Information About Specific Types of Fuel Containers, Drums, and Tanks

Part Two

DRIP TORCHES

The DOT-specification drip torches (figure 37) became available in April 2003. All new drip torches shall meet Forest Service specification 5100-614. This specification not only meets the DOT specification, but also requires that the container be red and that the breather valve be large enough to operate with a gloved hand. No drip torches manufactured before 2003 meet DOT specifications. Nonspecification drip torches shall be replaced with drip torches that conform to Forest Service specification 5100-614 as nonspecification drip torches wear out or become damaged beyond repair. Only DOT-specification drip torches should be transported full of fuel.

**Figure 37**—A drip torch.

All drip torches that do not meet DOT specifications shall be replaced by June 2019. Do not interchange parts between DOT-specification drip torches and those that do not meet DOT specifications.

**Container Specifications**—UN 3B1 (figure 38), UN 1B1, UN 3A1, and others

**Labeling**—
- All drip torches must have the diamond-shaped FLAMMABLE LIQUID label (figure 39) or the DRIP TORCH FUEL tag.
- If more than a total of 440 pounds of hazardous material (including the weight of the containers) is being transported, the diamond-shaped FLAMMABLE LIQUID label must be applied to the box, rack, or crate used to secure the drip torches while they are being transported.

**Figure 39**—A FLAMMABLE LIQUID label.

**Marking**—The following marking (see page 16 for additional information) is required on the crate, rack, or box (figure 40) used to secure drip torches during transport.

**Figure 40**—This rack is marked properly for transporting drip torches.

**Figure 38**—The UN marking shows that this drip torch meets DOT specifications.

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(Details of other figures and captions not visible in the text)
**Part Two**

**Information About Specific Types of Fuel Containers, Drums, and Tanks**

**DRIP TORCHES**

- **FLAMMABLE LIQUIDS N.O.S. (DIESEL GASOLINE MIXTURE) UN1993.**
- In addition, the box, rack, or holder also may be marked with the words **DRIP TORCH FUEL** to help employees identify the contents.

Markings must be at least ½ inch high by 3/16 inch wide and must:
- Be permanent.
- Contrast sharply with the background color of the crate, rack, or box.
- Not be obscured by any labels or attachments.
- Be far enough away from other markings or labels to prevent confusion.

If a closed box is used to secure the drip torches, the box shall be clearly marked with orientation arrows showing up (figure 41).

**Placarding**—A **FLAMMABLE** placard (see page 17 for additional information) with UN1993 identification number (figure 42) is required on all four sides of the vehicle or trailer only if 1,001 pounds or more of all hazardous materials are being transported. Placarding is required to transport 67 or more full drip torches, assuming no other hazardous materials are transported.

**Inspection Criteria**—Inspect each drip torch before transporting it full of fuel to make sure that the lock ring and plug gaskets are not cut, cracked, or weather checked, and to make sure that neither the body nor the cover of the drip torch has been damaged. Replace or repair drip torches that do not meet these criteria.

**Container Capacity Restrictions**—Do not fill drip torches to more than 90 percent of their capacity to allow room for fuel to expand and to reduce the possibility that they might leak.

**Securing Drip Torches for Transport**—
- Make sure that the lock ring is tight, the vent is closed, the plug is screwed into the cover, and that no closures leak. Do not transport drip torches that leak.
- Wipe any fuel from the outside of each drip torch.
- Drip torches shall not be mounted on the bumper of a vehicle.
- Secure the drip torches so they will not fall over or move during transport by placing them in a crate, rack, or box, or by restraining them in some other way (figure 43). If the drip torches are in a closed box, the box shall be clearly marked with orientation arrows pointing up and the words **FLAMMABLE LIQUIDS N.O.S. (DIESEL GASOLINE MIXTURE) UN1993.** Secure each crate, rack, or box so it cannot move or tip over while it is being transported.

**Figure 41**—Orientation arrows that are used to show up on a closed box of fuel containers.

**Figure 42**—A placard with the UN identification number for drip-torch fuel included. When the identification number is not included in the placard, a separate identification number (see figure 30) must be with the placard.

**Figure 43**—Drip torches secured in a rack.
• Remove or secure loose articles in the vehicle so they cannot damage the drip torches while they are being transported.

Special Driver’s License Requirements—
• If the total weight of all hazardous materials being transported is less than 1,001 pounds and no container is larger than 119 gallons:
  —No special licensing is required.
  —Up to 66 full drip torches can be transported, assuming that no other hazardous materials are being transported.
• If the total weight of all hazardous materials being transported is 1,001 pounds or more, or if any container is larger than 119 gallons:
  —A commercial driver’s license with hazardous materials endorsement is required.
  —This requirement must be met if 67 or more full drip torches are being transported.

Training—(See page 23 for additional information.)
• If the total weight of all hazardous materials being transported is 440 pounds or less and no fuel container is larger than 8 gallons, the following training is required:
  —OSHA Hazard Communication training.
  —DOT Materials of Trade training.
  —Up to 29 full drip torches can be transported, assuming that no other hazardous materials are being transported.
• If the total weight of all hazardous materials being transported is more than 440 pounds, or if any container is larger than 8 gallons, the following training is required:
  —OSHA Hazard Communication training.
  —DOT general awareness/familiarization, function-specific, safety, security awareness, and driver training.
  —This requirement must be met if 30 or more full drip torches are being transported.

Shipping Papers and the Emergency Response Guidebook—(See page 18 for additional information.)
• If the total weight of all transported hazardous materials is less than 440 pounds and no fuel container is larger than 8 gallons:
  —None required.
  —Up to 29 full drip torches can be transported, without shipping papers and the Emergency Response Guidebook, assuming that no other hazardous materials are being transported.
• If the total weight of all hazardous materials being transported is more than 440 pounds or if any container is larger than 8 gallons:
  —Shipping papers and the Emergency Response Guidebook are required.
  —This requirement must be met if 30 or more full drip torches are being transported.

Fire Extinguishers—
• If the total weight of hazardous materials being transported is less than 1,001 pounds:
  —A minimum of one 5–B:C or two 4–B:C fire extinguishers are required.
  —Up to 66 drip torches can be transported, assuming that no other hazardous materials are being transported.
• If the total weight of hazardous materials being transported is 1,001 pounds or more:
  —A minimum of one 10–B:C fire extinguisher is required.
  —This requirement must be met if 67 or more drip torches are being transported.