

# Mount Holyoke College

## Chemical Hazard Communication

### Facilities Management

# Chemical Hazard Communication

- OSHA 'Right To Know'
- Written Program
- Training
- Container Labels
- Material Safety Data Sheets (MSDS)
- Inventory List



# Chemical Hazards

## Flammable/Combustible

- A chemical that ignites easily and burns readily
  - Aerosol cans
  - Acetone
  - Alcohol
  - Gasoline
  - Charcoal Lighter Fluid
  - Propane



# Chemical Hazards

## Corrosive

- A chemical that can damage skin and eyes causing burns or other damage.
  - Bases
    - Bleach
    - Oven Cleaner
  - Acids
    - Toilet bowl cleaner
    - Battery Acid



# Chemical Hazards

## Irritant

- Non-corrosive material that may cause temporary irritation of skin, eyes, throat etc.
- Symptoms go away after exposure stops.



# Chemical Hazards

## Toxic

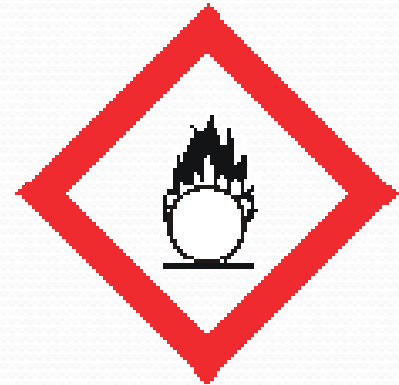
- A material that may cause health effects such as problems breathing or damage to body systems.
- Acute and chronic effects.
- OSHA establishes Permissible Exposure Limits for many chemicals.



# Chemical Hazards

## Reactive

- A chemical that may react with the environment or with other chemicals.
- Includes oxidizers like bleach.



# Container Labels

- Shipping Labels
- Manufacturer's Warnings
- NFPA Diamond / HMIS Labels

**HMIS Label**

●	HEALTH
●	FLAMMABILITY
●	REACTIVITY
○	PROTECTIVE EQUIPMENT



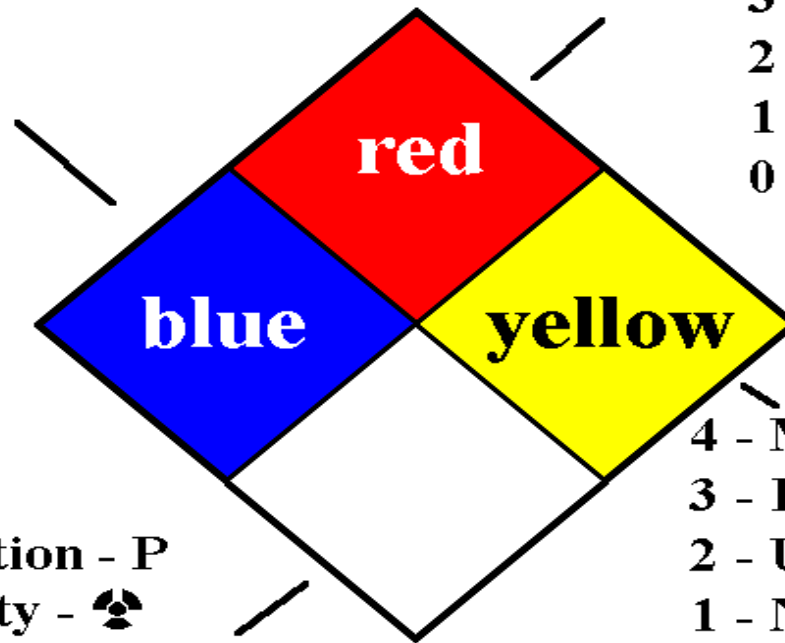
# NFPA Diamond

## Health

- 4 - Severe
- 3 - Serious
- 2 - Moderate
- 1 - Slight
- 0 - None

## Special Hazards

- ACID
- ALK
- COR
- OXY
- Polymerization - P
- Radioactivity - ☢
- Use No Water - ~~W~~



## Flammability

### Flash Points

- 4 -  $<73^{\circ}\text{F}$
- 3 -  $<100^{\circ}\text{F}$
- 2 -  $<200^{\circ}\text{F}$
- 1 -  $>200^{\circ}\text{F}$
- 0 - Will not burn

## Reactivity

- 4 - May Detonate
- 3 - Explosive
- 2 - Unstable
- 1 - Normally Stable
- 0 - Stable

# Material Safety Data Sheets (MSDS)

- Identity of Material and Manufacturer
- Hazardous Ingredients
- Physical and Chemical Characteristics
- Fire and Explosion Hazard Data
- Reactivity Data
- Health Hazard Data (Limits, Symptoms, etc.)
- Precautions for Safe Handling
- Control Measures and First Aid

# MSDS/Chemical Inventory

- The MSDS for all Facilities Management Departments are located in the main office in the Otto C. Kohler building
- Check with your Supervisor
- Additionally, the Office of Environmental Health & Safety maintains copies
- If you are using a new product, make sure we have an MSDS on file
- Ask your supervisor or contact EH&S (x 2529) with questions regarding MSDS

# Chemical Safety

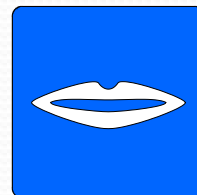
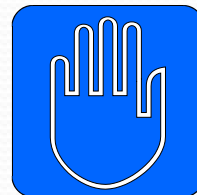
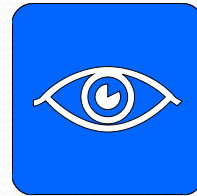
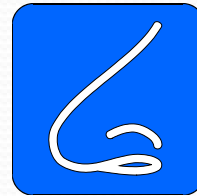
## Container Labeling

If you transfer material from the original container to another container it **must** be labeled with the chemical name and hazard



# Routes of Entry

- Inhalation
- Skin/Eye Contact
- Skin Absorption
- Ingestion



# Recognizing Exposure or Release

- visual appearance and odor
- symptoms of exposure
- exposure monitoring

# Chemical Safety

## Personal Protective Equipment (PPE)

- Skin Protection
- Eye/Face Protection
- Respiratory Protection



# Chemical Splash in Eyes or on Skin

- Flush the eye or area with saline or clean water for 15 minutes.
- Notify your supervisor
- Call Campus Police if first aid or medical transport is needed.
- For all eye contamination, seek medical evaluation.
- For skin contamination, seek medical evaluation if there is visible damage or a large area was contaminated.





# MHC Emergency Number

**Campus Police**

**X 1911**

(from a campus phone)

**413-538-2304**

(from a cell phone)

# Questions ?

- ask your supervisor
- ask Environmental Health & Safety
  - ext. 2529
  - [env-health-safety@mtholyoke.edu](mailto:env-health-safety@mtholyoke.edu)