Unloading Methylene-di-phenyl Diisocyanate (MDI) Tank Trucks

1. Delivery

During delivery, consider the following:

- Spot tank truck, apply brakes, and set wheel chocks.
- Show driver where to find eyewash, safety shower, and fire extinguisher.
- Explain the facility’s emergency procedures.
- Locate the tank truck remote emergency shutoff.
- Verify that the Bill of Lading names MDI as cargo.
- Confirm that the trailer number on Bill of Lading matches number on trailer.
- Review whether Certificate of Analysis matches MDI specification.
- Verify that the correct receiving tank is being used and is in good condition.
- Confirm that the amount on weight ticket will fit in receiving tank.
- Use personal protective equipment (PPE) specified in product safety data sheet (SDS).
- Verify that hoses, gaskets and fittings are in good condition.
- Verify that the driver connects hoses to trailer.
- Confirm that the unloading operator connects hoses to facility.
- Secure unloading connections.

2. Hookup

During hookup, consider the following:

- Use personal protective equipment (PPE) specified in product safety data sheet (SDS).
- Verify that hoses, gaskets and fittings are in good condition.
- Confirm that the driver connects hoses to trailer.
- Secure unloading connections.

3. Unloading

During unloading, consider the following:

- Comply with DOT attendance requirement. According to 49 CFR§177.834, a qualified person unloading must:
  - Be alert and within 25 feet of tank trailer
  - Maintain an unobstructed view of tank trailer
  - Be trained on product hazards
  - Know emergency response procedures
  - Be authorized to move the trailer, and have the means to do so.
- Properly maintain positive pressure on the trailer.
- Monitor temperature, pressure and level in receiving tank.
- Close all valves when trailer is empty.
- Bleed pressure from all hoses before disconnecting.
- Apply caps, plugs and secure empty trailer for return shipment.
- Consult supplier SDS.
- Follow the facility’s emergency response plan.

Spill Response

- Call CHEMTREC for 24 hour emergency assistance 1-800-424-9300.
- Consult supplier SDS.

For additional information see the suppliers SDS and the Center for the Polyurethanes Industry (CPI) guidance document, “Guidelines for Receiving and Unloading MDI” available at www.polyurethane.org. The information contained herein is provided gratis and for informational purposes only. The American Chemistry Council (ACC) and Center for the Polyurethanes Industry (CPI) do not warrant, and assume no responsibility for the accuracy or completeness of any information contained in this guidance, all such information being given and accepted at your risk. The work is protected by copyright, Users are granted a nonexclusive royalty-free license to reproduce and distribute this document, subject to the following limitations: 1) the work must be reproduced in its entirety, without alterations; and (3) copies of the work may not be sold. Published August 2015. This document may be updated. For the most current version, see www.polyurethane.org.