

# Standard and Regulation

## OBJECTIVES

- Standard/ Definition
- Regulation/ Definition
- Introduction
  - Occupational Safety and Health Administration
- The Globally Harmonized System of classification and Labelling of chemicals (GHS)
  - Labels
  - Safety Data Sheet(SDS)
  - Format Safety Data Sheet(SDS)
  - Handling and storage

# Standard and Regulation

## **Standard/ Definition**

- level of quality or attainment.
- something used as a measure, norm, or model in comparative evaluations.
- something considered by an authority or by general consent as a basis of comparison; an approved model.
- an object that is regarded as the usual or most common size or **form** of its kind:

# Standard and Regulation

## Regulation/ Definition

1. A rule or directive made and maintained by an authority.
- 2- The action or process of regulating or being regulated.
- 3- A law, rule, or other order prescribed by authority, especially to regulate conduct.
- 4- The act of regulating or the state of being regulate.

# Standard and Regulation

## Introduction

-To assure safe and healthful working conditions for working men and women; by authorizing enforcement of the standards developed under the Act; by assisting and encouraging the States in their efforts to assure safe and healthful working conditions; by providing for research, information, education, and training in the field of occupational safety and health; and for other purposes.

-This Act is "Occupational Safety and Health Act of 1970."

OSHA

# Standard and Regulation

## Introduction

## Occupational Safety and Health Administration

-(OSHA) the United States government agency that administers the Occupational Safety and Health Act of 1970.

-This act of the United States Congress established minimum health and safety standards for workers and provides for the inspection of places of employment and the penalizing of employers who do not provide conditions that meet the established standards.

# Standard and Regulation

OSHA

## OSHA SAFETY SIGN STANDARDS



# Standard and Regulation

## Introduction

## Occupational Safety and Health Administration

-the Occupational Safety and Health Administration (OSHA) to assure safe and healthful working conditions for working men and women by setting and enforcing standards and by providing training, outreach, education and assistance.

# Standard and Regulation

## **The Globally Harmonized System of classification and Labelling of chemicals (GHS):**

- It is used to classify and Label the chemical hazards.
- It is a common and coherent approach to define and classify hazards.
- Communicating information on (Labels and safety data sheet)



# Standard and Regulation

The Globally Harmonized System of classification and Labelling of chemicals (GHS):



# Standard and Regulation

**The Globally Harmonized System of classification and Labelling of chemicals (GHS):**

**Labels:**

- Signal words (danger or warning)
- Should include appropriate precautionary information.

# Standard and Regulation

## The Globally Harmonized System of classification and Labelling of chemicals (GHS):

### Labels:



#### CORROSION

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



#### EXCLAMATION MARK

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



#### EXPLODING BOMB

- Explosives
- Self-Reactives
- Organic Peroxides



#### SKULLS & CROSSBONES

- Acute Toxicity (fatal or toxic)



#### FLAME

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



#### GAS CYLINDER

- Gases Under Pressure



#### ENVIRONMENT

- Aquatic Toxicity



#### HEALTH HAZARDS

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



#### FLAME OVER CIRCLE

- Oxidizers

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**The Globally Harmonized System of classification and Labelling of chemicals (GHS):**

**Safety Data sheet (SDS):**

- Should provide complete information about a chemical substance or mixture.
- This information enables the employer to develop an active program of worker protection including training specific to the workplace.
- Should be produced for all substances and mixtures.

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**The Globally Harmonized System of classification and Labelling of chemicals (GHS):**

**Format of Safety Data Sheet:**

- Identification.
- Hazard identification.
- Composition.
- First aid measures.
- Fire-fighting measures.
- Accident release measures.

# Standard and Regulation

The Globally Harmonized System of classification and Labelling of chemicals (GHS):

Safety Data sheet (SDS):



# Standard and Regulation

## The Globally Harmonized System of classification and Labelling of chemicals (GHS):

### Handling and storage

- Chemical and physical properties.
- Stability and reactivity.
- Toxicology information.
- Transport information.
- Other information.

# Standard and Regulation

## **The Globally Harmonized System of classification and Labelling of chemicals (GHS):**

The Globally Harmonized System (GHS) will provide all countries with a structure to classify and label chemical hazardous. It will help insure that the information is provided on all imported and exported chemicals worldwide.