Shipping Papers

Part 172 - Subpart C
Shipper/offeror Responsibilities
May not offer…

Part 177 – Subpart A
Carrier Responsibilities
May not accept…
HM Description and a Non-HM Description on the same BOL

- Contrasting color
- “X” in the HM column
- Entered first
<table>
<thead>
<tr>
<th>No. of</th>
<th>Description of articles, special marks, and exceptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>X 15107 HI GRN MINI PRILLS</td>
</tr>
<tr>
<td></td>
<td>LOT#702379 (16BGS) HINT122</td>
</tr>
<tr>
<td></td>
<td>LOT#700884 (4BGS) HINT054</td>
</tr>
<tr>
<td></td>
<td>2205LB BAGS ON 20 PALLETS</td>
</tr>
<tr>
<td></td>
<td>X POTASSIUM NITRATE</td>
</tr>
<tr>
<td></td>
<td>SEAL# CCC8169</td>
</tr>
</tbody>
</table>

**Remit C.O.D. To:**

**Address:**

City, State: [Redacted]  
ZIP: [Redacted]

**COD Amt:** $0.00

**Charges Advanced:**

*NOTE: Where the shipment is between two points by a carrier by water, the law requires that the B/L shall state whether it is carrier's or shipper's weight.*
Description Requirements

- “I” - Identification/UN number
- “S” - Proper shipping name
- “H” - Hazard class/division #
- “P” - Packing group if applicable
- “TU” - Total quantity/unit of measure
Additional Requirements when Applicable

• Special Permit – “DOT-SP”
• Hazardous Substance – “RQ”
  • Technical Name
• Poisonous Materials – “PIH”
• Emergency Response Phone Number

***Always Required***
Shipping Paper Accessibility
Driver’s Responsibility

Clearly distinguished from other papers/on top

Shipping Paper Storage
At vehicle’s controls:
• Immediate reach while restrained
• Readily visible or in the door compartment

Absent from vehicle:
• In the door compartment, on driver’s seat
Emergency Response Info.

Part 172 - Subpart G

No person may offer for transportation, accept for transportation, store or otherwise handle

- The basic description and technical name of the hazardous material
- Immediate hazards to health;
- Risks of fire or explosion;
- Immediate precautions to be taken in the event of an accident or incident;
- Immediate methods for handling fires;
- Initial methods for handling spills or leaks in the absence of fire; and
- Preliminary first aid measures.
Maintenance of Information

Facility Operators
Each operator of a facility where a hazardous material is received, stored or handled during transportation, shall maintain the information required by paragraph (a) of this section whenever the hazardous material is present. This information must be in a location that is immediately accessible to facility personnel in the event of an incident involving the hazardous material.

Carriers
Each carrier who transports a hazardous material shall maintain the information specified in paragraph (a) in the same manner as prescribed for shipping papers.

- Immediate reach while restrained
- Readily visible/in the door pocket
Bulk vs. Non-bulk

Non-bulk

• 119 gallons or less capacity
  • 882 pounds or less
• Water capacity less than 1000 gallons for a cylinder

Bulk

• Capacity greater 119 gallons
  • Mass greater than 882 pounds
• Water capacity greater than 1,000 gallon for a cylinder
Marking

Part 172 - Subpart D
Shipper/offeror Responsibilities
May not offer...
Carrier when assigned the function...

Part 177 – Subpart A
Carrier Responsibilities
May not move...
Non-Bulk Packages

- Proper shipping name
- Identification number
  - **Large quantity**
  - Technical name
  - Special Permit
  - Non-odorized LPG
    - Liquids
- Poison Inhalation Hazards
- Hazardous Substance – “RQ”
Bulk Markings
Package and Vehicle

• Proper shipping name
• Identification number
  • Special Permit
  • Non-odorized LPG
    • Gases
• Poison Inhalation Hazards
Labels
Part 172 - Subpart E
As shown in Column 6 of the HMT

