

Ethanolamines/Glycol Ethers

In Plant Training (IPT)

Section Number: 2A

Issue Number: 1.3

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Section Test: 8

Loading Familiarization Tank Truck Loading

Answers:

1. Physically locate:

- A. Ethanolamines loading scale.
- B. Glycol Ethers loading scale.
- C. Emergency trip button for loading pumps.
- D. Emergency trip button for loading ramps.
- E. Area safety showers.
- F. Area intercoms.
- G. Hydraulic system for loading ramps.
- H. Amines air operated valves.
- I. Ethers air operated valves.
- J. Utility stations.
- K. Area fire extinguishers.
- L. Area sump and pump.

2. State the flammable products loaded at the tank truck rack.

PM

3. State the combustible products loaded at the tank truck rack.

DPM AND EB

4. State the safety equipment required for loading tank trucks.

Monogoggles

5. State what products require placards on tank trucks.

PM, DPM, EB, DEA, T-85, T-99, A5503 FOR Molex, AND MEA.

6. State what happens when you push the loading emergency trip button.

All loading and some transfer pumps shut down and the solenoids at the block limits drop closing the EBV's.

7. State why it is important to check the container (tank truck) material of construction prior to loading.

To ensure compatibility of material of construction and product to be loaded.

8. **State what your actions would be if you were sprayed with product.**
Immediately get under a safety shower, push the alarm button, undress and flush eyes until someone arrives to assist.
9. **State the purpose of a check sheet in loading a tank truck.**
To ensure all required jobs/items are complete.
10. **State the purpose for grounding a tank truck.**
To prevent product ignition from a static spark.
11. **State at which spot condensate is loaded.**
Ethanolamines
12. **State who is responsible for your safety.**
Yourself.
13. **Demonstrate that you can load a tank truck. This must be done once with Any product.**
14. **State which product requires purging with nitrogen prior and during loading. State when purge is sufficient.**
PM. When oxygen is less than 8%. TEA-85 and TEA-99.
15. **State the products that ethanolamines will not be shipped with.**
Acids, acid anhydrides, chlorinated organics, aldehydes, or ketones.
16. **State the exception to #15.**
A double bulkhead with bleed between tanks.
17. **State what type wash is required if the last contents of a tank truck were a chlorinated compound or product in which we do not know the reactivity.**
Caustic.
18. **State when the loaded tank truck can be released.**
After recording the analysis and entering it into the computer.
19. **State the objective of the white bucket test.**
To ensure that product in tank trucks is of shippable quality, free of specs and that this test is done in a safe manner.
20. **Why must we circulate the storage tank prior to loading a tank truck order that includes a temperature spec.**
Because some of our products, especially ethanolamines, will stratify in the storage tanks causing the temperature to read lower than it may be.
21. **State what type loads require a signed waiver from the customer prior to loading.**
Loads where the customer has requested that product be loaded into non-standard containers that do not meet established criteria, i.e. cleanliness.
22. **State what paperwork the signed waiver must be attached to.**
The order set/contract and the loading check sheet.
23. **State one tank material that amines low freeze grade products can not be loaded in.**

Aluminum

24. Why is it very important to tighten and seal all tank truck openings.

To make sure product does not spill out of tank truck and to ensure tank truck is not tampered with until it gets to the customer.

Revisions:

No. 1	06-02-93	Added question & answer no. 20
No. 2	08-26-93	Added questions & answers no. 21 & 22
	12-13-95	Yearly review, no changes
No. 3	02-14-96	Added question & answer No. 24
No 4.	01-24-97	On No. 5, added DEA, T-99, T-85, and A5503 for Molex