flammable and combustible liquids. See §172.504(f)(2).</p>	<p>CLASS 3</p>  <p>FUEL OIL May be used in place of COMBUSTIBLE on a placard displayed on a cargo tank or portable tank being used to transport by highway fuel oil not classed as a flammable liquid. See §172.544(c).</p>	<p>CLASS 4 Division 4.1</p>  <p>FLAMMABLE SOLID Placard 454 kg (1,001 lb) or more gross weight of flammable solid. See DANGEROUS.</p>	<p>CLASS 4 Division 4.2</p>  <p>SPONTANEOUSLY COMBUSTIBLE Placard 454 kg (1,001 lb) or more gross weight of spontaneously combustible material. See DANGEROUS.</p>	<p>CLASS 4 Division 4.3</p>  <p>DANGEROUS WHEN WET MATERIAL Placard any quantity of dangerous when wet material.</p>
<p>CLASS 5 Division 5.1</p>  <p>OXIDIZER Placard 454 kg (1,001 lb) or more gross weight of oxidizing material. See DANGEROUS.</p>	<p>CLASS 5 Division 5.2</p>  <p>ORGANIC PEROXIDE Placard 454 kg (1,001 lb) or more gross weight of organic peroxide. See DANGEROUS. Placard any quantity of 5.2, ORGANIC PEROXIDE, TYPE B, LIQUID OR SOLID, TEMPERATURE CONTROLLED.</p>	<p>CLASS 6 Division 6.1 Inhalation Hazard</p>  <p>POISON INHALATION HAZARD Placard any quantity of poisonous by Inhalation material.</p>	<p>CLASS 6 Division 6.1 Other Than Inhalation Hazard</p>  <p>POISON Placard 454 kg (1,001 lb) or more gross weight of poison. See DANGEROUS. See TOXIC and PG III placards.</p>	<p>CLASS 6 Division 6.1 Other Than Inhalation Hazard</p>  <p>TOXIC Placard 454 kg (1,001 lb) or more gross weight of poison. See DANGEROUS. The word "TOXIC" is allowed to be used in place of the word "POISON."</p>
<p>CLASS 6 Division 6.1 Other Than Inhalation Hazard</p>  <p>PACKING GROUP III Placard 454 kg (1,001 lb) or more gross weight of Packing Group III. See DANGEROUS. The text "PG III" is allowed to be used in place of the word "POISON."</p>	<p>CLASS 7</p>  <p>RADIOACTIVE Placard any quantity of packages bearing the RADIOACTIVE YELLOW III label; unpackaged LSA-I or SCO-I shipments; exclusive use shipments per §§173.427, 173.441, 173.457; and closed vehicles per §173.443(d).</p>	<p>CLASS 8</p>  <p>CORROSIVE Placard 454 kg (1,001 lb) or more gross weight of corrosive material. See DANGEROUS.</p>	<p>CLASS 9</p>  <p>MISCELLANEOUS A Class 9 placard is not required. However, you may placard 454 kg (1,001 lb) or more gross weight of a material which presents a hazard during transport, but which is not included in any other hazard class. See DANGEROUS.</p>	<p>SUBSIDIARY RISK</p>  <p>NUMBERED</p>
<p>DANGEROUS</p>  <p>Placard 454 kg (1,001 lb) 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 lb) 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.</p>	<p style="text-align: center;">SQUARE BACKGROUND</p>  <p>The white square background is required for the following placards when on rail cars: EXPLOSIVES 1.1 or 1.2; POISON GAS (Division 2.3, Hazard Zone A); POISON INHALATION HAZARD (Division 6.1, PG I, Hazard Zone A) and for DOT 113 tank cars FLAMMABLE GAS. The white square background is required for placards on motor vehicles transporting highway route controlled quantities of Class 7 materials.</p>		<p style="text-align: center;">DISPLAY OF IDENTIFICATION NUMBER</p>  <p>The display of an identification number on a placard is allowed, except for Class 1, Class 7, DANGEROUS, or subsidiary hazard placards.</p>  <p>For a COMBUSTIBLE placard used to display an identification number, the entire background below the identification number must be white for transportation by rail and may be white for transportation by highway.</p>	

HAZARDOUS MATERIALS PLACARDING CHART

§172.502 Prohibited and permissive placarding.

