

Class 3: Flammable Liquids

LPHM3



# Hazardous Communication



## Objectives:

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- Be able to identify what a hazardous material is.
- Understand segregating chemical issues.



# Hazardous Materials

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- ***What Is Hazardous Material?***
- A **hazardous material** is any item or agent (biological, chemical, physical) which has the potential to cause harm to humans, animals, or the environment, either by itself or through interaction with other factors.
- Hazardous materials, as defined, include toxic, flammable, corrosive, asphyxiating, dusts, and explosive materials.





# MSDS and Inventory's



# Storage containers and cabinets



# MSDS /Inventory

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- **Product Name and Identification**
- **Hazardous Ingredients/Identify Information**
- **Physical/Chemical Characteristics**
- **Fire and Explosion Hazard Data**
- **Reactivity Data**
- **Health Hazard Data**
- **Precautions for Safe Handling and Use**
- **Control Measures**
- **Hazardous materials need to be inventoried and maintained.**
- **Identified materials need to be placed in some type of order (A-Z, etc).**
- **Inventories need to accompany MSDS sheets.**
- **Inventories and MSDS need to be readily accessible.**

# Hazardous Communication Program:

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- The Hazard Communication Standard, §1910.1200 provides workers exposed to hazardous chemicals with the right-to-know the identities and hazards of those materials, as well as appropriate protective measures. When workers have such information, they are able to take steps to protect themselves from experiencing adverse effects from exposure.

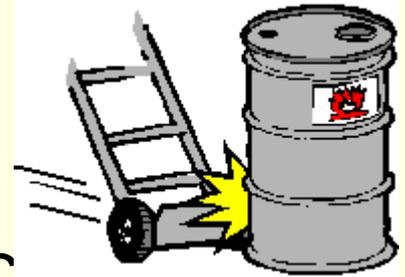
# Parts of a HAZCOM program:

- 1. Inventory and audit of hazardous chemicals and materials.
- 2. Labels and labeling of hazardous chemicals and material containers.
- 3. Material safety Data sheets(MSDS) maintenance, distribution, availability and locations
- 4. Personnel training and information, general and specific.
- 5. A written "Hazard Communication Program" as herewith prescribed.

# Additional sections of HAZCOM Programs

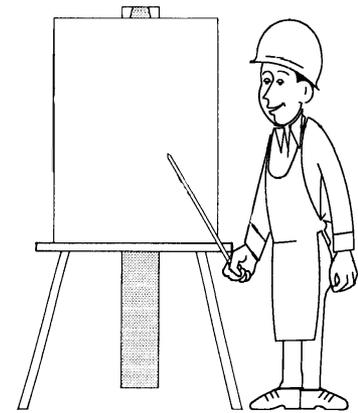
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- **Additional sections may include:**
- Hazardous Nonroutine Tasks
- Informing Contractors
- Hazardous Material Reduction
- Clean-up Operations
- Warning Systems (Shelter in Place,



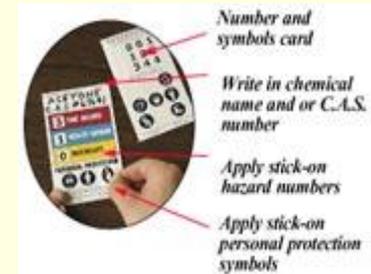
# Training

- Employee training is a vital component of a comprehensive and effective Hazard Material Communication Program. All employees will receive training regarding the following key components of this program:
  - Basic requirements of the Forest's written program.
  - Types of hazardous chemicals present at the workplace.
  - How to properly store chemical used in workplace.
  - How to read and prepare chemical hazard warning labels.
  - How to understand and use a Material Safety Data Sheets (MSDS).
  - Location of the MSDS for chemicals used in the workplace.
  - Physical and health risks of the hazardous chemicals.
  - How to reduce or prevent exposure to hazardous chemicals through exposure control procedures, safe work practices, and personal protective equipment (PPE).



# Label and other forms of warning

- Labels should include the chemical identity, appropriate hazard warnings, and name and address of the manufacturer
- Employees who purchase, introduce, or transfer hazardous materials to secondary containers will ensure labeling requirements are met before the product is permitted to be used in the workplace



# MATERIAL SAFETY DATA SHEETS (MSDS)

- Employees responsible for purchasing, shipping and receiving hazardous materials will ensure a copy of the product MSDS is filed in the MSDS notebook located at designated administrative worksites.
- Supervisors who authorize the purchase, storage, and use of hazardous materials have the ultimate responsibility to see that a complete MSDS is readily available to their employees.
- MSDS SEARCH:
  - <http://www.ilpi.com/msds/index.html>

