#### Handling and Disposing Drums Containing Spray Polyurethane Foam (SPF)

#### February 9, 2011







#### **Discussion Topics**

- Material safety data sheet (MSDS)
- Drum selection
- Drum transport
- Drum storage
- Personal protective equipment (PPE)
- Procedures for chemical transfer
- Consolidating partial containers
- Handling damaged or bulging containers
- Managing empty containers
- Cleaning up small spills
- Emergency response





#### Material Safety Data Sheets (MSDS)

Before handling SPF chemicals, refer to the material safety data sheet (MSDS) for important information.









#### **Drum Selection**

When selecting drums for SPF chemicals, manufacturers typically select drums meeting DOT Specifications for Packaging, 49 CFR 178, Subparts L and M.







#### Drum Transport

When selecting a vehicle for drum transport, factors to consider include:

- Weight of materials transported
- Weather
- Insurance (liability and environmental)
- Ability of the vehicle to secure all materials transported





#### **Drum Storage**

Water/water vapor contamination can cause Aside drums to rupture and can make both the A-side and B-side unusable.

- To help prevent contamination:
  - Store drums indoors when possible
  - Keep drums sealed tightly







#### **Drum Storage**

When SPF chemicals are overheated, they can break down to produce various chemicals. Refer to the manufacturer's literature for information on:

- Appropriate storage temperature
- Potential chemical incompatibilities

Avoid placing chemical drums near a heat source or in direct sunlight to help prevent accidentally heating the chemicals.





### Personal Protective Equipment (PPE)

- Wear appropriate personal protective equipment when handling liquid SPF chemicals
- Refer to the MSDS for specific information on the chemicals you are working with













#### Procedures for Chemical Transfer

- If transferring SPF chemicals from a drum to another container, clean and dry the drum pump before and after filling the container
- Follow legal requirements regarding drum and container labeling.
- During filling , workers typically vent the day tanks using a desiccant vent to help prevent water vapor contamination during transfer.







#### Consolidating Partial Containers

 Partial containers of SPF chemicals can be consolidated if they are the same product made by the same manufacturer.

• Reinstalling the bung correctly will help prevent contamination.





#### Handling Damaged or Bulging Drums

- Drums that have been heated or contaminated with water /water vapor may bulge due to pressure
- If you notice a drum that is bulging, do not move the drum; contact the manufacturer for immediate assistance







### Managing Empty Containers-Reconditioning and Disposal

Recondition or dispose of drums per applicable local, state, and federal regulations.

- Information on drum reconditioning can be found at <u>www.reusablepackaging.org</u>
- The CPI guidance document, "Disposal of Used Spray Polyurethane Foam Drums," available at <u>www.spraypolyurethane.org</u> contains helpful information.







#### **Cleaning up Small Spills**

Here are some general considerations that may be helpful when

cleaning up a small spill:

- Refer to the MSDS for specific instructions
- Contain and neutralize the spill
- Cover the spill with an absorbent materials
- Collect waste material in a container
- Decontaminate the surface



- Dispose of waste per applicable federal, state, and local regulations
- Large spills may trigger federal, state, or local reporting requirements



# Emergency Response Plan

A written emergency response may include the following:

- Delegation of authority, emergency notification, and contact information for emergency personnel, including third party responders
- Access restrictions to the response area, typically limited to trained personnel identified in the emergency response plan
- Location of emergency response supplies
- Response procedures, including waste management





#### **Emergency Response**

- Large spills may require emergency assistance and reporting to authorities.
- In an emergency, contact CHEMTREC 24/7

#### CHEMTREC 1-800-424-9300





#### Thank you!

• For more information, visit

www.spraypolyurethane.org.

## **QUESTIONS?**

