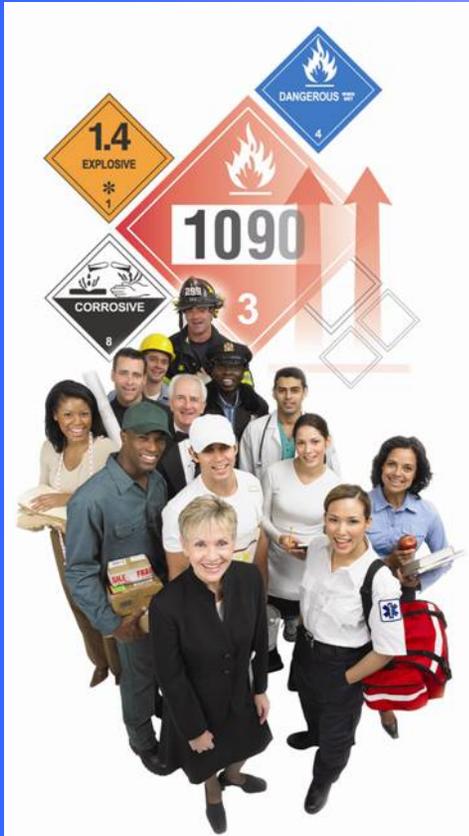




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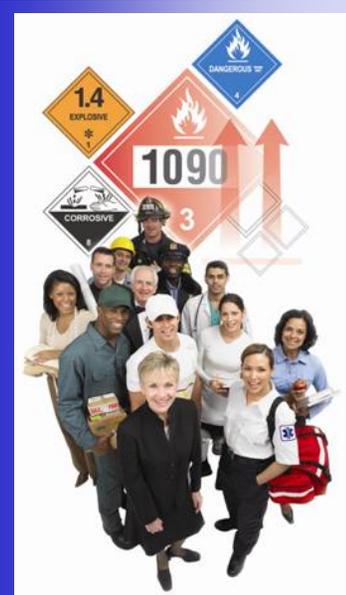


Hazardous Materials Transportation Placarding Requirements



U.S. Department
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Pipeline and
Hazardous Materials
Safety Administration



Placarding
Requirements

Placarding – Part 172 Subpart F

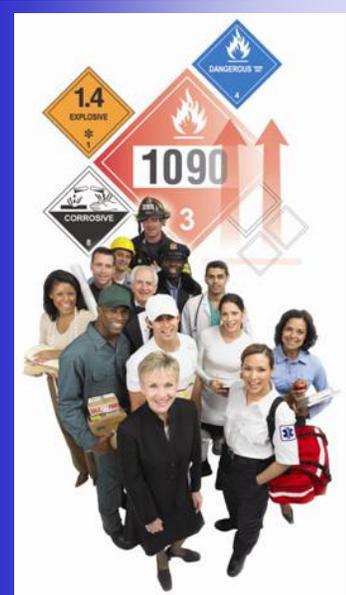
**Each person
who offers or
transports
hazardous
materials must
comply with
the placarding
requirements.**





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Placarding
Requirements

Placarding Requirements

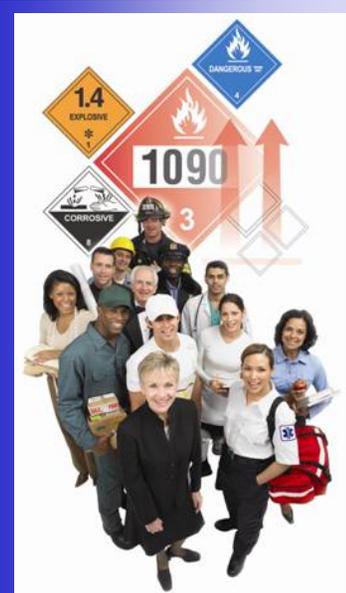
Placarding requirements *do not* apply to:

- **Small quantities of certain hazard classes**
- **Limited Quantities (Ltd. Qty.)**
- **Infectious substances**
- **Other Regulated Material (ORM-Ds)**
- **Combustible liquids in non-bulk packagings**
- **Materials prepared in accordance with 173.13**



