

Customer Guidance For the Use of GLI Vertical drums

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1. Introduction

This documents aims to assist customers of Mexichem Fluor to introduce 900 litre vertical GLI drums onto their site. This document should be given to all personnel that will handle the drum prior to its arrival to ensure they have read and understood it.

2. Safety

Safety is of primary importance to Mexichem Fluor and should be considered at all stages during the handling of the drum and during the discharging of the product. Whilst this document offers advice and recommends best practice for the handling of the drum, only the user has first-hand knowledge of their site and its environment, with this in mind they should consider local factors when making decisions.

If in doubt about any of the content of this document or you require clarification, please contact your Mexichem representative immediately.

3. Technical Data of the Drum

Drawing GC339394 attached to this document shows the technical data associated with this drum. This drawing should be studied carefully before making decisions regarding drum transport or product discharge.

The key information to be considered is;

- i. The outlet of the drum is 1" BSPP. Mexichem can provide an adaptor to convert this to suit local fittings.
- ii. The Tare weight of the drum is approximately 506kgs
- iii. The Fill weight of the drum is 876kgs
- iv. The maximum gross weight of the drum is therefore approximately 1400kgs.
- v. Drum height is approximately 1827mm
- vi. Drum width when being moved with a Fork lift truck or pallet truck is 1000mm

4. Transporting the Drum

Whilst the maximum gross weight of the drum is approximately 1400kgs it is recommended that any lifting equipment, including fork lift trucks should be rated to at least 1500kgs to increase stability of the load.

Whilst a crane or fork lift truck may be required to lift the drum from the delivery vehicle, it is possible to manoeuvre the drum using a manual pallet truck when it is at ground level.

It is advised that dimensions and technical data on drawing GC339394 are used to select the correct pallet truck from a local distributor. Consideration should be given to the stability of the load and the local road surfaces when selecting the pallet truck.

5. Operation

5.1 Drum receipt

When a drum is received to site it should be inspected by the customer upon receipt for any visible external damage. This should be recorded and photographed if possible and your Mexichem representative informed immediately.

If the drums are delivered full from Mexichem Fluor the following procedure should be followed. If there is non-compliance to any of the following points please contact your Mexichem Fluor representative immediately.

- a. Upon receipt check tag seals on the drum are in place and have not been tampered with.
- b. Check that the unique tag seal numbers match those identified on the "Certificate of analysis".
- c. Check plastic blanking caps are fitted to the outlet connections of both valves.

5.2 Drum return

Drums should be returned to Mexichem under a slight positive pressure. This is provided by the product vapour heel remaining in the drum when all the liquid has been removed. **Do not draw a vacuum on the drum** as this will increase the possibility of the ingress of moisture and contamination when in transit back to Mexichem.

When the drum is empty and due for return to Mexichem Fluor;

- a. Ensure all valves on the drum are securely closed.
- b. Fit the uniquely numbered tamper proof tag seals as supplied free issue by Mexichem Fluor.
- c. List the new tag seal numbers onto the return note for the drum.
- d. Ensure the blanking caps and gaskets are fitted to the valve outlet.

5.3 Valve operation

Due to the classification of the GLI drum the valve assembly is different to most of our other drum types. The GLI valve has an internal valve which is to prevent loss of containment of the product if the external parts of the valve assembly are damaged in transit or during operation. Due to this valve it is critical that the following instructions regarding the opening of the valves are followed closely.

The part numbers referred to during this procedure are the item numbers listed on drawing GC339394

- a. Ensure tag seal procedure has been followed as described in section “5.1”
- b. Make sure the manual valve “Item 9” is fully closed.
- c. Carefully remove the dust cap from the drum outlet “Item 10” and connect local hoses securely.
- d. SLOWLY open the internal valve by pulling then “internal valve opening handle: Item 7”
- e. When this valve is fully open locate this handle on to the “internal valve handle locating pin: Item 8”
- f. SLOWLY open the manual valve “Item 9” and check for leaks as hoses fill. If any leaks are found shut the manual valve, followed by the internal valve, and then repair the leak.
- g. If the internal valve does not open close the manual valve “Item 9” followed by the internal valve by releasing the valve opening handle “Item 7” from the locating pin “Item 8” then repeat the sequence from point “d” of this procedure

6. Appendices

- a. Appendix 1: GC339394, drawing of the 900 litre vertical GLI drum