Unloading Toluene Diisocyanate (TDI) Rail Cars

1. Preparation for Unloading

During delivery, consider the following:

- Unloaders must be trained (49 CFR§172.700)
- Review unloading procedure
- Locate and check safety shower and eyewash
- Secure rail car and rail track (49 CFR§173.31(g))

- Restrict access to unloading area
- Verify that the correct receiving tank is being used and is in good condition
- Verify that receiving tank can hold contents of rail car
- Record start level in receiving tank

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
- Verify connection to proper receiving tank
- Secure unloading connections

3. Unloading

During unloading, consider the following:

- Monitor hoses, fittings, and piping for leaks
- Monitor temperature, pressure, and level in receiving tank
- Maintain positive pressure on rail car
- Immediately clean up spills
- Consult SDS and facility emergency response plan

- Call CHEMTREC for 24 hour emergency assistance 1-800-424-9300

4. Returning Empty Car

When returning empty car, consider the following:

- Record stop level in receiving tank
- Maintain positive pad on rail car
- Do not open manway
- Ensure all plugs/caps are secured and wrench tight
- Complete unloading checklist

- Apply security seal
- No product residue on outside of rail car (49 CFR§173.24(b)(4))

For additional information see the supplier's SDS and the Center for the Polyurethanes Industry (CPI) guidance document, "Guidelines for Receiving and Unloading TDI" available at www.polyurethane.org.

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