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Placarding
Requirements

Prohibited Placarding

Placards *may not* be displayed on a transport vehicle, portable tank or freight container *unless*:

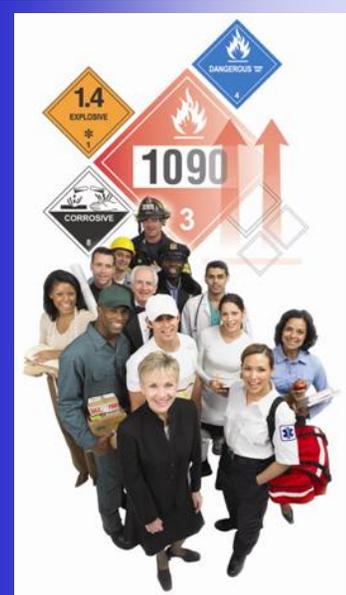
- Transported material is a hazardous material
- Placarding represents a hazard of the material
- Placarding conforms to the regulations





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Placarding
Requirements

General Placarding Requirements

Placard a container or vehicle on each side and each end for any quantity of hazardous material it contains.

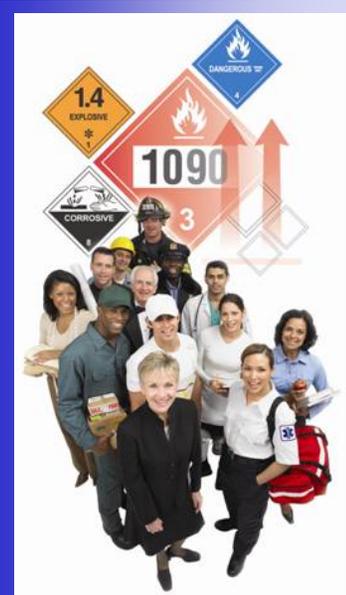
Some exceptions to these requirements exist based on the hazard and quantity present.





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Placarding
Requirements

ID Numbers

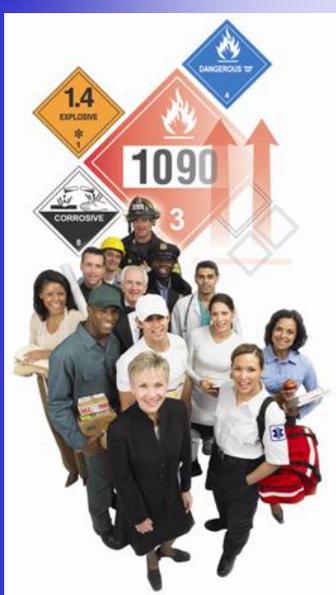
**Prohibited
placarding
restrictions *do
not apply* to ID
numbers
displayed on
white square-
on-point
placards.**





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Placarding
Requirements

Placarding Tables

Placarding Tables 172.504 (e)

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	172.522
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 placard also required for exclusive use shipments of low specific activity material and surface contaminated objects transported in accordance with § 173.427(b)(4) and (5) or (c) of this subchapter.

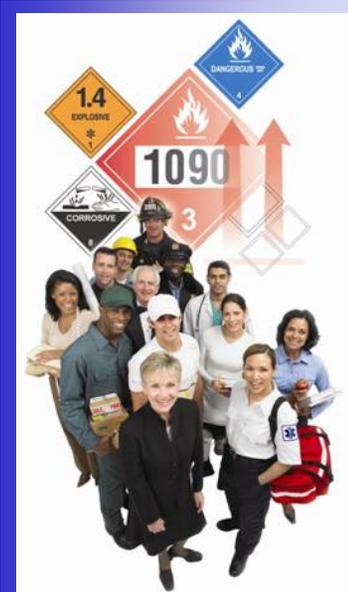
TABLE 2

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)	



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Placarding Requirements

Table 1 – Placard Any Quantity

Note specifics for Division 5.2, 6.1 and Class 7.

