



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration



Hazardous Materials Transportation Placarding Requirements



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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
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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
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General Placarding Requirements

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

Exceptions to these requirements exist in the HMR based on the hazard and quantity present.





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Placarding
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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 (inhalation hazard, Zone A or B)	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(a) 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 (PG I or II, other than Zone A or B inhalation haz-	POISON	172.554
	AWAY FROM FIRE	172.556



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Placarding Requirements

Table 1 – Placard Any Quantity

Note exceptions in parentheses 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
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5.2 (Organic peroxide, Type B, liquid or solid, temperature controlled).
 6.1 (inhalation hazard, Zone A or B).....
 7 (Radioactive Yellow III label only).....



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Use of Dangerous Placard with Table 1 Materials

The DANGEROUS placard may not be used when placarding Table 1 materials.





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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.





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Table 2 Exceptions

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
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6.1 (PG I or II, other than Zone A or B inhalation hazard)	POISON	172.554
	AWAY FROM FIRE	172.555



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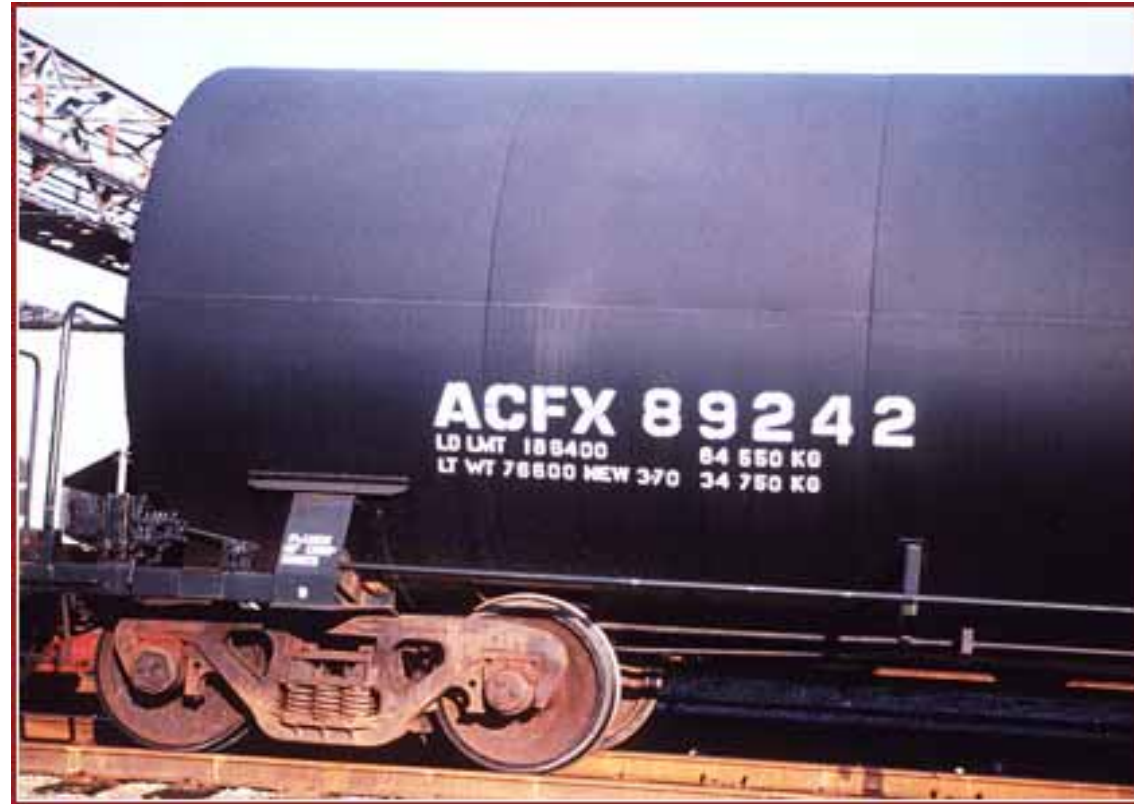
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Placarding
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Table 2 Exceptions (con't)

- Tank cars





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Placarding
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Table 2 Exceptions (con't)

- Tank cars
- Cargo tanks





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Placarding
Requirements

Table 2 Exceptions (con't)

