

Oak Ridge National Laboratory (ORNL)
Transportation and Packaging Management (TPM)
 Container Preparation and Filling Instructions/Checklist

UN 5 Gallon Tight Head (TH) Polyethylene Drum

ORNL-CHK-44, Rev. 0

Issued: 7/22/2003

Revised:

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INSTRUCTIONS: Complete the activities below following the instructions in Section A. Activities should be checked off as performed. The completed checklist should then be signed by the Operating Personnel completing the checklist and submitted to the Operations Supervisor for approval for shipment.

NOTE 1: The 5 gallon tight head polyethylene drum is UN marked for filling with liquid hazardous materials.

NOTE 2: The maximum allowable specific gravity is embossed (bottom) and marked (side) on each drum [ex., 1.4]. Allowable specific gravity applies to Packaging Groups II or III liquids.

NOTE 3: The maximum allowable vapor pressure is embossed (bottom) and marked (side) on the drum in kilopascals [ex., 250kPa (36 psig)]. Allowable vapor pressure applied to Packaging Groups II or III liquids.

NOTE 4: Drums must be closed in accordance with the specific instructions furnished, and tested, by the manufacturer for each specific type/size drum, in order to be in compliance with DOT HAZMAT regulations. [49 CFR, ¶178.2(c)(1)]

A. UN 1H1/Y 5 Gallon TH Polyethylene Drum
Stores Catalog No. 02-118-5000

Note: Items marked (#) are solely generator's/filler's responsibility.

**Operating
Personnel**

- _____ 1. (#) Inspect the drum to be filled to ensure that it is in good physical condition and that no critical dents/damages, severe corrosion, etc. exist that could cause or develop into a leak during normal storage or in transportation.
- _____ 2. (#) Ensure that the material being filled into the drum is compatible with (will not react, corrode, or attach) the drum's internal surface.
- _____ 3. Fill the drum with liquid hazardous materials/wastes according to the requirements/limitations specified in [NOTE 2](#) and [NOTE 3](#) above.

NOTE: For liquid hazardous materials/wastes, sufficient outage **MUST BE** left in the drum such that the drum will not completely fill if the contents were to reach a temperature of 55°C (131°F) in storage or transit.

- _____ 4. (#) Ensure that the cap gaskets are in place and are in good condition prior to closing the drums. Ensure caps are not cross threaded when closing.

FOR INTERNAL USE ONLY

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A. UN 1H1/Y 5 Gallon TH Polyethylene Drum (cont'd)
Stores Catalog No. 02-118-5000

Operating Personnel

- _____ 5. [Nampac¹] Using the specified closure tool, tighten each cap to 120-inch lbs.
- _____ 6. Label and mark the drum in accordance with the current ORNL/Dept. of Transportation (DOT) requirements. For off-site shipments, contact the ORNL Transportation and Packaging Management Organization for appropriate DOE marking and labeling.
- _____ 7. Sign and date the checklist in the appropriate signature block verifying that the activities have been performed and the checklist completed.
- _____ 8. Submit this completed checklist to the Operations Supervisor for approval for shipment.

Operations Supervisor

- _____ 9. Verify that all defined activities have been successfully completed.
- _____ 10. Sign and date the checklist in the appropriated signature block, approving the container for shipment.

APPROVED FOR SHIPMENT:

Operating Personnel:	Date:
Operations Supervisor:	Date:

Prepared by: ORNL TPM Organization

Approved by: Jeff Shelton July 22, 2003
Jeff Shelton, Manager (576-6401)
ORNL TPM - Packaging Operations

¹These "Closing Instructions" are specifically for 5 gallon tight head polyethylene drums manufactured by Nampac — Identification marking code on drum side is: M4198, M41999, M4200, M4201, or M4202. [see [NOTE 4](#) on page one]