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	172.522
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 placard also required for exclusive use shipments of low specific activity material and surface contaminated objects transported in accordance with § 173.427(b)(4) and (5) or (c) of this subchapter.

4.3

5.2 (Organic peroxide, Type B, liquid or solid, temperature controlled).

6.1 (material poisonous by inhalation (see § 171.8 of this subchapter)).

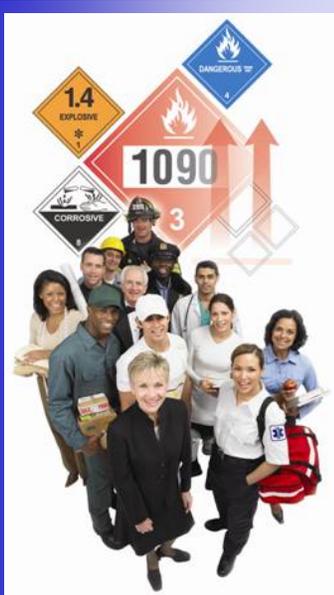
7 (Radioactive Yellow III label only)

§172.504(a)



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Placarding Requirements

Placard for Table 2 Materials (unless excepted)

454 kg (1,001 lbs.) aggregate gross weight or more must be placarded

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
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Combustible liquid	COMBUSTIBLE	172.544
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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 § 172.559)	172.560
ORM-D	(None)	

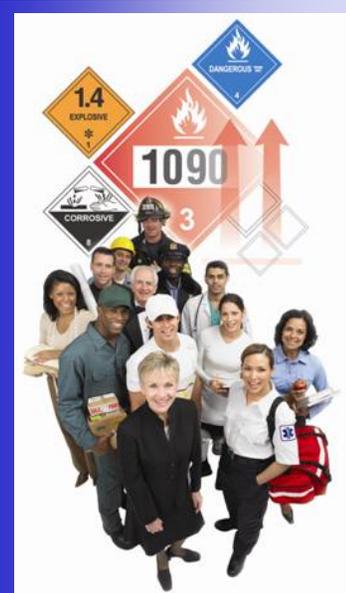


§172.504(a)



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Placarding
Requirements

Table 2 Exceptions

Less than 454 kg (1,001 lbs.) aggregate gross weight may be placarded, but is not required

TABLE 2

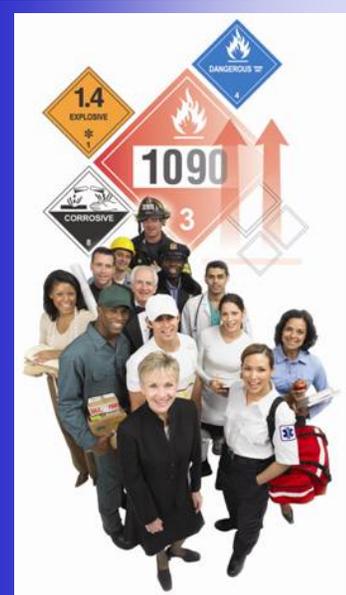
Category of material (Hazard class or division number and additional description, as appropriate)	Placard name	Placard design section reference (§)
1.4	EXPLOSIVES 1.4	172.523
1.5	EXPLOSIVES 1.5	172.524
1.6	EXPLOSIVES 1.6	172.525
2.1	FLAMMABLE GAS	172.532
2.2	NON-FLAMMABLE GAS	172.528
3	FLAMMABLE	172.542
Combustible liquid	COMBUSTIBLE	172.544
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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)

§172.504(c)



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Placarding
Requirements

Use of Dangerous Placard

The Dangerous Placard may be used if the shipment contains non-bulk packages of two or more classes, requiring different placards from Table 2.

