

Hazard Communications - Introduction

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Risk Management and Safety

Objectives

- Describe how hazard communications keeps you safe from the dangers of chemicals.
- Recognize how to work safely with chemicals.



Chemical Classifications

- Physical hazards
- Health hazards
- Asphyxiates
- Combustible dust
- Pyrophoric gasses
- Hazards not otherwise classified (NHOCs)

Physical Hazard

- A physical hazard is a chemical that can cause a fire, explosion, or some other violent reaction when it comes in contact with air, water, or other chemicals.



Health Hazards

- Any chemical that is:
 - Toxic;
 - Corrosive or irritating to the skin or eyes;
 - A respiratory sensitizer;
 - A cause of cancer, birth defects, or reproductive issues;
 - Harmful to specific organs in the body;
 - Harmful or deadly when inhaled.
- Can enter the body through inhalation, skin contact, or ingestion.
- Can cause acute and chronic health problems.

Asphyxiate

- An asphyxiate is a gas that can cause unconsciousness or death by lowering the concentration of oxygen in the air or by totally replacing the oxygen in breathing air.



Combustible Dust

- A combustible dust is any combustible material that can burn rapidly when in a finely divided form.



Pyrophoric Gas

- A pyrophoric gas can spontaneously ignite at room temperature.



Hazard Not Otherwise Classified (HNOC)

- An HNOC is a hazardous chemical that does not fall into the established hazard classifications.



Globally Harmonized System (GHS)

- The Globally Harmonized System (GHS) of Classification and Labeling of Chemicals is an international approach to hazard communication, providing agreed criteria for classification of chemical hazards, and a standardized approach to label elements and safety data sheets.



Safety Data Sheets (SDS)

- Provides information you need to work safely with a specific chemical.
- Follows a specific 16-section format.
- Be sure to know where to find SDS in your building.



Labels

- Each hazardous chemical container must be labeled with the chemical name and other quick reference information.
- Always review a container's label before using a chemical.
- **NEVER** use chemicals from an unlabeled container.

Sample Safety Data Sheet

Labels

Product identifier

Flamotox

Pictogram



Signal word

Danger

Highly flammable liquid and vapor
Harmful if swallowed

Hazard statements

Keep away from heat/sparks/open flames. No smoking. Keep container tightly closed. Store in a cool, well-ventilated place. Ground and bond container and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Dispose of contents/container in accordance with local, regional, national and international regulations as specified.

Precautionary statements

Fire:
In case of fire: Use dry chemical (BC) or carbon dioxide (CO₂) fire extinguisher to extinguish.

First aid:
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin (or hair) with water/shower.
If swallowed: Call a doctor if you feel unwell. Rinse mouth.

GHS Example Company, 1234 Main Street, HazCom City, New York 130XX

888-888-8888

Chemical manufacturer, importer, or other responsible party



Chemical Safety

- Remove all jewelry.
- Use face and eye protection.
- Wash your hands thoroughly.
- Clean and store personal protective equipment (PPE) properly.
- Avoid eating, drinking or smoking near chemicals.



Questions?