

Olive View Medical Center ENVIRONMENT OF CARE

“Hazard Communication”



Close Encounters with Chemicals

- We encounter chemicals almost every day
 - Filling your vehicle with gasoline
 - Cleaning the bathroom
 - Applying pesticides or insecticides
 - Using solvents or acids at work
- Many chemicals can cause injury or illness if not handled properly.

Hazard Communication 'Goals'

Your training goals are:

- Right to Know chemical hazards
- Personal Protective Equipment (PPE), first aid, spills/leaks
- Labels, Material Safety Data sheets
- Quiz

Right to Know

- The Occupational Safety & Health Administration (OSHA) created the Hazard Communication Standard to help ensure your safety when working with hazardous chemicals. (California-Cal/OSHA)
- You have a **RIGHT TO KNOW** about the hazardous chemicals you use on the job and how to work safely with those chemicals.

Hazard Communication Standard

Chemical manufacturers must:

- Determine a chemical's hazards
- Provide labels and MSDSs

Employers must:

- Provide a hazard communication program
- Maintain MSDSs
- Train on hazardous materials

HazCom Standard (cont.)

Employees must:

- Read labels and MSDSs
- Follow employer instructions and warnings
- Identify hazards before starting a job
- Participate in training



Chemical Hazards

A chemical hazard
will consist of:

Physical Hazards:

- Flammable
- Explosive
- Reactive

Health Hazards:

- Corrosive
- Toxic



Routes of Entry

Chemicals can enter the body by:

- Skin and eye contact
- Inhalation
- Swallowing
- Penetration (skin absorption)



Chemical Exposure

Chemical exposure consists of:

- Dosage
- Acute effects
- Chronic effects



Personal Protective Equipment

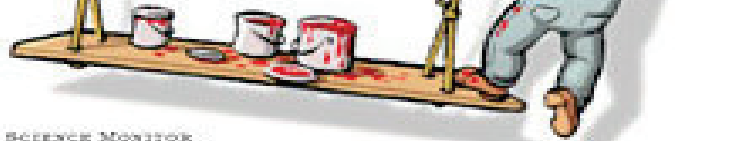
Types of PPE are:

- Dust masks and respirators
- Glasses, goggles, and face shields
- Hearing protection
- Gloves
- Foot protection
- Head protection
- Aprons or full-body suits



Hazard Communication

SAFETY
FIRST



Bennett

THE CHRISTIAN SCIENCE MONITOR

Face Mask??



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Hazardous Materials First Aid

- Eyes: Flush with water for 15 minutes
- Skin: Wash with soap and cool/cold water
- Inhalation: Quickly move to fresh air
- Swallowing: Get emergency medical assistance

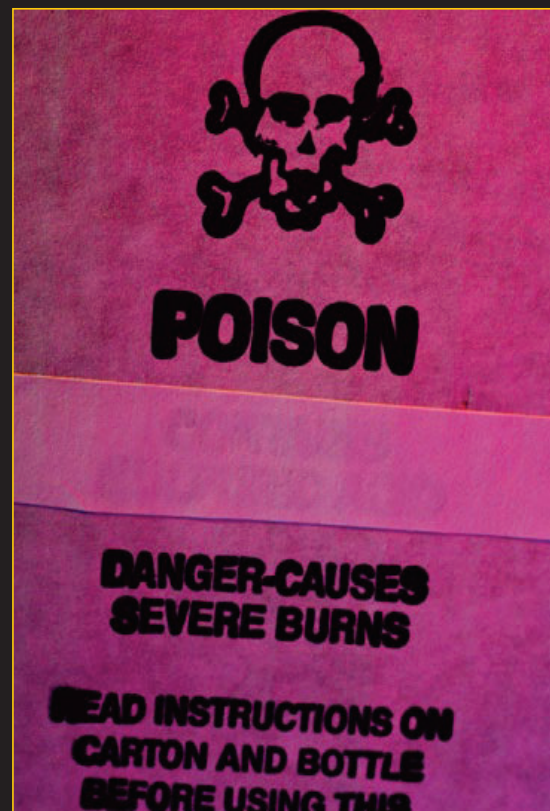


Spills and Leaks

- Evacuate the immediate area, control entry
- Post signs and/or barricades
- Notify immediate supervisor
- Notify Environmental Health & Safety dial (747) 210-3405 or Hospital Operator x111,
- If safe to do so, contain spill and remove any ignition sources

Importance of Labels

- Identity of the chemical
- Name, address, and emergency phone number of the manufacturer
- Physical and health hazards
- Special handling instructions
- Basic PPE recommendations
- First aid, fire response, spill cleanup procedure