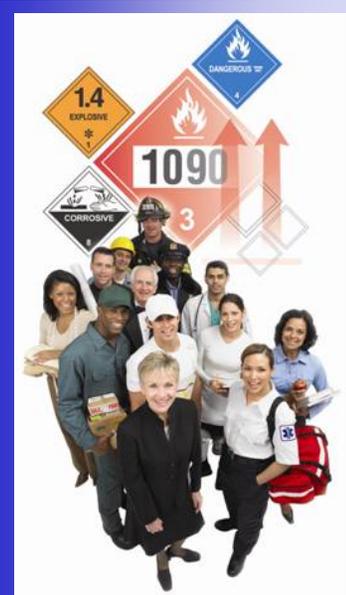


§172.504(b)



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Placarding
Requirements

Dangerous Placard Exception

- **1,000 kg (2,205 lbs) or more of one class from Table 2**
- **Loaded at one point**
- **Must use placard for that hazard class, not the Dangerous placard**

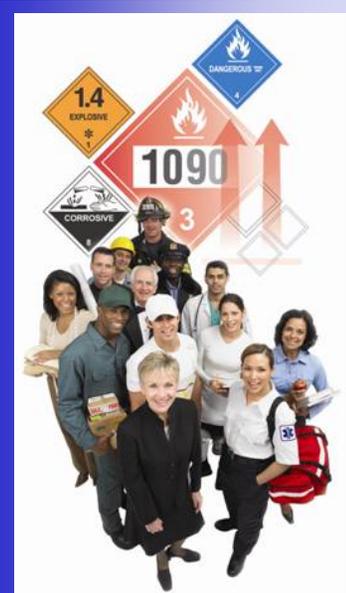


§172.504(b)



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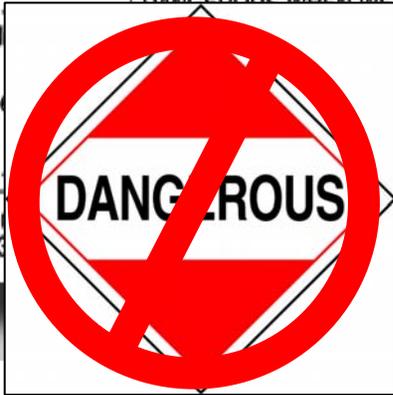
Placarding Requirements

Dangerous Placard is NOT allowed for Table 1

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	172.522
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 solution controlled).	172.552
6.1 (material poisonous by inhalation (see this subchapter)).	DANGEROUS	172.555
7 (Radioactive Yellow III label only)	172.556

¹ RADIOACTIVE placard also required for activity material and surface contaminated objects transported in accordance with § 173.504(b).

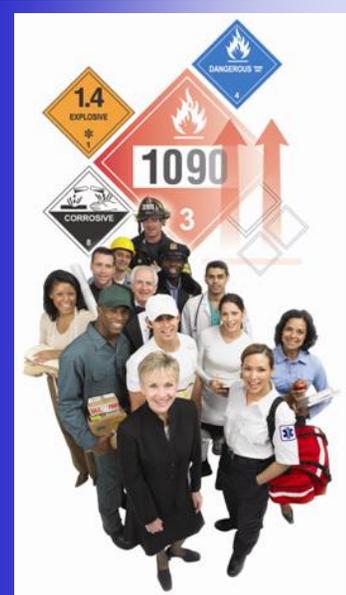


§172.504(b)



