### Chemical Hazard

October 2023

### Housekeeping



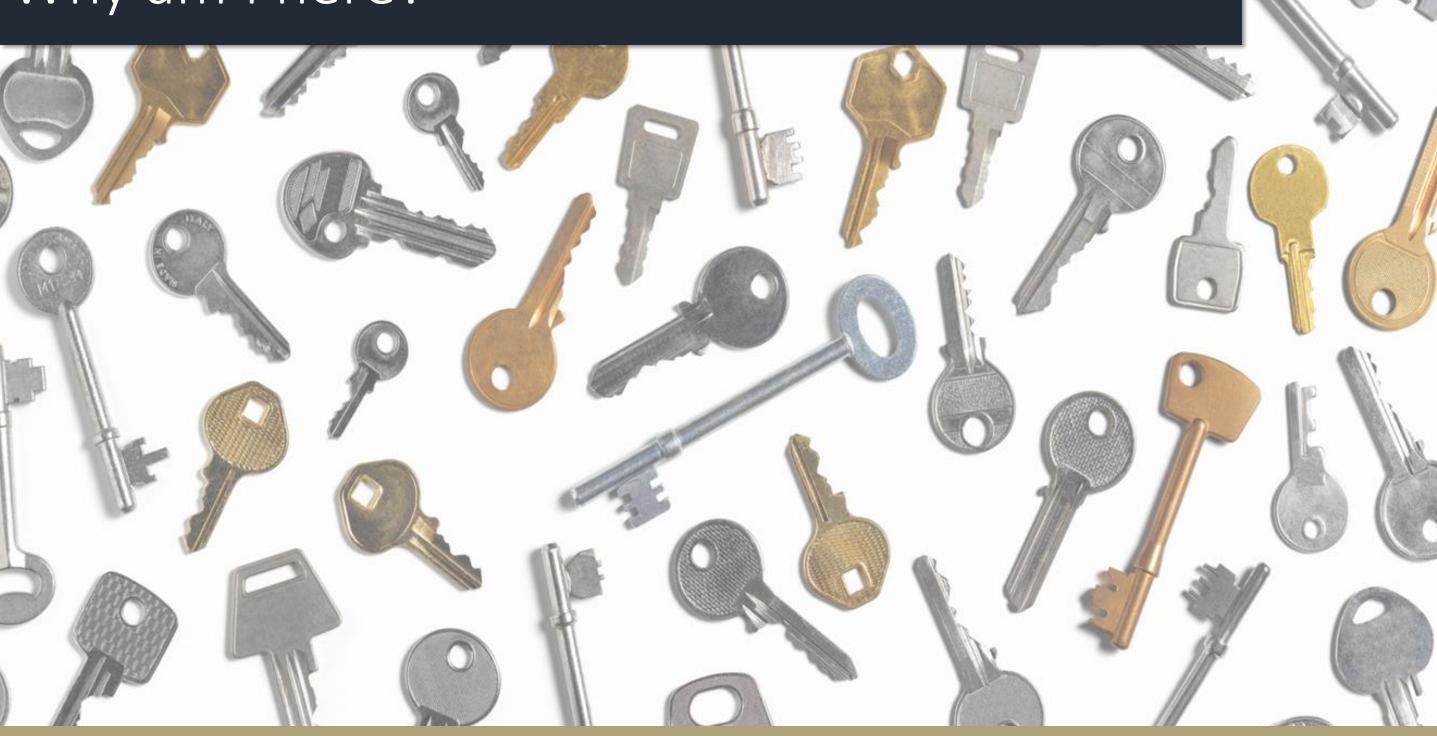
## Muster Point

### Presenter & Introductions



# Safety begins with me!

### Why am I here?



# You are the KEY to SAFETY!

### Chemical Hazards and Toxic Substances





### Types of Chemicals



### Types of Chemicals, cont.



- Organic Peroxides
- Water Reactive
- Air Reactive
- Sensitizers
- Teratogens

### Routes of Exposure



### Symptoms of Chemical Exposure

#### Neurologic

#### Respiratory

#### Cardiovascular

#### Immunologic

### Severity of Health Effects



#### **Chronic Health Effects**

#### **Acute Health Effects**

### Workers' "Right to Know" Law

#### Employers are required

- to ensure that all employees know the hazards of chemicals they work with at their jobs
- to ensure that employees are provided with information about chemicals they work with through:

