

# Labeling Elements of the Globally Harmonized System (GHS)

The Globally Harmonized System (GHS) of Classification and Labelling of Chemicals is a world-wide initiative to promote standard criteria for classifying chemicals according to their health, physical and environmental hazards. It uses pictograms, hazard statements, and the signal words “Danger” and “Warning” to communicate hazard information on product labels in a logical and comprehensive way.

## Sample GHS Label

CODE \_\_\_\_\_ } **Product Identifier**  
 Product Name \_\_\_\_\_ }

Company Name \_\_\_\_\_ } **Supplier Identification**  
 Street Address \_\_\_\_\_ }  
 City \_\_\_\_\_ State \_\_\_\_\_ }  
 Postal Code \_\_\_\_\_ }  
 Emergency Phone Number \_\_\_\_\_ }

### Hazard Pictograms



**Signal Word**  
 Danger

Highly flammable liquid and vapor. } **Hazard Statements**  
 May cause liver and kidney damage. }

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.

### Precautionary Statements

In Case of Fire use dry chemical (BC) or Carbon Dioxide (CO) 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.

### Supplemental Information

Directions for Use

\_\_\_\_\_  
 \_\_\_\_\_

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

## Labeling Elements of the Globally Harmonized System (GHS) Continued

Manufacturer's labels will require the following elements (as defined by OSHA):

**Pictogram:** a symbol plus other graphic elements, such as a border, background pattern, or color that is intended to convey specific information about the hazards of a chemical. Each pictogram consists of a different symbol on a white background within a red square frame set on a point (i.e. a red diamond). There are nine pictograms under the GHS. However, only eight pictograms are required under the HCS.

**Signal words:** a single word used to indicate the relative level of severity of hazard and alert the reader to a potential hazard on the label. The signal words used are "danger" and "warning." "Danger" is used for the more severe hazards, while "warning" is used for less severe hazards.

**Hazard Statement:** a statement assigned to a hazard class and category that describes the nature of the hazard(s) of a chemical, including, where appropriate, the degree of hazard.

**Precautionary Statement:** a phrase that describes recommended measures to be taken to minimize or prevent adverse effects resulting from exposure to a hazardous chemical, or improper storage or handling of a hazardous chemical.

### GHS - Hazard Pictograms and Hazards

#### Physical Hazards



- Explosives
- Self-Reactives
- Organic Peroxides



- Flammables
- Pyrophorics
- Self-Heating
- Emits Flammable Gas
- Self-Reactives
- Organic Peroxides



- Oxidizers



- Gases under Pressure



- Corrosive to Metals

#### Health Hazards



- Acute Toxicity (fatal or toxic)



- Skin Corrosion/Burns
- Eye Damage



- Irritant (skin and eye)
- Skin Sensitizer
- Acute Toxicity (harmful)
- Narcotic Effects
- Respiratory Tract Irritant
- Hazardous to Ozone Layer (Non-Mandatory)



- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target Organ Toxicity
- Aspiration Toxicity

(Non-Mandatory)



- Aquatic Toxicity