

# QUICK ReferenceChart

# OSHA/GHS HAZARD COMMUNICATION STANDARD

## HAZARD PICTOGRAMS



### EXPLODING BOMB

- Explosives
- Self-Reactives
- Organic Peroxides



### CORROSION

- Skin Corrosion/ Burns
- Eye Damage
- Corrosive to Metals



### ENVIRONMENT

- Aquatic Toxicity



### FLAME OVER CIRCLE

- Oxidizers



### SKULL AND CROSSBONES

- Acute Toxicity (Fatal or Toxic)



### GAS CYLINDER

- Gases Under Pressure



### FLAME

- Flammable
- Pyrophoric
- Self-Heating



### HEALTH HAZARDS

- Carcinogen
- Mutagenicity
- Reproductive Toxicity



### EXCLAMATION MARK

- Irritant (Skin and Eye)
- Skin Sensitizer
- Acute Toxicity (Harmful)
- Narcotic Effects

- Devote Flammable Gas
- Self-Reactives
- Organic Peroxides

- Respiratory Sensitizer
- Target Organ Toxicity
- Aspiration Toxicity

- Respiratory Tract Irritant
- Hazards to Ozone Layer (Non-Mandatory)

## PRECAUTIONARY STATEMENTS

**PREVENTION:** Statements meant to prevent harm.  
EXAMPLE: Do not get in eyes, on skin, or on clothing.

**STORAGE:** Statements explaining safe storage.  
EXAMPLE: Store in a well-ventilated place.

**RESPONSE:** Statements giving instructions in case of exposure to a chemical hazard.  
EXAMPLE: Rinse skin with water (Gaseous).

**DISPOSAL:** Statements explaining proper disposal practices.  
EXAMPLE: Dispose of contents/container to \_\_\_\_\_

## MINIMUM REQUIREMENTS FOR A SAFETY DATA SHEET

- IDENTIFICATION:** This section identifies the chemical on the SDS as well as the recommended uses. It also provides the essential contact information of the supplier.
- HAZARD IDENTIFICATION:** This section identifies the hazards of the chemical, presented on the SDS and the appropriate warning information associated with these hazards.
- COMPOSITION/INFORMATION ON INGREDIENTS:** This section identifies the ingredients contained in the product indicated on the SDS, including impurities and stabilizing additives. This section includes information on mixtures, mixtures, and all chemicals where a trade secret is claimed.
- FIRST-AID MEASURES:** This section describes the initial care that should be given by untrained responders to an individual who has been exposed to the chemical.
- FIREFIGHTING MEASURES:** This section provides recommendations for fighting a fire caused by the chemical.
- ACCIDENTAL RELEASE MEASURES:** This section provides recommendations on the appropriate response to spills, leaks, or releases, including containment and cleanup practices to prevent an immediate exposure to people, properties or the environment. It may also include appropriate actions distinguishing between responders for large and small spills where the spill volume has a significant impact on the hazard.
- HANDLING AND STORAGE:** This section provides guidance on the safe handling practices and conditions for safe storage of the chemical.
- EXPOSURE CONTROLS/PERSONAL PROTECTION:** This section indicates the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure.
- PHYSICAL AND CHEMICAL PROPERTIES:** This section identifies physical and chemical properties associated with the substance or mixture.

- STABILITY AND REACTIVITY:** This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other.
- TOXICOLOGICAL INFORMATION:** This section identifies toxicological and health effects information or indicates that such data are not available.
- ECOLOGICAL INFORMATION (NON-MANDATORY):** This section provides information to evaluate the environmental impact of the chemical if it were released into the environment.
- DISPOSAL CONSIDERATIONS (NON-MANDATORY):** This section provides guidance on proper disposal practices, including an explanation of the chemical's or its container and safe handling practices. To ensure exposure, this section should refer to the material in Section 8 (Exposure Controls/Personal Protection) of the SDS.
- TRANSPORT INFORMATION (NON-MANDATORY):** This section provides guidance on disposal of use information for shipping and transporting of hazardous chemicals by road, air, rail, or sea.
- REGULATORY INFORMATION (NON-MANDATORY):** This section identifies the safety, health, and environmental regulations specific to the product that are not indicated anywhere else on the SDS.
- OTHER INFORMATION:** This section indicates when the SDS was prepared or when the last known revision was made. The SDS may also state where the changes have been made to the previous version. You may wish to contact the supplier for an explanation of the changes. Other useful information also may be included here. While labels have a six-month update requirement for information regarding hazards, the new SDS has a three-month requirement. GHS pictograms may be used in the SDS; the symbol name may be substituted if use of the pictogram is not feasible. All of the material on an important must ensure the SDS is provided in English and must provide copies in other languages, as applicable.

## MINIMUM REQUIREMENTS FOR A CHEMICAL LABEL



**PENTANE**  
CAS 109-65-0

**DANGER**

Extremely flammable gas. Contains gas under pressure. May explode if heated. Gas may require a cylinder in confined spaces.

Keep away from heat, open flames, hot surfaces. No smoking. Protect from sunlight. Store in a well-ventilated place. Leaking gas fire: Do not extinguish unless the leak can be stopped safely. Complete extinguishment should be achieved. Gas cylinder: For reported gas, flush eyes with lukewarm water. Seek immediate attention. Skin contact: Unpressurized gases may cause cryogenic burns. Test burned or frostbitten skin by flushing or warming the affected area(s). Unknown cause: Do not rub the affected area. Inhalation: If respiratory symptoms develop, move the victim away from the source of exposure and into fresh air. Seek medical attention.

Company XYZ | 10000 N. Linden Ave., Miami, FL 33000 | 800-000-0000

- GHS Pictograms:** Standardized set of symbols which convey health, physical, and environmental hazard information.
- Product Identifier:** Name or number used for a hazardous product on a label or in the SDS.
- Signal Words:** "Danger" or "Warning" are used to emphasize hazards and indicate the relative level of severity of the hazard assigned to a GHS hazard class and category.
- Hazard Statements:** Standard phrases assigned to a hazard class and category that describe the nature of the hazard.
- Precautionary Statements:** Measures to minimize or prevent adverse effects.
- Supplier Identification:** Company name, address, and phone number should be listed on the label.

# Osha Quick Reference Guide

**M Mosston**



## **Osha Quick Reference Guide:**

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web check 3 15 10 3 0 050 100 6 28 3 15 10 3 0 050 100 6 28 this value is greater than 5 so a more exact method such as successive approximations must be used ca 2 2 8 10 3 m oh 0 053 10 2 m

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web mar 13 2023 because the masses of atoms are so small it is more convenient to give nuclide masses in atomic mass units abbreviated amu or u the latter is the official si abbreviation rather grams the atomic mass unit is defined as follows one atomic mass unit is defined as 1 12 of the mass of ce 12 6 c atom

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web if you start with 14.82 g of  $\text{Ca(OH)}_2$  and 16.35 g of  $\text{H}_2\text{SO}_4$  determine the limiting reagent b determine the number of moles of  $\text{H}_2\text{O}$  produced c determine the number of grams of  $\text{CaSO}_4$  produced d determine the number of grams of excess reagent left 1 make sure the equation is balanced

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