- Tank cars
- Cargo tanks
- Portable tanks





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Placarding
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Table 2 Exceptions (con't)

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





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Table 2 Exceptions (con't)

- Tank cars
- Cargo tanks
- Portable tanks
- Other bulk packagings
- **Poison inhalation materials/poison gas**





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Table 2 Exceptions (con't)

- Tank cars
- Cargo tanks
- Portable tanks
- Other bulk packagings
- Poison inhalation materials/poison gas
- **Air and water transportation**





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Table 2 Exceptions (con't)

- Tank cars
- Cargo tanks
- Portable tanks
- Other bulk packagings
- Poison inhalation material/poison gas
- Air and water transportation
- **Dangerous when wet material**





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Placarding
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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
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Visibility

Each placard on a motor vehicle or rail car must be readily visible from the direction it faces. Placards must be on each side and each end. If couple to another motor vehicle or rail car, visibility is not required from the direction it faces. Here we see a tractor semi-trailer with the placard affixed to the front of the trailer but the placard is partially blocked by the cab. This is permitted.





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Placarding
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Attaching Placards

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





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Placarding – A Joint Responsibility

It is your responsibility, as shipper or carrier, to make sure the correct placards are offered or affixed before the shipment is transported. Since placarding is complex and crucial, do not rely solely on the information in this presentation. Use the Hazardous Materials Regulations and remember to refer to both placarding Table 1 and Table 2 and the exceptions in 172.504(f).





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Summary





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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

Grid of Services:

- 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
- NTSB Recommendations
- Available Files & Documents
- Incidents
- Hazmat Registration
- HMT State & Local Education
- Emergency Response Guidebook
- HMEP Grants
- Other Transportation Links
- International Standards
- Enforcement
- Risk Management
- News & Discussion
- HMT Security
- FOIA

[Hurricane Katrina Emergency Exemptions](#)

[Hurricane Rita Emergency Exemptions](#)

<http://hazmat.dot.gov>



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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



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

E-mail: infocntr@dot.gov



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Got A
Question?



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Placarding Requirements

CRITIQUE

Multimodal Hazardous Materials Transportation Training Seminar

Please take a few minutes to share your thoughts and ideas on this seminar.

Please complete this form and return it to the registration table at the conclusion of the seminar.

Please check all that apply:
 Shipper
 Supervisor
 Enforcement
 Other
 Carrier
 Local Government
 Preparedness
 Association
 State Government
 Response
 Non-Supervisor
 Federal Government
 Packaging Manufacturer

Tuesday, December 6, 2005

RATING
(Interest Level ● 5 = Highest; ● 1 = Lowest)

8:30 - 10:00 am GENERAL SESSION / TRAINING REQUIREMENTS ○5 ○4 ○3 ○2 ○1

Comments

10:15-11:45 am GROUP A SESSIONS
How to Use the Hazardous Materials Regulations (HMR) ○5 ○4 ○3 ○2 ○1
Transporting Hazmat by Air ○5 ○4 ○3 ○2 ○1
State Hazmat Enforcement ○5 ○4 ○3 ○2 ○1
Regulatory Process and Update ○5 ○4 ○3 ○2 ○1
Hazmat Transportation Security Requirements ○5 ○4 ○3 ○2 ○1

Comments

1:15-2:45 pm GROUP B SESSIONS
Package Selection, Marking, and Labeling Requirements ○5 ○4 ○3 ○2 ○1
Transporting Hazmat by Highway ○5 ○4 ○3 ○2 ○1
State Hazmat Enforcement ○5 ○4 ○3 ○2 ○1
Legal Review and Update ○5 ○4 ○3 ○2 ○1
Infectious Substances ○5 ○4 ○3 ○2 ○1

Comments

3:00-4:30 pm GROUP C SESSIONS
Shipping Papers and Emergency Response Information ○5 ○4 ○3 ○2 ○1
Transporting Hazmat by Water ○5 ○4 ○3 ○2 ○1
Special Permits and Approvals ○5 ○4 ○3 ○2 ○1
How to Use the Emergency Response Guidebook ○5 ○4 ○3 ○2 ○1
Applicability of the HMR to Loading, Unloading and Storage (HM-223) and Incident Reporting (HM-229) ○5 ○4 ○3 ○2 ○1

Comments

Over