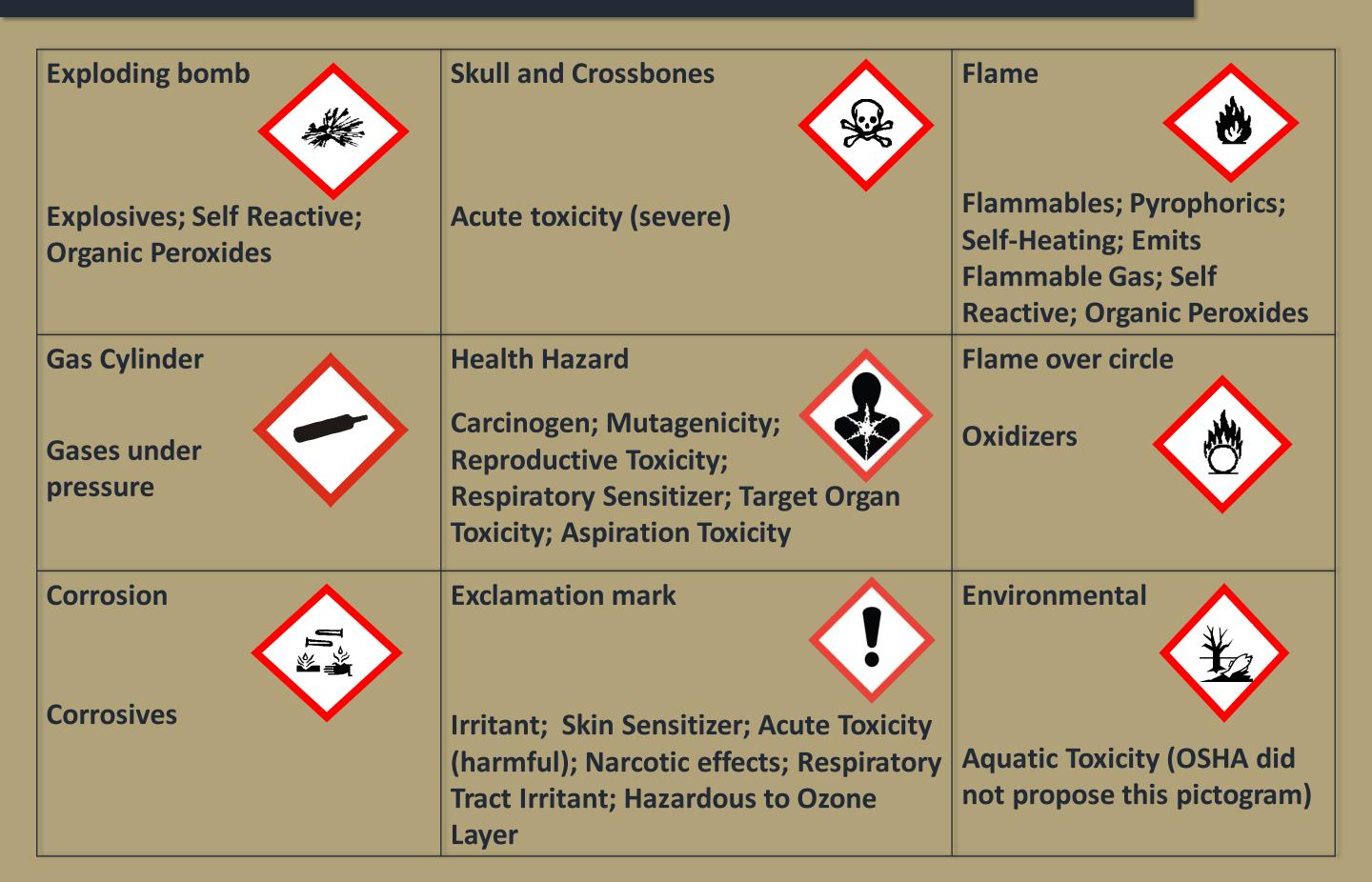
XELO

- Information on chemical labels
- Safety Data Sheets (SDSs)
- Training on hazard communication (HAZCOM)
- Written HAZCOM plan

