



# Finding Hazards Information

Prepared by:

Ms. Sadia Tariq

# Contents

- a) Material safety data sheets (MSDS)
- b) Safety Data Sheets (SDS)
- c) GHS (Globally Harmonized Systems)

# Material Safety Data Sheet

A material safety data sheet is a technical document which provides detailed and comprehensive information on a controlled product related to:

- i. Health effects of exposure to the product
- ii. Hazard evaluation related to the product's handling, storage or use
- iii. Measure to protect workers at risk of exposure
- iv. Emergency procedures

# MSDS to SDS

- MSDS (Material Safety Data Sheet) is now called an SDS (Safety Data Sheet).
- Purpose of both MSDS and SDS documents remains unchanged and is to list the information pertaining to the occupational health and safety for the various uses of the substances and products.
- MSDS and SDS are where you go if you need more information on the product and what to do if there is exposure to product or a spill.

# MSDS vs SDS

SDS	MSDS
SDS stands for Safety Data Sheet	MSDS stands for Material Safety Data Sheet
Safety Data Sheets provide more standardization and a 16-section format	Material Safety Data Sheet provides 9-section format
SDS is a simpler and more effective way to communicate the hazards of the chemicals used.	MSDS is a complex document which provides information about only dangerous chemical hazards
It is easier for employees to find the information they need for chemicals.	MSDS is in different formats for the information, so nothing was regulated.

# Sections of Safety Data Sheets

1. Identification
2. Hazard(s) identification
3. Composition/information on ingredients
4. First-aid measures
5. Fire-fighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure controls/personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transport information
15. Regulatory information
16. Other information

# Sections of Material Safety Data Sheets

1. Manufacturer Information
2. Hazard Ingredients/ Identity Information
3. Physical/ Chemical Characteristics
4. Fire and Explosion Hazard Data
5. Reactivity Data
6. Health Hazard Data
7. Precautions for Safe Handling and Use
8. Control Measures

# Globally Harmonized System of Classification and Labelling of Chemicals

- The Globally Harmonized System of Classification and Labelling of Chemicals also known as GHS is an internationally agreed-upon standard managed by the United Nations that was set up to replace the assortment of hazardous material classification and labelling schemes previously used around the world.
- It is the culmination of many years of discussion between governments and industries.



# What is the Globally Harmonized System (GHS)?

- The new system, which was called "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)", addresses classification of chemicals by types of hazard and proposes harmonized hazard communication elements, including labels and safety data sheets.
- It aims at ensuring that information on physical hazards and toxicity from chemicals be available in order to enhance the protection of human health and the environment during the handling, transport and use of these chemicals.
- The GHS also provides a basis for harmonization of rules and regulations on chemicals at national, regional and worldwide level, an important factor also for trade facilitation.