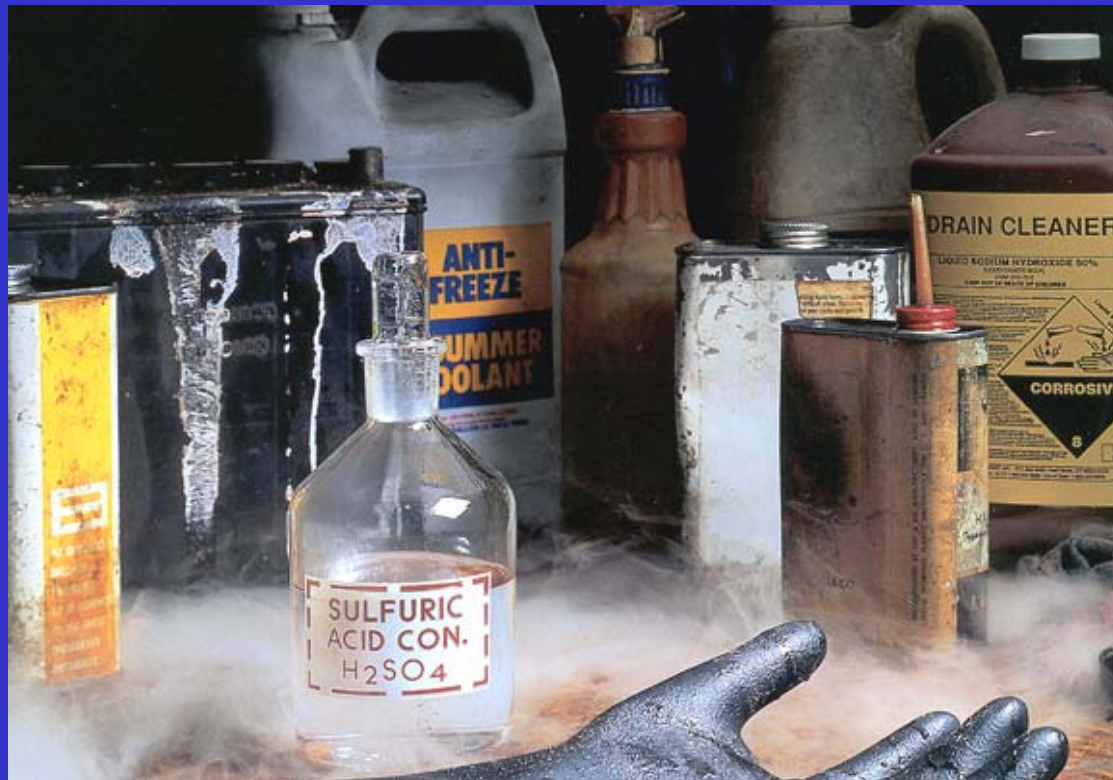


# Chapter 3-Hazard Communication



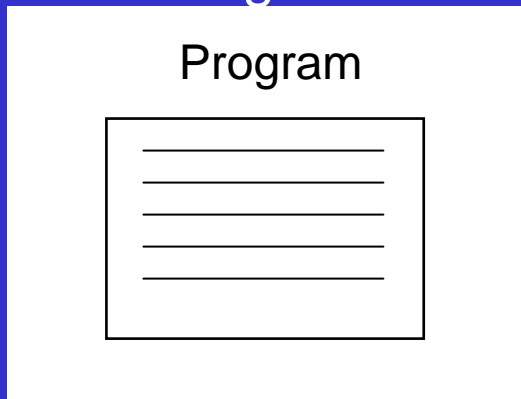
# Introduction

- **About 32 million workers work with and are potentially exposed to one or more chemical hazards.**
- **There are over 650,000 existing chemical products, and hundreds of new ones being introduced annually.**
- **Chemical exposure may cause or contribute to many serious health effects.**
- **Some chemicals may also be safety hazards and have the potential to cause fires and explosions and other serious accidents.**

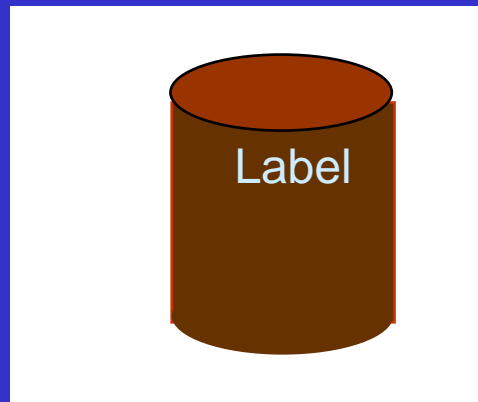
# Purpose of OSHA's Hazard Communication Standard

To ensure that employers and employees know about work hazards and how to protect themselves so that the incidence of illnesses and injuries due to hazardous chemicals is reduced.

