

HAZARDOUS MATERIALS CHART

TABLE 1 CATEGORIES

CLASS DIVISION	LABEL	WEIGHT	PLACARD	REMARKS
1.1 1.2 1.3		Any Quantity		Divisions 1.1, 1.2 and 1.3 will appear on label in place of (***) and on placard in place of (*). Mixed loads of Division 1.1 and 1.2 Explosives, use Division 1.1 placard.
2.3		Any Quantity		Division 2.3 materials.
4.3		Any Quantity		Division 4.3 materials. Keep dry in transit. Do not use water for fire or other emergencies.
5.2		Any Quantity		Organic peroxide, Type B, liquid or solid, temperature controlled.
6.1		Any Quantity		Division 6.1, material poisonous by inhalation.
7		Any Quantity		Uranium hexafluoride must be placarded RADIOACTIVE (any quantity) and CORROSIVE (1,001 lb or more).

CHECKLIST FOR DRIVERS

Shipping Papers:

- Hazardous materials must be listed first OR entered in a contrasting color OR indicated by an "X" in an HM Column.
- Each basic description must be shown in order: identification number, proper shipping name, hazard class or division numbers (including subsidiary), and packing group. Total quantity must be indicated by weight/volume/activity. Number and type of packages must be indicated.
- Certification must be shown and signed by shipper manually or by mechanical means. Hazardous substances - letters "TD" required before or after basic description. "TD" can be substituted for "X" in HM Column.
- Poison Inhalation materials require the words: "POISON-INHALATION HAZARD" or "TOXIC-INHALATION HAZARD" and the appropriate zone after the description.
- N.O.S. and other generic descriptions must display technical name(s) of material(s) in parenthesis in association with basic description.

Packaging Marking: Shipper Responsibility

- Must show proper shipping name, identification number, name and address of shipper or consignee. Liquids in inner packaging - orientation arrows. If, for certain materials "Inhalation Hazard," for certain materials "PG III" when next to a POISON label.
- A "Limited Quantity" will be marked with the square-on-point limited quantity marking. Packages meeting requirements for air transport will be marked with the square-on-point "Y" limited quantity marking.
- Must be durable, in English, printed or affixed to packaging; in contrasting color; unobscured; away from other markings.

Labels: Shipper Responsibility

- Securely affixed to package, near proper shipping name; unobscured by markings.
- Represent hazard class or division (check on shipping paper). Multiple labels are required in special cases.
- No labels required for "Limited Quantity" shipments, except for air transport and for poison-by-inhalation materials.

Placards:

- Provided by shipper for category of material offered, unless already on unit.
- Represent category of material (See red and blue shaded areas).
- On 4 sides of vehicle. Front placard may be on power unit or cargo body. Wording must read horizontally, left to right. Wording is optional except for Class 7, Dangerous, and Oxygen (when identification number is not displayed) placards.
- Unobstructed view, at least 3 inches from other marking, lettering, or display. Multiple placards must be near each other.
- Must be changed if HM load changes, and removed if HM not on board.
- You must display all required for HM load, before moving vehicle.

Identification Numbers:

- Required on bulk packages (such as cargo tanks, portable tanks, or IBCs) or vans carrying these bulk packages.
- Required on vehicle or freight container loaded at one facility with 8,820 kg (4,000 kg) or more of non-bulk packages all having the same shipping name and ID number, and no other material (hazardous or non-hazardous) is on board.
- Required on vehicle or freight container loaded at one facility with 2,205 kg (1,000 kg) or more of non-bulk packages containing material that is poisonous by inhalation (Hazard Zone A or B), having the same proper shipping name and identification number.

In Transit:

- HM shipping papers must be visible in your cab or in a pouch on your door; within reach with seat belt on; clearly distinguishable from other documentation (tabbed or appear first).
- No smoking when transporting Class 1, Class 3, Class 4, and Division 2.1, or Class 5.
- Before leaving vehicle secure against movement. Place HM shipping papers on your seat or in a pouch on your door.

TABLE 2 CATEGORIES

CLASS DIVISION	LABEL	WEIGHT	PLACARD	REMARKS
1.4 1.5 1.6		1,001 Pounds or More		Division 1.4 or 1.5 placard not needed on vehicle already placarded Division 1.1 or 1.2. Division 1.4 placard not needed for compatibility group "B" (1.4B) materials not requiring labels. Compatibility group, when required, will be shown in place of (*).
2.2		1,001 Pounds or More		Not required on a vehicle when a FLAMMABLE GAS or OXYGEN placard is already displayed. OXYGEN placards may be used in place of NON-FLAMMABLE GAS placards for domestic shipments of Oxygen compressed or Oxygen refrigerated liquid.
3		1,001 Pounds or More		May be used in place of COMBUSTIBLE placards on cargo tanks and portable tanks.
Comb liq	NONE	More than 119 Gallons.		Combustible liquid. No placards required for containers 119 gallons or less. Domestic transportation only.
5.1		1,001 Pounds or More		Not required on a vehicle already placarded Division 1.1, 1.2 or 1.5.
6.1		1,001 Pounds or More		Division 6.1, other than material poisonous by inhalation. "TOXIC" may be used in place of "POISON". "PG III" may be used in place of "POISON" for Packing Group III material.
6.2		NONE	NONE	Division 6.2 materials.
2.1		1,001 Pounds or More		Division 2.1 materials.
4.1		1,001 Pounds or More		Division 4.1 materials.
4.2		1,001 Pounds or More		Division 4.2 materials.
5.2		1,001 Pounds or More		Other than Organic peroxide, Type B, liquid or solid, temperature controlled.
8		1,001 Pounds or More		Class 8 materials.
9		1,001 Pounds or More		Placards are not required for domestic shipments of Class 9 materials.

MIXED LOADS

- When the total weight of two or more materials from the blue shaded area above is 1,001 lb (454 kg) or more, a DANGEROUS placard may be used. If 2,205 lb (1,000 kg) or more of any one category of material is loaded at one location, use its placard as shown above along with either a dangerous placard or the placard(s) for the other materials.
- The placard for each "any quantity" material (red shaded area in upper left) in a mixed load must be displayed regardless of any other placards displayed.



PLACARDS NOT REQUIRED FOR:

- Infectious substances (Division 6.2).
- Combustible liquids in non-bulk packages.
- Class 2 materials.
- Limited quantities described on papers or marked per §172.101.
- Radioactive (Class 7) or 11 labels.
- Small quantities per §173.4.
- Excluded materials per §173.44.
- Class 9 materials in domestic transport.
- Materials prepared per §173.15.

2013 Fog Chart Hazmat Rules Study Guide

Mike Jess

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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assume a and b are orthogonal vectors

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