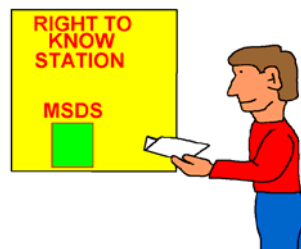


# Hazard Communication "HAZCOM"

OSHA Standard - 29 CFR 1910.1200

## Chemical Safety: Your Right to Know



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# Hazard Communication

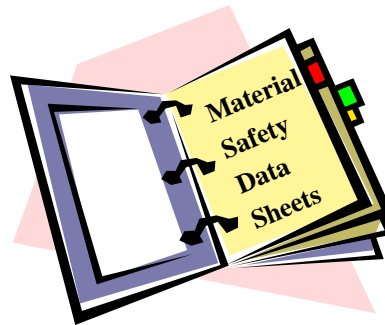
## Purpose:

- ☒ Employees have both a need and a right to know about the hazards of the chemicals they may be exposed to when working.
- ☒ Employees also need to know the protective measures to use to prevent an exposure.
- ☒ The employer's purpose is to satisfy the training requirement



# Objectives

- ⊗ Discuss chemical hazards
- ⊗ Routes of entry
- ⊗ Emergency and first aid procedures
- ⊗ Safe work procedures
- ⊗ Proper use of personal protective equipment
- ⊗ Labels and storage
- ⊗ Overview of Material Safety Data Sheets (MSDS)



# What Types of Chemicals are Common in the Workplace?

Consider chemicals in ALL forms:

☒ Liquids



☒ Solids

☒ Gases



☒ Vapors

☒ Fumes

☒ Mists



# There are two kinds of hazards associated with chemicals:

✕ HEALTH HAZARDS

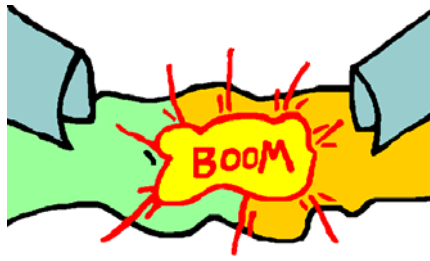
✕ PHYSICAL HAZARDS



®

# Chemical Hazards

- ⊗ **Health hazards:** Can cause illness or injury. Example: Skin irritation, lung damage, nausea, dizziness or cancer.
- ⊗ **Physical hazards:** Condition in the environment. Example: Flammable or explosive chemicals.



# Health Hazards:

☒ Acute vs. Chronic

☒ Signs and symptoms of exposure

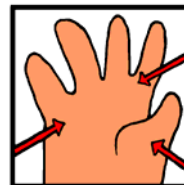
☒ Carcinogen



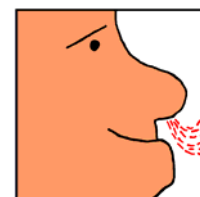
®

# Route of Entry

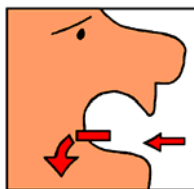
✕ ABSORPTION



✕ INHALATION



✕ INGESTION



# Emergency and First Aid Procedures

- ⊗ What do you do in case of a spill?
- ⊗ What do you do in case of an exposure to yourself or a co-worker?



# Safe Work Procedures

- ⊗ Use chemicals properly - for what they are intended
- ⊗ Do not mix chemicals - Incompatibility
- ⊗ Use appropriate Personal Protective Equipment (PPE)
- ⊗ Practice good hygiene when using chemicals - wash hands before breaks and at the end of the day



# Personal Protective Equipment

## Examples

- ☒ SAFETY GLASSES
- ☒ GOGGLES
- ☒ GLOVES - HEAVY DUTY vs. DISPOSABLE
- ☒ APRON
- ☒ BOOTS
- ☒ DUST/VAPOR RESPIRATOR
- ☒ RESPIRATOR
- ☒ FACE SHIELD

**KEEP IN MIND THAT PROPER USE OF PPE ONLY  
CREATES A BARRIER AND DOES NOT ELIMINATE THE  
HAZARD.**



# **PPE:**

- ✕ **Know what to wear for different chemical hazards**
- ✕ **Know how to store the equipment**
- ✕ **Know how to wear the equipment**
- ✕ **When in doubt, ask your supervisor!**





**WHAT  
HAZARD WARNINGS  
WILL YOU FIND  
ON A LABEL?**



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# Proper Label and Chemical Information:

**HAZARD WARNINGS**

**CAUTION**

**DANGER**

**FLAMMABLE**

**WHAT OTHER INFORMATION WILL YOU  
FIND ON A PROPER LABEL?**



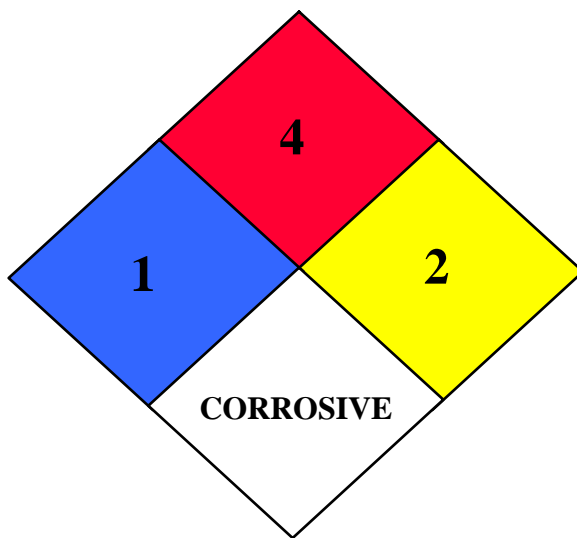
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# **LABEL INFORMATION**

- ✕ **Name of the chemical**
- ✕ **Hazard warning and safety precautions**
- ✕ **Name, address and phone number of the supplier**
- ✕ **First aid instructions**
- ✕ **Container disposal methods**



# Label and Transportation Information



PROTECTIVE  
EQUIPMENT



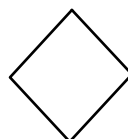
HEALTH



REACTIVITY



FIRE



HAZARD WARNING



# Storage and Transfer Containers

☒ The label will tell you how a chemical should be stored.

**Example: Flammable material cabinet.**

☒ Transfer containers must be identifiable:

- Name of the chemical
- Hazard warnings

**(Unless immediately used by the employee who dispensed it.)**



# Material Safety Data Sheets (MSDS)

- ☒ MSDS's are the primary document by which health and safety information is provided.
- ☒ All MSDS's vary but must have the following information included:
  - Product Information
  - Hazardous Ingredients
  - Physical Properties
  - Fire and Explosion Hazard Data
  - Reactivity Data
  - Health Hazard Data
  - Precaution for Safe Handling and Use
  - Control Measures



# **MSDS**

## **Employers Must:**

- ✕ Obtain them for all hazardous chemicals in the workplace
- ✕ Have them readily accessible to all employees
- ✕ Retain them for 10 years after the chemical is no longer used
- ✕ Update the MSDS every 2 years



# MSDS

## Employees Must:

➤ **Know their location**

➤ **Know how to read them**



# Hazard Communication Review:

