

LOCKHEED MARTIN ENERGY SYSTEMS

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**THE FOLLOWING PROCEDURE IS
FOR INTERNAL USE ONLY**

**LOCKHEED MARTIN TRANSPORTATION & PACKAGING MANAGEMENT
CONTAINER PREPARATION & FILLING INSTRUCTIONS
CHECKLIST**

"UN" 5 GALLON OPEN HEAD (OH) STEEL DRUM
Revision 0

LMTPM-CHK-14
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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 open head drum is "UN" marked for filling with either liquid or solid hazardous materials.

NOTE 2: The maximum allowable gross weight is embossed (bottom) and marked (side) on each drum in kilograms [ex., 43 kilograms (95 lbs)]. Allowable weight applies to Packaging Groups I, II, or III solid materials.

NOTE 3: The maximum allowable density is embossed (bottom) and marked (side) on each drum [ex., 1.2]. Allowable density applies to Packaging Groups II and III liquid materials.

NOTE 4: The maximum allowable vapor pressure is embossed (bottom) and marked (side) on the drum in kilopascals [ex., 100 kPa (15 psig)]. Allowable vapor pressure applies to Packaging Group II and III liquids.

A. UN 1A2/X - UN 1A2/Y 5 Gallon Carbon Steel Drum
Stores Catalog No. 02-112-6210

**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 in the drum is compatible with (will not react, soften, or attack) the drum's internal phenolic coating.
- _____ 3. **IF** the hazardous materials/wastes is solid, **THEN**
Fill the drum according to the requirements/limitations specified in NOTE 2 above.
- _____ 4. **IF** the hazardous materials/wastes is liquid, **THEN**
Fill the drum according to the requirements/limitations specified in NOTE 3 and NOTE 4 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.

- _____ 5. Ensure that the gasket is in place, is in good condition, and is adhered to the drum lid on filled drums prior to placing the lid on the filled drum.

FOR INTERNAL USE ONLY

**A. UN 1A2/X - UN 1A2/Y 5 Gallon Carbon Steel Drum (cont.)
Stores Catalog No. 02-112-6210****Operating
Personnel**

- _____ 6. Close the drum with the steel locking ring and 5/16 inch (minimum) steel bolt and jam nut (supplied with drum).
- _____ 7. Ensure that the bolt section of the locking ring is extended below the ring and not protruding above the drum lid.
- _____ 8. Tap around the closing ring with a heavy rubber mallet/hammer and tighten the bolt with a wrench at the same time. The locking ring should close to a 1/8 inch +/- 1/16 inch gap.

NOTE: If the locking ring butts itself when completely tightened, in lieu of leaving a gap, the ring is too large or the gasket is too thin--making the lid/locking ring unusable. The lid and/or locking ring must then be replaced.

- _____ 9. Tighten the jam nut to prevent unintentional loosening of the closure during handling/transit.
- _____ 10. Label and mark the drum in accordance with the current Lockheed Martin/Department of Transportation (DOT) requirements. For off-site shipments, contact the Lockheed Martin Transportation & Packaging Management organization for appropriate DOT marking and labeling.
- _____ 11. Sign and date the checklist in the appropriate signature block verifying that the activities have been performed and the checklist completed.
- _____ 12. Submit this completed checklist to the Operations Supervisor for approval for shipment.

**Operations
Supervisor**

- _____ 13. Verify that all defined activities have been successfully completed.
- _____ 14. Sign and date the checklist in the appropriate signature block, approving the container for shipment.

A. UN 1A2/X - UN 1A2/Y 5 Gallon Carbon Steel Drum (cont.)
Stores Catalog No. 02-112-6210

APPROVED FOR SHIPMENT:

Operating Personnel:	Date:
Operations Supervisor:	Date:

Prepared by:

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