



### INTRODUCTION

A chemical can be any pure substance or a mixture, and it can be in the form of solid, liquid or gas.

Hazardous chemicals is a material that has physical or chemical characteristics for potentially causing harm to workers or other people.



### CHEMICAL SAFETY CHECKLIST

- ✓ Provide easy access to Safety Data Sheet (SDS)
- ✓ Be aware of all hazards, including the risk of violent chemical reactions.
- ✓ Provide adequate ventilation in the storage area.
- ✓ Never eat, drink or smoke while handling chemicals.
- ✓ Securely close chemical containers immediately after use
- ✓ Familiarize with the storage requirement of each type of chemicals.



**GLOBALLY  
HARMONIZED  
SYSTEM  
(GHS)  
PICTOGRAM**

### DO

- ✓ Restrict storage access to authorized personnel only.
- ✓ Read the labels and follow the instructions.
- ✓ Use PPE as required.
- ✓ Ensure safe stacking of chemicals.
- ✓ Plan ahead for accidental spills.



### DON'T

- ✗ Keep away from the respiratory tract (nose and mouth).
- ✗ Avoid contact with skin and eyes.
- ✗ Do not leave chemicals unattended.
- ✗ Do not mix chemical products.



### CHEMICAL/PHYSICAL RISK



#### FLAMMABLE

Flammable if exposed to ignition sources, sparks or heat.



#### CORROSIVES

May cause skin burns and permanent eye damage.



#### EXPLOSIVES

May explode if exposed to fire, heat, shock or friction.



#### COMPRESSED GAS

Contains gas under pressure.



#### OXIDISING

Creates oxygen which will intensify fire combustible material.

### HEALTH RISK



#### SEVERE TOXIC

May cause life threatening effects even in small amounts and short term exposure



#### ACUTE TOXIC

May cause irritation or less serious toxicity if ingested or inhaled.



#### HEALTH DANGER

May cause serious health effects on short or long term exposure.

### ENVIRONMENTAL RISK



#### ENVIRONMENT HAZARD

Toxic to aquatic organisms and may cause long lasting effects to ecosystem.



1. SHENA Brochure:  
Safe Handling of  
Hazardous Chemicals at  
Workplace



2. United Nations' GHS  
(Globally Harmonized  
System) Pictogram



3. Chemical Hazards  
Communication Society,  
United Kingdom

