

# HOW TO READ A SAFETY DATA SHEET

## OSHA Brief:

Requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets (SDS) for hazardous chemicals or materials. The SDS is a key document for workers. The SDS is prepared in accordance with the OSHA Hazard Communication Standard (HCS). The SDS provides guidance to help workers who handle hazardous chemicals to become familiar with the formal and understand the contents of the SDS.

The SDS provides information on the chemical's physical, health, and environmental health hazards; protective measures; and safety precautions for handling, storing, and transporting the chemical. The information contained in the SDS is required to be provided to employees in a language they understand. OSHA requires that SDSs prepared provide specific information as detailed in Appendix D of 29 CFR (29 CFR 1910.1200). The SDS prepared may also include additional information as required by other agencies.

Sections 1 through 8 contain general information about the chemical, identification, hazards, composition, safe handling practices, and emergency control measures (e.g., spill and leak response) that are provided to the user. Sections 9 through 11 and 13 contain other important safety information such as physical and chemical properties, stability and reactivity information, and toxicological information. Sections 12 and 14 contain information including the date of preparation or last revision. The SDS must also state that it is applicable to the material as found when the preparer starts, but not relevant information for any subsequent use.

## Section 1: Identification

This section identifies the chemical on the SDS as well as the recommended uses. It also provides the recommended container contents.

- Product identifier used on the label and any other names or synonyms by which the substance is known.
- Name, address, phone number of the manufacturer, distributor, or other responsible party, and emergency phone number.
- Recommended use of the chemical (e.g., a fertilizer) and any restrictions on use (e.g., do not apply to animals) and any use restrictions (e.g., do not apply to crops).



## Section 2: Hazard(s) Identification

This section identifies the hazard(s) of the chemical and appropriate warning labels that must be used with the chemical. The hazard and appropriate warning labels are based on the chemical's physical, health, and environmental hazard(s).

- The hazard classification of the chemical (e.g., flammable liquid, category 2).
- Signal word.
- Hazard statements.
- Pictograms or hazard symbols may be presented as graphical representations of the symbols in black and white or as a description of the name of the symbol (e.g., skull and crossbones, flame).
- Hazard identification.
- Description of any hazards not otherwise classified.
- For a mixture that contains an ingredient with a known toxicity, a statement of the known acute toxicity (Hazard Code) that this is a total (sum) of the hazard and not based on the individual ingredients.



## Section 3: Ingredients Information

This section identifies the chemical composition of the chemical on the SDS, including impurities and stabilizing additives. This section includes information on substances, mixtures, and all chemicals where a trade secret is claimed. The required information is as follows:

- Chemical name.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Impurities and stabilizing additives, which are themselves classified and which are also included in the chemical mixture.
- Some information is required for substances:
  - The total concentration (i.e., total percentage) of all ingredients which are classified as health hazards and are present above their oral-inhalation limits or are present in a quantity which is above the hazard levels.
  - The concentration (weight percent) of each ingredient must be specified except in a concentration range may be used in the following situations:
    - When the concentration is not known.
    - When the SDS is used for a group of substantially similar mixtures.
  - A statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.



## Section 4: First-Aid Measures

This section describes the most cases that should be given by personnel responding to an individual who has been exposed to the chemical. The required information includes:

- Relevant routes of exposure.
- Necessary first aid measures.
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).

## Section 5: Fire-Fighting Measures

This section provides recommendations for fighting a fire caused by the chemical. The required information includes:

- Recommended fire extinguishing equipment, and information about extinguishing equipment that is not appropriate for a particular situation.
- Relevant hazards that may arise from the fire, such as any hazardous combustion products created when the chemical burns.

## Section 6: Accidental Release Measures

This section provides recommendations for the appropriate response to spills, leaks, or releases that may occur and cleaning up. The required information includes:

- Use of personal precautions (such as removal of ignition sources or providing adequate ventilation) and procedures to be followed (e.g., evacuation, spill control, and cleanup).
- Emergency procedures, including instructions for a spill or release response.
- Relevant hazards that may arise from the spill or release (e.g., fire, explosion, or reaction).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).

## Section 7: Handling and Storage

This section provides guidance on the safe handling practices and safe storage of chemicals. The required information includes:

- Relevant hazards that may arise from the handling or storage of the chemical.
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).

## Section 8: Exposure Controls/Personal Protection

This section provides information on the appropriate response to spills, leaks, or releases that may occur and cleaning up. The required information includes:

- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).



## Section 9: Physical/Chemical Properties

This section identifies physical and chemical properties associated with the chemical. The required information includes:

- Appearance (physical state, color, etc.).
- Odor (threshold).
- Odor strength.
- Color (threshold).
- Color strength.
- pH.
- Relative density.
- Refractive index.
- Boiling point.
- Melting point.
- Freezing point.
- Flash point.
- Flammable limits.
- Autoignition temperature.
- Decomposition temperature.
- Stability.
- Reactivity.
- Chemical stability.
- Chemical reactivity.
- Chemical reactivity.
- Chemical reactivity.



## Note:

**Business Contacts:**  
**Responsible Manager:**  
**Company:**  
**Address:**  
**City:**  
**State:**  
**Zip:**  
**Country:**  
**Phone:**  
**Fax:**  
**OSHA:**  
**Other:**

## Section 10: 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 chemical stability information.

- Reactivity: Information on the chemical's reactivity with water, air, oxidizers, acids, bases, and other chemicals.
- Chemical stability: Information on the chemical's stability under normal conditions.
- Other chemical stability information: Information on the chemical's stability under abnormal conditions.

## Section 11: Toxicological Information

This section provides information on the chemical's toxicity. The required information includes:

- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).



## Section 12: Ecological Information

This section provides information on the chemical's ecological toxicity. The required information includes:

- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).



## Section 13: Disposal Considerations

This section provides information on the chemical's disposal. The required information includes:

- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).



## Section 14: Transport Information

This section provides information on the chemical's transport. The required information includes:

- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).

## Section 15: Regulatory Information

This section identifies the safety, health, and environmental regulations specific to the chemical. The required information includes:

- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).

## Section 16: Other Information

This section provides information on the chemical's other information. The required information includes:

- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Relevant symptoms or conditions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).

## Employer Responsibility:

Employers must ensure that the SDS is readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways, but employers must ensure that the SDS is readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways, but employers must ensure that the SDS is readily accessible to employees for all hazardous chemicals in their workplace.

# Osha Msds Requirements 2013

**M. Rashad Islam**



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