

# Hazard Communication

## Globally Harmonized System of Classification and Labeling of Chemicals

### GHS pictograms and hazard classes

 Health hazard

 Physical hazard

 Environmental hazard



#### Skull and Crossbones

- Acute toxicity (fatal or toxic)



#### Exclamation Mark

- Irritant (skin and eye)
- Skin sensitizer
- Acute toxicity
- Narcotic effects
- Respiratory tract irritant
- Hazardous to ozone layer (Non-mandatory)



#### Health Hazard

- Carcinogen
- Mutagenicity
- Reproductive toxicity
- Respiratory sensitizer
- Target organ toxicity
- Aspiration toxicity



#### Corrosion

- Skin corrosion/burns
- Eye damage
- Corrosive to metals



#### Flame

- Flammables
- Pyrophorics
- Self-heating
- Emits flammable gas
- Self-reactives
- Organic peroxides



#### Exploding Bomb

- Explosives
- Self-reactives
- Organic peroxides



#### Gas Cylinder

- Gases under pressure



#### Flame Over Circle

- Oxidizers



#### Environment

- (Non-mandatory)
- Aquatic toxicity

### Sample Label

All chemicals and accompanying Safety Data Sheets must meet the requirements of the Globally Harmonized System of Classifying and Labeling of Chemicals (GHS). This poster includes examples of the new standardized formats and pictograms. Chemical labels must include:

- 1. Product identifier**
- 2. Supplier identification**
- 3. Precautionary statement:** Provides information about how to prevent exposure to a chemical, how to respond to exposure, and how to store the chemical properly.
- 4. Pictogram:** A symbol that is intended to quickly convey specific information about the hazards of a chemical. It is a black symbol on a white background within a red diamond.
- 5. Signal word:** Indicates the severity of the hazard. **WARNING** used for less severe hazards. **DANGER** used for severe hazards.
- 6. Hazard statement:** Describes the nature of the hazard.
- 7. Supplemental information:** Contains extra information like direction for use and size of the container.

#### 1. Product identifier

CODE \_\_\_\_\_  
Product Name \_\_\_\_\_

#### 2. Supplier identification

Company Name \_\_\_\_\_  
Street address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Postal Code \_\_\_\_\_  
Country \_\_\_\_\_  
Emergency Phone Number \_\_\_\_\_

#### 3. Precautionary statement

Keep container tightly closed. Store in a cool, well-ventilated place that is locked.

Keep away from heat/sparks/open flame. No smoking.  
Only use non-sparking tools.

Use explosion-proof electrical equipment.

Take precautionary measures against static discharge.

Ground and bond container and receiving equipment.

Do not breathe vapors.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Dispose of in accordance with local, regional, national, international regulations as specified.

**In Case of Fire:** use dry chemical (BC) or Carbon Dioxide (CO2) fire extinguisher to extinguish.

**First Aid:** If exposed call Poison Center. If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.

#### 4. Pictograms



#### 5. Signal word

**DANGER**

#### 6. Hazard statement

Highly flammable liquid and vapor.  
May cause liver and kidney damage.

#### 7. Supplemental information

Directions for Use

\_\_\_\_\_

Fill weight: \_\_\_\_\_  
Lot Number: \_\_\_\_\_  
Gross weight: \_\_\_\_\_  
Fill Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

### Safety Data Sheets

The new Safety Data Sheets (SDS) will contain a 16-section standardized format.

#### Section 1, Identification

#### Section 2, Hazard(s) identification

#### Section 3, Composition/information on ingredients

#### Section 4, First-aid measures

#### Section 5, Fire-fighting measures

#### Section 6, Accidental release measures

#### Section 7, Handling and storage

#### Section 8, Exposure controls/personal protection

#### Section 9, Physical and chemical properties

#### Section 10, Stability and reactivity

#### Section 11, Toxicological information

#### Section 12, Ecological information\*

#### Section 13, Disposal considerations\*

#### Section 14, Transport information\*

#### Section 15, Regulatory information\*

#### Section 16, Other information

\*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15 (29 CFR 1910.1200(g)(2)).