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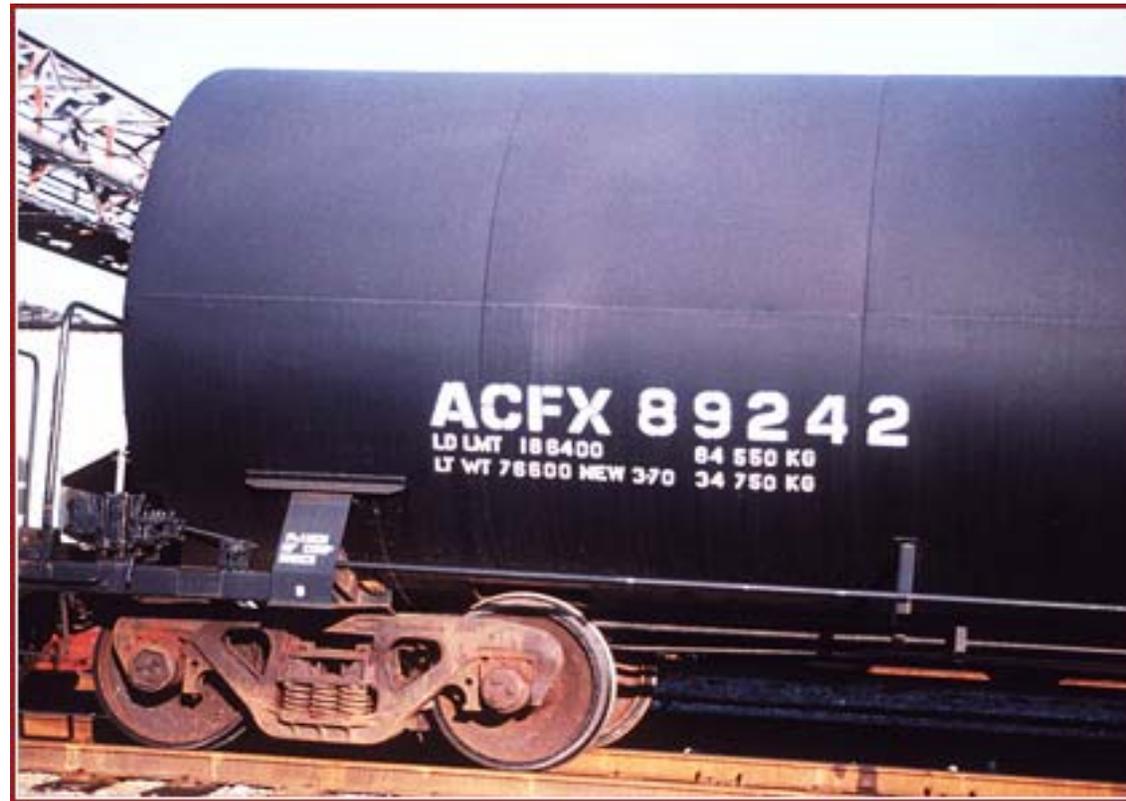
Pipeline and
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Placarding
Requirements

Bulk Exceptions

- **Tank cars -2 opposite sides**

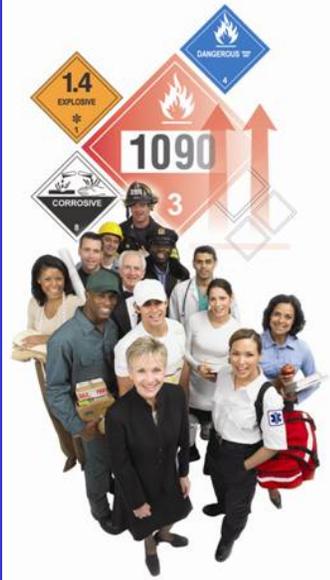


§172.514(c)(2)



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Placarding
Requirements

Bulk Exceptions (cont'd)

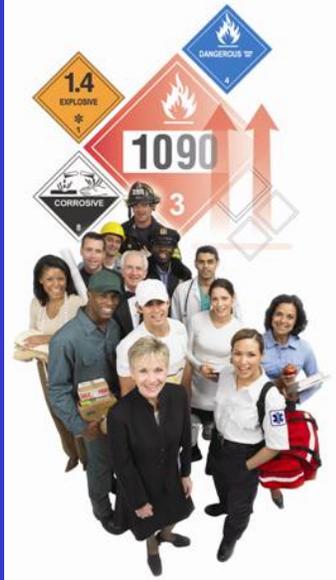
- Tank cars
- **Cargo tanks – nurse tanks**





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Placarding
Requirements

Bulk Exceptions (cont'd)