- Non-bulk package
- Bulk < 640 cubic feet
- Portable tank < 1000 gallons
- DOT 106 or 110 tank car tanks
- Overpack < 640 cubic feet
  - IBC

****Unless placarded****
Duplicate Labels

172.406(e)

• Package/overpack $\geq$ 64 cubic feet
  • Non-bulk radioactive
  • DOT 106 or 110 tank car tanks
  • Portable tank < 1000 gallons
• Freight container with a volume of 64 cubic feet or more and less than 640
  • IBC with a volume of 64 cubic feet or more
# Placards

## Part 172 - Subpart F

### Table 1 – Any weight

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

**Part 172 - Subpart F**

Table 2 - 1,001 pounds and greater not bulk

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

*** Two or more Table 2 categories requiring different placards***

***Exception***
One category meets or exceeds 2,205 pounds from same facility requires that specific placard
Placards

Bulk Packages

***All 4 sides***

- Bulk 640 cubic feet or greater (< can label)
- Portable tank 1000 gallons or greater (< can label)
  - Cargo Tank
  - Tank Car
Placards

Key Points

- Class 9 placards excepted for domestic transportation
- Empty bulk packages (119 gallons and/or 882 pounds) containing residue get treated as if fully loaded
  - Placards must be offered by the shipper
- If the shipper doesn’t meet the threshold itself, but the vehicle does from previous stops the driver/carrier is now responsible for the correct placards
Ohio Public Utilities Commission

10. RQ waste, Caustic Alkali Liquids, m.o.s. (Sodium hydroxide, Potassium hydroxide) 9, UN1730, RQ, 2, 2022
11. Waste, Oxidizing Liquid, Basic, Inorganic, m.o.s. (Ammonium hydroxides) 8, UN2788, RQ, III (RQ 002) 4.43
12. NON DOT Regulated Materials, M/A none
   (Mercury Free Alkaline Batteries)
13. Waste, Methanesulfonyl chloride, 16.1, 18, UN3244, R11
14. Waste, Benzoyl chloride, 9, UN1736, R11

32. Special Handling Instructions and Additional Information
   5. HHWELLCR 3x55
   6. LAT-0 2x55
   7. HMLC SOL 1x5 bin
   8. LLCRA 2x30 +20

33. Transporter Acknowledgment of Receipt of Materials
   Printed/Typed Name
   9. LAT-A 1x55, 1x30
   10. LAT-B 1x55
   12. LBD2 1x55
   03.06.2007 09:02
Loading, Securement, Package Integrity

173.30

Party responsible for loading and/or unloading the hazardous materials must perform said functions as required by parts 174, 175, 176, and 177.
Rail - Part 174

Part 173 referenced in 174.1

174.50 – Non-conforming or leaking packages
174.55 – Package securement, orientation arrows
174.81 – HM class segregation & 174.290 - PIH
Highway – Part 177

Part 173 referenced in 177.800
177.834 – Package securement, orientation arrows
177.848 – HM class segregation
177.841 – Poisons and PIH’s
Part 173 – Assigned shipper functions for shipments & packages

173.24
Thou shall not leak
Authorized packages
Package compatibility with product
Closures
Vents
Outage and filling limits
FMCSR’s – Parts 392 & 397

Railroad grade crossings – 392.10
Stops the commercial motor vehicle within 50 feet of, and not closer than 15 feet to

Attendance – 397.5
On the vehicle, awake, and not in a sleeper berth, or is within 100 feet of the vehicle and has it within his/her unobstructed field of view.

Parking – 397.7
Must not be parked on or within five feet of the traveled portion of public street or highway except for brief periods when the necessities of operation require.

Smoking – 397.13
No person may smoke/carry a lighted cigarette, cigar, or pipe on or within 25 feet:
(a) A motor vehicle which contains Class 1 materials, Class 5 materials, or flammable materials classified as Division 2.1, Class 3, Divisions 4.1 and 4.2; or
(b) An empty tank motor vehicle which has been used to transport Class 3, flammable materials, or Division 2.1 flammable gases, which when so used, was required to be marked or placarded.