NFPA Labeling Systems

National Fire Protection Association Label

- Blue = Health
- Red = Flammability
- Yellow = Reactivity
- White = Other hazards or special handling



Scale: 0 (No Hazard) to 4 (Extreme Hazard)

Other Label Warnings

- Identity of the chemical
- Name, address, and emergency phone number of the manufacturer
- Physical and health hazards
- Special handling instructions
- Basic PPE recommendations
- First aid, fire response, spill cleanup



(Material) Safety Data Sheet Program

- Reading an MSDS/SDS
- MSDS/SDS locations (employees should ask you the Safety Coordinators for the exact location)



MSDS vs SDS

- Two Systems – at the same time
- Provided by the manufacturer for products that contain hazardous chemical
- Detailed written safety information
- Each product containing hazardous material should have a **MSDS or SDS**
- Available in your area at all times

MSDS vs SDS

■ **MSDS** – Required Info.:

1. Product identification
2. Manufacturer identification
3. Hazardous ingredients, Permissible Exposure Limit & Threshold Limit Value
4. Physical & Chemical Properties
5. Physical Hazards

■ **SDS** - Required Format:

1. Identification
2. Hazards Identification
3. Composition/Ingredients
4. First-aid measures
5. Fire-fighting measures
6. Accidental release Measures
7. Handling & storage

MSDS vs SDS (cont.)

MSDS (cont.)

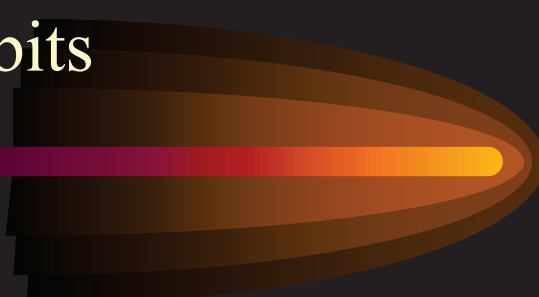
- 6. Health hazards & Potential routes of entry
- 7. Carcinogenicity
- 8. Safe use & Handling
- 9. Control measures/PPE
- 10. Spill clean-up
- 11. Emergency & first-aid
- 12. Date of preparation

SDS (cont.)

- 8. Exposure controls/ Personal protection
- 9. Physical/chemical Properties
- 10. Stability & reactivity
- 11. Toxicological info.
- 12-16. Ecological, disposal, transport, regulatory & other information.

Hazard Communication Summary

In summary:

- Identify chemical hazards by reading labels and MSDS/SDS's
 - Follow warnings and instructions, or ask your supervisor if in doubt
 - Use the correct personal protective equipment (PPE)
 - Practice sensible, safe work habits
 - Learn emergency procedures
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MSDS/SDS

- To find a specific **MSDS** or **SDS**, contact
Environmental Health &
Safety
(747) 210-3405



Hazard Communication



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Comments

■ Questions or comments??



Quiz

- Q. Chemical manufacturer's must label containers and provide _____.
- A. Material safety data sheets must be provided by the manufacturer.
- Q. Employers should keep material safety data sheets in a locked file cabinet. **True or False**
- A. **False.** MSDS/SDSs must always be accessible to the employees.
- Q. Dizziness, nausea, rashes, and respiratory irritation are signs of _____ exposure.

Quiz (cont.)

A. These are all symptoms of acute effects, or short-term exposure.

Q. List three routes by which a chemical can enter the body:
_____, _____, _____.

A. The primary routes chemicals enter the body are skin and eye contact, inhalation, and swallowing.

Q. Household chemicals are never as hazardous as chemicals used at work. **True or False**

A. **False.** Many household chemicals are more hazardous than chemicals found at work.

Quiz (cont.)

- Q. On NFPA labels, a 4 in the red diamond indicates an extreme health hazard. **True or False**
- A. **False.** The red diamond indicates flammability hazards, not health hazards.
- Q. Typical first-aid for chemicals splashed in the eyes includes _____.
- A. Flushing the eyes for 15 minutes is the typical first aid for chemicals splashed in the eyes.
- Q. You will only know the health hazards and PPE requirements if you _____.

Quiz (cont.)

- A. You must read the labels and MSDSs to learn how to protect yourself from the hazards of a chemical.
- Q. A _____ can be used to protect against breathing hazardous vapors or gases.
- A. Respirators protect against breathing hazardous vapors and gases.
- Q. If you see a chemical spill, you should clean it immediately. **True or False**
- A. **False.** Only attempt to clean a chemical spill if you've been properly trained.