- Tank cars
- Cargo tanks
- **Portable tanks**

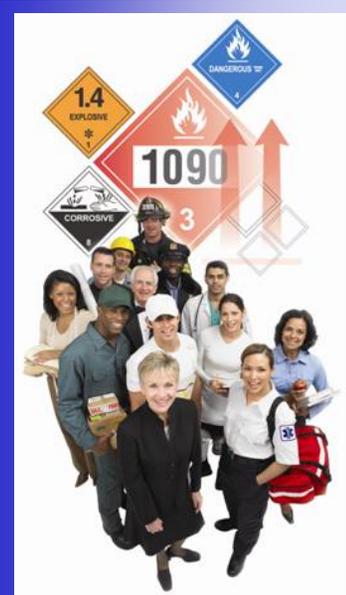


§172.514



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Placarding
Requirements

Bulk Exceptions (cont'd)

- Tank cars
- Cargo tanks
- Portable tanks
- **Other bulk packagings**

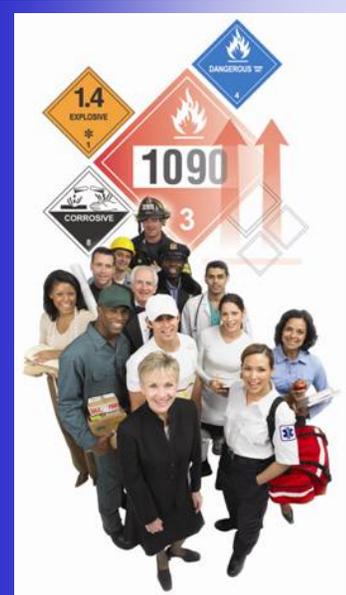


§172.514(c)



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Placarding
Requirements

Bulk Exceptions (cont'd)

- Tank cars
- Cargo tanks
- Portable tanks
- Other bulk packagings
- **Freight containers and Aircraft unit load devices**

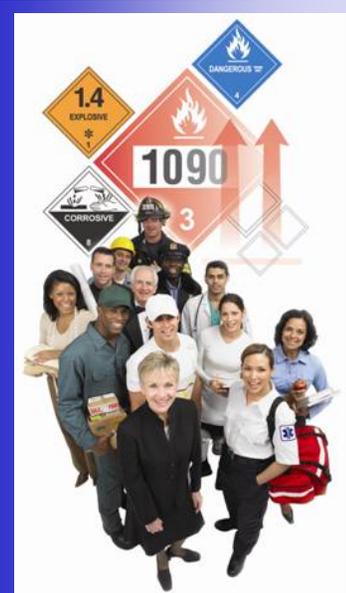


§172.512



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Placarding
Requirements

Other Exceptions

- Tank cars
- Cargo tanks
- Portable tanks
- Other bulk packagings
- Freight containers and aircraft unit load devices
- **Poison inhalation materials/poison gas**

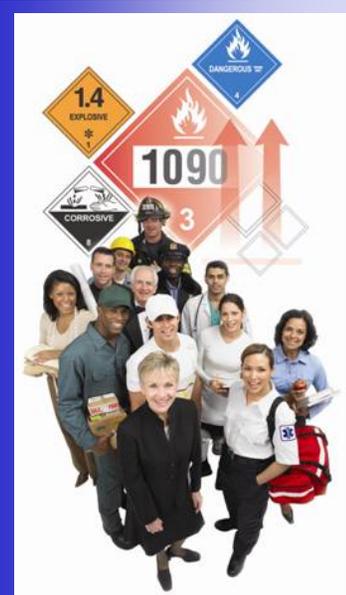


§172.505(a)



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Placarding
Requirements

Other Exceptions (cont'd)

- Tank cars
- Cargo tanks
- Portable tanks
- Other bulk packagings
- Freight containers and Aircraft unit load devices
- Poison inhalation material/poison gas
- **Dangerous when wet material**