- (a) *Prohibited placarding.* Except as provided in paragraph (b) of this section, no person may affix or display on a packaging, freight container, unit load device, motor vehicle or rail car —
 - (i) Any placard described in this subpart unless —
 - (I) The material being offered or transported is a hazardous material;
 - (II) The placard represents a hazard of the hazardous material being offered or transported; and
 - (III) Any placarding conforms to the requirements of this subpart.
 - (ii) Any sign, advertisement, slogan (such as "Drive Safely"), or device that, by its color, design, shape or content, could be confused with any placard prescribed in this subpart.
- (b) *Exceptions.* (1) The restrictions in paragraph (a) of this section do not apply to a bulk packaging, freight container, unit load device, transport vehicle or rail car which is placarded in conformance with TDG Regulations, the IMDG Code or the UN Recommendations (IBR, see §171.7 of this subchapter).
- (2) The restrictions of paragraph (a) of this section do not apply to the display of a BIOHAZARD marking, a "HOT" marking, a sour crude oil hazard marking, or an identification number on a white square-on-point configuration in accordance with §§172.323(c), 172.325(c), 172.327(a), or 172.336(b) of this part, respectively.
- (c) *Permissive placarding.* Placards may be displayed for a hazardous material, even when not required, if the placarding otherwise conforms to the requirements of this subpart.

§172.504 General placarding requirements.

- (a) *General.* Except as otherwise provided in this subchapter, each bulk packaging, freight container, unit load device, transport vehicle or rail car containing any quantity of a hazardous material must be placarded on each side and each end with the type of placards specified in Tables 1 and 2 of this section and in accordance with other placarding requirements of this subpart, including the specifications for the placards named in the tables and described in detail in §§172.519 through 172.560.
- (b) *DANGEROUS placard.* A freight container, unit load device, transport vehicle, or rail car which contains non-bulk packages with two or more categories of hazardous materials that require different placards specified in Table 2 of paragraph (e) of this section may be placarded with a DANGEROUS placard instead of the separate placarding specified for each of the materials in Table 2 of paragraph (e) of this section. 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 of paragraph (e) of this section for that category must be applied.
- (c) *Exception for less than 454 kg (1,001 pounds).* Except for bulk packagings and hazardous materials subject to §172.505, when hazardous materials covered by Table 2 of this section are transported by highway or rail, placards are not required on—
 - (1) A transport vehicle or freight container which contains less than 454 kg (1001 pounds) aggregate gross weight of hazardous materials covered by Table 2 of paragraph (e) of this section; or
 - (2) A rail car loaded with transport vehicles or freight containers, none of which is required to be placarded.
 The exceptions provided in paragraph (c) of this section do not prohibit the display of placards in the manner prescribed in this subpart, if not otherwise prohibited (see §172.502), on transport vehicles or freight containers which are not required to be placarded.
- (d) *Exception for empty non-bulk packages.* Except for hazardous materials subject to §172.505, a non-bulk packaging that contains only the residue of a hazardous material covered by Table 2 of paragraph (e) of this section need not be included in determining placarding requirements.
- (e) *Placarding tables.* Placards are specified for hazardous materials in accordance with the following tables:

TABLE 1

Category of material (Hazard class or division number and additional description, as appropriate)	Placard name	Placard design section reference (§)
1.1.....	EXPLOSIVES 1.1.....	172.552
1.2.....	EXPLOSIVES 1.2.....	172.522
1.3.....	EXPLOSIVES 1.3.....	172.522
2.3.....	POISON GAS.....	172.540
4.3.....	DANGEROUS WHEN WET.....	172.548
5.2 (Organic peroxide, Type B, liquid or solid, temperature controlled).....	ORGANIC PEROXIDE.....	172.552
6.1 (material poisonous by inhalation (see §171.8 of this subchapter)).....	POISON INHALATION HAZARD.....	172.555
7 (Radioactive Yellow III label only).....	RADIOACTIVE 1.....	172.556

¹ RADIOACTIVE placards are also required for: All shipments of unpackaged LSA-I material or SCO-I; all shipments required by §§173.427, 173.441, and 173.457 of this subchapter to be operated under exclusive use; and all closed vehicles used in accordance with §173.443(d).