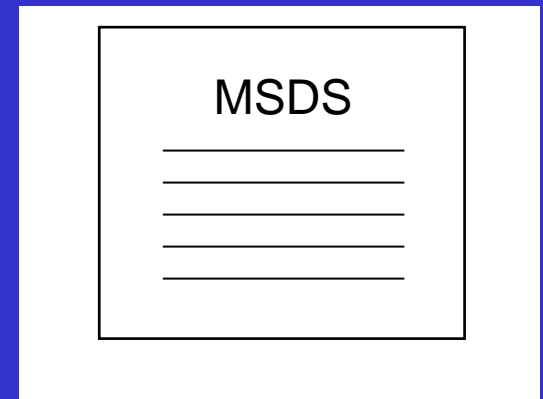
Hazard  
Communication  
Program



Container  
Labeling



Material Safety  
Data Sheet



# Who is covered?

**OSHA's Hazard Communication (HazCom) standard applies to general industry, shipyard, marine terminals, longshoring, and construction employment and covers chemical manufacturers, importers, employers, and employees exposed to chemical hazards.**

# **Employer Responsibilities**

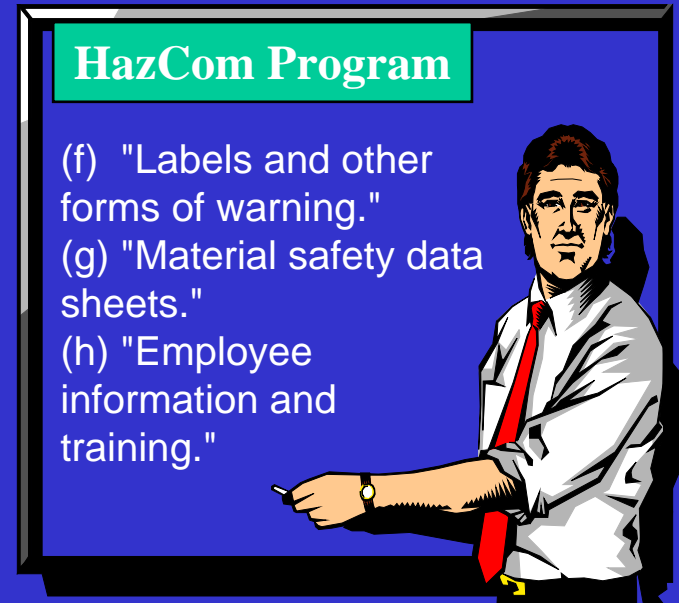
- **Identify and list hazardous chemicals in their workplaces.**
- **Obtain Material Safety Data Sheets (MSDSs) and labels for each hazardous chemical.**
- **Implement a written HazCom program, including labels, MSDSs, and employee training.**
- **Communicate hazard information to employees through labels, MSDSs, and formal training programs.**

# How can workplace hazards be minimized?

- The first step in minimizing workplace hazards is to perform a thorough hazard assessment.
- Employers can rely on the evaluations performed by the manufacturers or importers to establish the hazards of the chemicals they use.
  - This information is obtained from MSDSs and labels.

# Why is a written program required?

- Ensures that all employers receive the information they need to inform and train their employees.
- Provides necessary hazard information to employees.



# Written HazCom Program Requirements

- **Describes container labeling, MSDSs, and employee training for each workplace.**
- **List of the hazardous chemicals.**
- **Make information regarding hazards and protective measures available to other employers onsite.**



# How must chemicals be labeled?

Each container of hazardous chemicals entering the workplace must be labeled or marked with:

- Identity of the chemical.
- Appropriate hazard warnings.
- Name and address of the responsible party.



# Container Labeling in the Workplace

- The hazard warning can be any type of message, picture, or symbol that provides information on the hazards of the chemical(s) and the targeted organs affected, if applicable.
- Labels must be legible, in English (plus other languages, if desired), and prominently displayed.



# Material Safety Data Sheets

Prepared by the chemical manufacturer or importer and describe:

- Physical hazards, such as fire and explosion.
- Health hazards, such as signs of exposure.
- Routes of exposure.
- Precautions for safe handling and use.
- Emergency and first-aid procedures.
- Control measures.

# **Material Safety Data Sheets (cont'd)**

- **Must be in English and include information regarding the specific chemical identity and common names.**
- **Must provide information about the:**
  - **Physical and chemical characteristics.**
  - **Health effects.**
  - **Exposure limits.**
  - **Carcinogenicity (cancer-causing).**
  - **Identification of the organization responsible for preparing the sheet.**
- **Must be readily accessible to employees in their work area.**



# Training

**Training is required for employees who are exposed to hazardous chemicals in their work area:**

- **At the time of initial assignment.**
- **Whenever a new hazard is introduced into their work area.**



# **What training is needed to protect workers?**

- **Explanation of the HazCom program, including information on labels, MSDSs, and how to obtain and use available hazard information.**
- **Hazards of chemicals.**
- **Protective measures such as engineering controls, work practices, and the use of PPE.**
- **How to detect the presence or release of a hazardous chemical (using monitoring devices, observation, or smell).**

# **What information must be provided to workers?**

**Employees must be informed of:**

- The HazCom standard and its requirements.**
- Operations in their work areas where hazardous chemicals are present.**
- Location and availability of the written hazard evaluation procedures, communications program, lists of hazardous chemicals, and the required MSDSs .**



# Summary

- **OSHA's Hazard Communication Standard is based on a simple concept - that employees have both a need and a right to know the hazards and identities of the chemicals they are exposed to when working.**
- **Employees also need to know what protective measures are available to prevent adverse effects from occurring.**