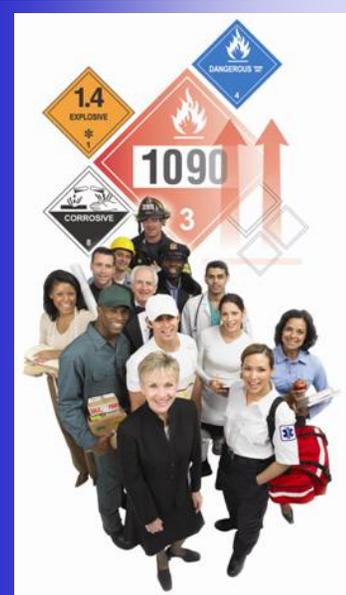


§172.505



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Placarding
Requirements

Placarding Empty or Unpurged Tanks

Tanks remain placarded unless:

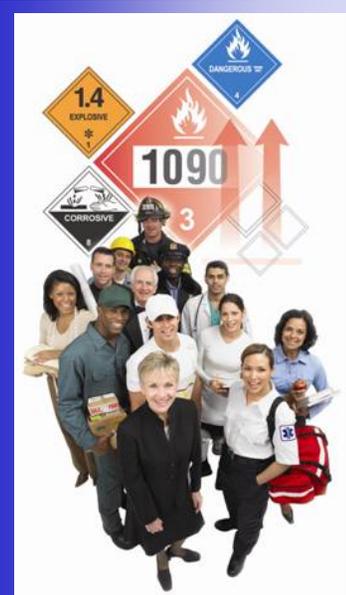
- **Cleaned and purged**
- **Reloaded with a non-hazardous material**
- **Another class of hazardous material**





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Placarding
Requirements

Visibility

Each placard must be readily visible from the direction it faces.

Placards must be on each side and each end.

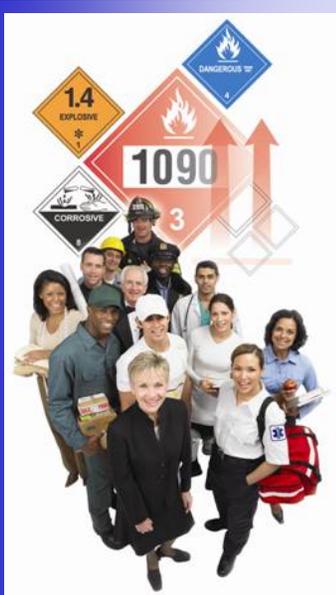
If coupled to another motor vehicle or rail car, visibility is not required from the direction it faces.





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Placarding
Requirements

Attaching Placards

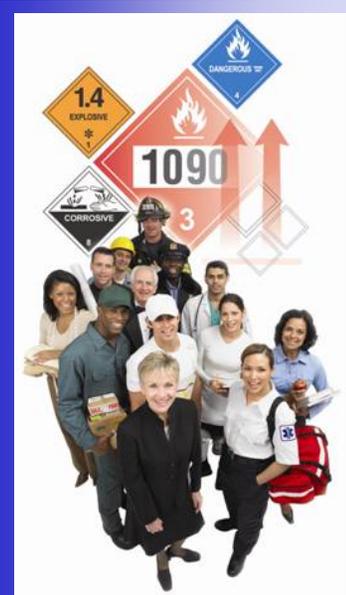
- Attach securely
- Maintain in good condition
- Clear of advertising, dirt and water, and tarps, etc.
- Printed and displayed horizontally





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Placarding
Requirements

Placarding – A Joint Responsibility

It is the responsibility of shipper or carrier to make sure the correct placards are offered or affixed.

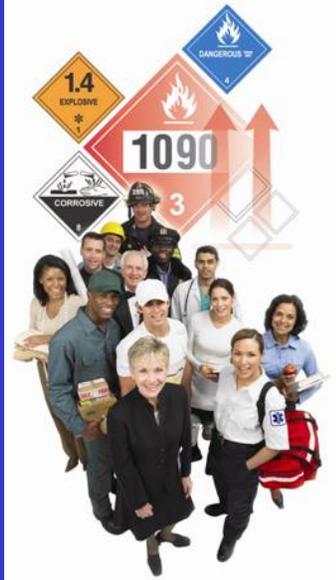
Since placarding is complex and crucial, do not rely solely on the information in this presentation.

Use the HMR and remember to refer to both placarding Table 1 and Table 2 and the exceptions in 172.504(f).