TABLE 2

Category of material (Hazard class or division number and additional description, as appropriate)	Placard name	Placard design section reference (§)
1.4.....	EXPLOSIVES 1.4.....	172.523
1.5.....	EXPLOSIVES 1.5.....	172.524
1.6.....	EXPLOSIVES 1.6.....	172.525
2.1.....	FLAMMABLE GAS.....	172.532
2.2.....	NON-FLAMMABLE GAS.....	172.528
3.....	FLAMMABLE.....	172.542
Combustible liquid.....	COMBUSTIBLE.....	172.544
4.1.....	FLAMMABLE SOLID.....	172.546
4.2.....	SPONTANEOUSLY COMBUSTIBLE.....	172.547
5.1.....	OXIDIZER.....	172.550
5.2 (Other than organic peroxide, Type B, liquid or solid, temperature controlled).....	ORGANIC PEROXIDE.....	172.552
6.1 (other than material poisonous by inhalation).....	POISON.....	172.554
6.2.....	(None).....
8.....	CORROSIVE.....	172.558
9.....	CLASS 9 (see §172.504(f)(9)).....	172.560
ORM-D.....	(None).....

- (f) *Additional placarding exceptions.* (1) When more than one division placard is required for Class 1 materials on a transport vehicle, rail car, freight container or unit load device, only the placard representing the lowest division number must be displayed.
- (2) A FLAMMABLE placard may be used in place of a COMBUSTIBLE placard on —
 - (i) A cargo tank or portable tank.
 - (ii) A compartmented tank car which contains both flammable and combustible liquids.
- (3) A NON-FLAMMABLE GAS placard is not required on a transport vehicle which contains non-flammable gas if the transport vehicle also contains flammable gas or oxygen and it is placarded with FLAMMABLE GAS or OXYGEN placards, as required.
- (4) OXIDIZER placards are not required for Division 5.1 materials on freight containers, unit load devices, transport vehicles or rail cars which also contain Division 1.1 or 1.2 materials and which are placarded with EXPLOSIVES 1.1 or 1.2 placards, as required.
- (5) For transportation by transport vehicle or rail car only, an OXIDIZER placard is not required for Division 5.1 materials on a transport vehicle, rail car or freight container which also contains Division 1.5 explosives and is placarded with EXPLOSIVES 1.5 placards, as required.
- (6) The EXPLOSIVE 1.4 placard is not required for those Division 1.4 Compatibility Group S (1.4S) materials that are not required to be labeled 1.4S.
- (7) For domestic transportation of oxygen, compressed or oxygen, refrigerated liquid, the OXYGEN placard in §172.530 of this subpart may be used in place of a NON-FLAMMABLE GAS placard.
- (8) For domestic transportation, a POISON INHALATION HAZARD placard is not required on a transport vehicle or freight container that is already placarded with the POISON GAS placard.
- (9) For Class 9, a CLASS 9 placard is not required for domestic transportation, including that portion of international transportation, defined in §171.8 of this subchapter, which occurs within the United States. However, a bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required by subpart D of this part.
- (10) For Division 6.1, PG III materials, a POISON placard may be modified to display the text "PG III" below the mid line of the placard.
- (11) For domestic transportation, a POISON placard is not required on a transport vehicle or freight container required to display a POISON INHALATION HAZARD or POISON GAS placard.
- (g) 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.
 - (1) 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.

See §172.505 for placarding subsidiary hazards.