### Globally Harmonized System (GHS)



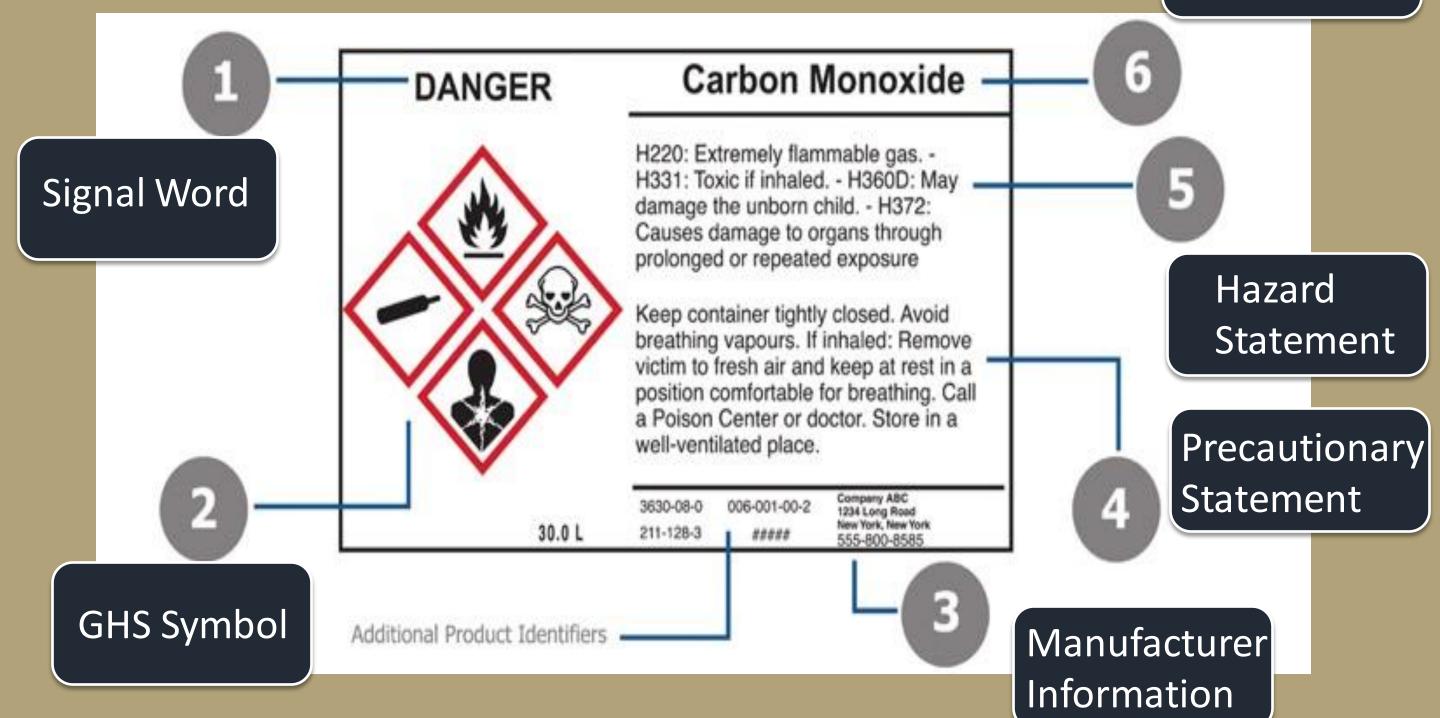
### Globally Harmonized System (GHS), cont.



### Container Labeling in the Workplace

There are 6 elements of a GHS label:

Product Name



https://www.bradyid.com/en-us/applications/ghs-labeling-requirements

### Primary vs Secondary Container Labeling

### Safety Data Sheets



### Safety Data Sheets, cont.

- 1. Identification
- 2. Hazard(s) identification
- 3. Composition/information on ingredients
- 4. First-aid measures
- 5. Fire-fighting measures
- 6. Accidental release measures
- 7. Handling and storage
- 8. Exposure control/personal protection
- 9. Physical and chemical properties
- 10. Stability and reactivity
- 11. Toxicological information
- 12. Ecological information
- 13. Disposal considerations
- 14. Transport information
- 15. Regulatory information
- 16. Other information

OSHA requires sections 1-11 and 16 be mandatory

#### Not regulated by OSHA

### Chemical Hazard Control Approaches



(2) Review and Follow Work Policies and Procedures

(3) Wear Personal Protective Equipment

### Personal Protective Equipment (PPE)









### One Team

# **QUESTIONS?**