

# GRAVITY

## SECTION 4

## CHAPTER 2

### HANDLING AND STORING DRUMS

#### Purpose

This section describes the safety precautions for using and storing flammable and combustible liquids in drums. These precautions apply to both operating and maintenance areas.

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#### Scope

This program applies to all Company facilities. Yard managers and supervisors are responsible for following these policies in their areas.

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## Handling Drums with Flammable and Combustible Liquids

### Purpose

This document describes the guidelines for:

- identifying flammable and combustible liquids
- labeling drums
- maintaining a reasonable number of drums
- storing drums
- transferring liquids between drums

### Identifying flammable and combustible liquids

Flammable liquids:

- have a flashpoint below 100°F
- are classified as flammable by their manufacturer

Combustible liquids include any liquid having a flashpoint greater than or equal to 140°F and below 200°F.

### Labeling

The manufacturer's warning label must be visible on all drums, and be supplemented with a Material Safety Data Sheet (MSDS). **IF** the manufacturer does not provide the MSDS for the chemical in the drum, **THEN** obtain one from the manufacturer or another source before using the chemical in that drum.



**Storing drums**

Minimize the risk of explosion by storing drums:

- at the perimeter of the property
- outside of the building
- in the containment shed
- away from compressors or other confining areas
- away from spark-producing operations
- with drip pans when possible

Do **not** store drums in walkways or near exits.

**NEVER** store drums without bungs.

Only keep on hand the minimum amount required to complete necessary operations. Properly dispose of empty drums and **DO NOT** use empty drums for storage of other liquids.

**Transferring liquids**

Do **not** transfer flammable and combustible liquids through air pressure on the drum. Instead, use a crank or electric means to transport flammable and combustible liquids.

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## Handling Drums with Flammable Liquids

<b>Purpose</b>	<p>This document describes the procedures for:</p> <ul style="list-style-type: none"><li>• protecting drums from sources of ignition</li><li>• using grounding or bonding devices</li><li>• using pressure relief vents</li><li>• using and maintaining drip pans</li><li>• transporting drums</li></ul>
<b>Sources of ignition</b>	<p>Eliminate sources of ignition in the area where flammable liquids are used or dispensed. See the chapter on <i>Fire Protection</i> in this manual for more information.</p>
<b>Grounding or bonding devices</b>	<p>Attach grounding and bonding devices to all drums of flammable liquids that are in service to prevent sparks that may cause a fire. When dispensing liquids, bond the container to the drum using the following:</p> <ul style="list-style-type: none"><li>• wire and clamps</li></ul> <p><u>Exception:</u> Drums do <b>not</b> require grounding or bonding unless they contain liquids that are susceptible to static electricity.</p>
<b>Pressure relief vents</b>	<p>Attach a pressure relief vent to the bung hole of any drum that is in service in areas classified as “hazardous” according to NFPA 30 regulations.</p>
<b>Drip pans</b>	<p>Use drip pans to catch drips or spills from drums. Empty drip pans regularly and dispose of contents properly.</p>
<b>Transporting drums</b>	<p>Use forklifts to transport drums. Chain the drums to the forklift.</p>