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Placarding
Requirements

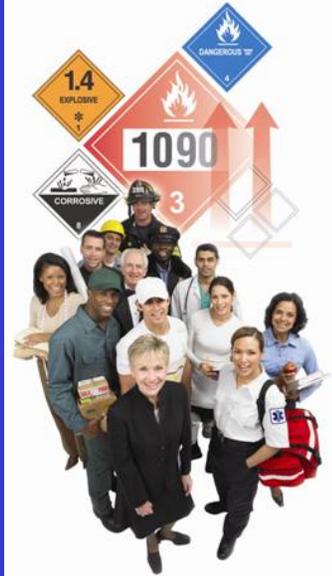
Summary





U.S. Department
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Pipeline and
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Safety Administration



Placarding
Requirements

Where to Find More Information . . .

PHMSA Office of Hazardous Materials Safety - Microsoft Internet Explorer

Address <http://hazmat.dot.gov/>

PHMSA Pipeline and Hazardous Materials Safety Administration

Office of Hazardous Materials Safety

Navigation Menu: RULES AND REGULATIONS | SPECIAL PERMITS & APPROVALS | TRAINING INFORMATION | PUBLICATIONS & REPORTS | E-HAZMAT ON-LINE PURCHASES & PAYMENTS | RISK MANAGEMENT | ENFORCEMENT

Central Grid Links:

- e-Hazmat Electronic Services
- Who & Where We Are
- Got a Question?
- Rules & Regulations
- New Additions & Updates
- What's Hot in OHM
- Special Permits & Approvals
- Training Information
- Publications & Reports
- HMT State & Local Education
- NTSB Recommendations
- Available Files & Documents
- Incidents
- Hazmat Registration
- HMT Security
- Emergency Response Guidebook
- HMEP Grants
- Other Transportation Links
- International Standards
- Enforcement
- Risk Management
- News & Discussion
- FOIA

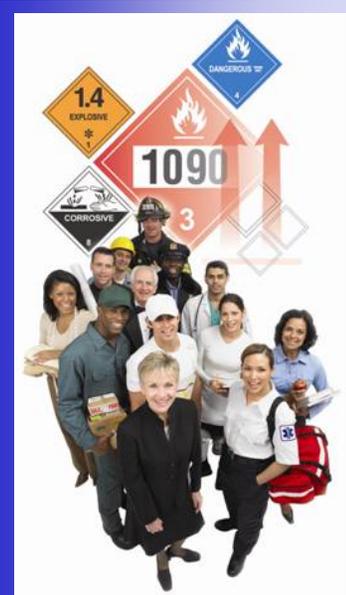
Links at the bottom: [Hurricane Katrina Emergency Exemptions](#), [Hurricane Rita Emergency Exemptions](#)

<http://hazmat.dot.gov>



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Placarding
Requirements

How Can You Reach Us?

Hazardous Materials

INFO-LINE

1-800-HMR49-22

(1-800-467-4922)

Hours of Operation: 9 am – 5 pm ET



DOT/PHMSA Photo

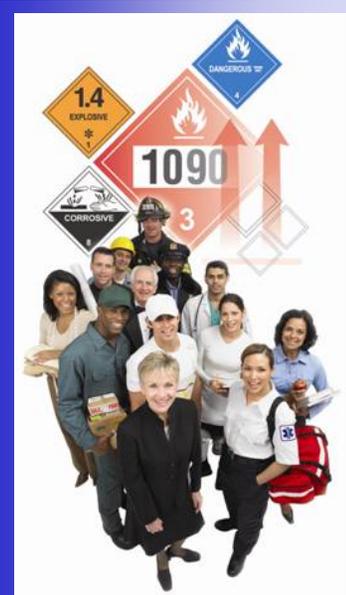
- Obtain answers to HMR questions
- Request copies of Federal Register, special permits or training materials
- Report HMR violations
- Fax on Demand

E-mail: infocntr@dot.gov



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Placarding
Requirements

**Got A
Question?**