

***** BOLT RING CLOSURE NOTIFICATION *****

Pursuant to the requirements of the Department of Transportation in CFR 49 Part 178.2(c)(1), this is your notification of the closing method used for the the containers sold to you.

These instructions for closure are based upon the closure methods used to enable these containers to pass the United Nations test requirements as outlined by the UN marking on the package. This method of closure should be used to ensure that your containers have been closed in the same manner as when they were initially tested. To be UN certified, this drum must be closed with the same cover, closing ring, gasket and plugs (if applicable) used for certification. If the drum is purchased without these parts, contact the supplying Greif plant for the correct components.

Your product may adversely affect container materials, bung threads or closing devices. Product compatibility with the container is the shipper's responsibility.

The closure recommendations do not take into account any hazards present at your facility, or the handling, filling or shipping of your product.

Any container used for packaging hazardous materials should be inspected before filling and shipment. Containers with obvious damage or deterioration should not be filled or shipped.

NOTE: If drums are filled with products outside the marked rating, the warranty is null and void.

Ring Closing Instructions:

- 1) Place cover on the drum, making sure that the gasket is in place.
- 2) Snap the closing ring over the cover and top lip of the drum. Make sure that the ring's lugs point down below the ring. Also, make sure the bottom edge of the closing ring engages under the lip of the drum.
- 3) Insert the bolt completely through the lug without threads. Next, screw on the jam nut if included. Finally screw the bolt into the threaded lug.
- 4) While tightening the bolt, tap along the entire perimeter of the ring with a mallet, starting directly across from the bolt.
- 5) Tighten the bolt according to the manufacturer's recommended torque and gap listed below. The cover and ring should not spin, and the free ends of the ring should not touch.
- 6) If used, tighten the jam nut or locking nut against the lug without threads. This prevents the bolt from backing out of the closing ring.

Plug Closing Instructions:

- 1) Place the plugs into the appropriate bung.
- 2) Turn the plug gently clockwise, making sure that the plug is entering the bung properly.
- 3) Using a torque wrench, tighten the plug according to the manufacturer's recommended torque below.

Drums with rings and plugs closed in this manner have met the UN performance requirement as specified in the container markings.

January 26, 2023 - rev.1

Closing Ring		Torque	Gap
12ga Bolt Ring with EPDM Gasket	60	ft-lbs	1/8" to 5/8"
Plugs			
Tri-Sure 2" Steel with Poly Irradiated	20	ft-lbs	
Tri-Sure 2" Steel with Poly Irradiated	20	ft-lbs	
Tri-Sure 2" Nylon with Poly Irradiated	22	ft-lbs	

Tri-Sure 3/4" Steel with Poly Irradiated
Tri-Sure 3/4" Nylon with Poly Irradiated

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ft-lbs
ft-lbs