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

UN 30 Gallon Tight Head (TH) Steel Drum

ORNL-CHK-19, Rev. 2

Issued: 5/15/1997 Revised: 7/25/2002 Page 1 of 2

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 30 gallon tight head steel drum is UN marked for filling with liquid hazardous materials.
- **NOTE 2:** The maximum allowable density is embossed (bottom) and marked (side) on each drum [ex., 1.4]. Allowable density applies to Packaging Groups I, II, or III liquid materials.
- **NOTE 3:** The maximum allowable vapor pressure is embossed (bottom) and marked (side) on the drum in kilopascals [ex., 250 kPa (36psig)]. Allowable vapor pressure applies to Packaging Groups I, II, or III liquids.
- **NOTE 4:** Drum heads, that during in-house storage, have vents/pressure relief devices inserted into the bung fittings, must be removed and replaced with the original (standard) bung fitting for the closure prior to offering for shipment.

NOTE 5: 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 1A1/X 30 Gallon Carbon Steel TH Drum Stores Catalog No. 02-112-6095 Note: Items marked (#) are solely generator's/filler's responsibility. Operating ____ 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. **Personnel** 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 attack) the drum's internal surface. Fill the drum with liquid hazardous materials/wastes according to the 3. 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 bung gaskets are in place and are in good condition prior to inserting bungs into the drums. Ensure bungs are not cross threaded when inserting and when screwed in.

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		JN 1A1/X 30 Gallon Carbon Steel Stores Catalog No. 02-112-6095 (d		
Operating Personnel	5.	Insert the bungs into each bung fi bung wrench for each specific fitt		priate
	6.	[Kitzinger $\{Y-12^1, X-10^2\}$] Using a torque wrench, tighten each bung fitting/plug to: (1) 10-12 foot pounds for the 3/4 inch fitting; (2) 15-20 foot pounds for the 2 inch fitting.		
	7.	Label and mark the drum i ORNL/Department of Transportat shipments, contact the ORNL Management organization for app	ion (DOT) requirements. For off . Transportation and Packa	f-site ging
	8.	Ensure that the drum lid does not contain vents/relief devices when offered for shipment. Refer to NOTE 4 on page one.		
	9.	Sign and date the checklist in the appropriate signature block verifying that the activities have been performed and the checklist completed.		
	10.	Submit this completed checklist to the Operations Supervisor for approval for shipment.		
Operations Supervisor	11.	Verify that all defined activities have been successfully completed.		
	12.	Sign and date the checklist in the appropriate signature block, approving the container for shipment.		
		cifically for 30 gallon TH steel drums m side is: M4723 (at Y-12). [see <u>NOTE 5</u>		ge —
		cifically for 30 gallon TH steel drums m side/bottom is: None (at X-10). [see <u>N</u>		ge —
APPROVED FO	R SHIPMENT:			
Operating Personnel:			Date:	
Operations Supervisor:			Date:	
Prepared by:	ORNL TPM Orga	nization		
Approved by:	Jeff Shelton		July 25, 2002	
	Jeff Shelton, Man ORNL TPM - Pac	nager (576-6401) Skaging Operations		