

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 information contained in the SDS is largely the same as the MSDS, except that the SDS is required to be prepared in a standard order hierarchy. The SDS also provides guidance to help workers who handle hazardous chemicals to become familiar with the format and understand the contents of the SDS.

The SDS information should be provided to workers in a language that the physical, mental, and educational health hazards, protective measures, and safety procedures for handling, storing, and transporting the chemical. The information contained in the SDS must be prepared in a language that is understandable to the worker. OSHA requires that SDSs prepared provide specific information as detailed in Appendix D of 29 CFR (29 USC 1201). The SDS prepared may also include additional information as required by state or local laws. 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 worker. Sections 9 through 11 and 13 contain other technical and scientific information such as physical and chemical properties, stability and reactivity information, toxicology, and environmental information. Sections 12 and 14 include 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 find relevant information for any subsequent uses.

The SDS must also contain Sections 12 through 14, to be consistent with the LHA (Labels, Manufacturer System of Classification and Labeling of Chemicals (MSDS), but OSHA will not conduct OSHA inspections of these sections. Sections 12 through 14, a description of all 16 sections of the SDS, along with their contents, is presented in Section 3: Identification.

Section 3: Identification

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

- 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 3: Hazard(s) Identification

This section identifies the hazard(s) of the chemical and appropriate warning labels that must be used with these hazards. The hazard and appropriate warning labels are:

- 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).
- Precautionary statements.
- Description of any hazards not otherwise classified.



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. Required information includes:

- Substances:
 - Chemical name.
 - Chemical and synonyms.
 - Chemical Abstracts Service (CAS) number and other unique identifiers.
 - Impurities and stabilizing additives, which are themselves classified and which are included in the chemical name.
- Mixtures:
 - Some information is required for mixtures:
 - 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 limits.
 - 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.
- Most important symptoms by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Most important symptoms by relevant routes of exposure, and only symptoms that are acute or serious.
- Recommendations for hospital treatment and special treatment required, when appropriate.

Section 5: Fire-Fighting Measures

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

- Recommended fire extinguishers.
- Recommended fire extinguishing equipment, and information about extinguishing equipment that is not appropriate for a particular situation.
- Most important hazards from fire and explosion, including the most serious fire or explosion hazards from the chemical form, 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 and disposal procedures for exposure to people, properties, or the environment. It may also include recommendations (distinguishing between responses for large and small spills) about the right order of priority and sequence of the response. The required information may consist of recommendations for:

- Use of personal precautions (such as removal of ignition sources or providing adequate ventilation) and procedures to be followed by personnel in all situations, and clothing.
- Emergency procedures, including instructions for a spill or leak response.
- Methods used to contain and clean up the spill or leak (e.g., diking and capping, processing).
- Cleaning procedures (e.g., appropriate techniques for decontamination).
- Disposal procedures, cleaning or decontaminating sufficient materials, and/or equipment required for the spill or leak response.

Section 7: Handling and Storage

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

- Conditions for handling the material (e.g., ventilation, handling, and providing adequate personal protective equipment (e.g., wearing clothing, and wearing eye protection).
- Recommendations on the conditions for safe storage, including any incompatibilities.
- Procedures for safe storage (e.g., segregation).

Section 8: Exposure Controls/Personal Protection

This section provides information on the recommended exposure controls and personal protective measures that can be used to reduce exposure to the chemical. The required information consists of:

- Occupational Safety and Health (OSHA) Permissible Exposure Limit (PEL) values.
- Industrial Hygiene (IHL) Threshold Limit Values (TLV) and any other exposure limit used or recommended by the chemical manufacturer, importer, or distributor, including any conditions (e.g., ceiling, short-term, or use only in an enclosed system).
- Methods used for personal protection measures (e.g., wearing clothing or using eye protection).
- Appropriate types of eye, face, skin, or respiratory protection (e.g., use of appropriate types of eye, face, skin, or respiratory protection).
- Any other information that may be necessary to reduce exposure (e.g., use of gloves, use of a respirator).



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.
- Boiling point (atmospheric pressure).
- Melting point (atmospheric pressure).
- Freezing point (atmospheric pressure).
- Evaporation rate.
- Flammability (solid, liquid, gas).
- Flammable (solid, liquid, gas).
- Autoignition temperature.
- Decomposition temperature.
- Stability (reactivity).
- Reactivity (chemical).
- Stability (chemical).
- Stability (physical).
- Stability (biological).
- Stability (environmental).
- Stability (toxicological).
- Stability (ecotoxicological).
- Stability (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 reactivity information. The required information includes:

- Reactivity: Information on the chemical's reactivity with water, air, oxidizers, and other chemicals. This data can be for a class or family of the chemical if such data adequately represent the anticipated hazard of the chemical.
- Chemical stability: Information on the chemical's stability under normal ambient temperature and conditions while in storage and being handled.
- Other reactivity information: Information on the chemical's stability under conditions of use, including any safety issues that may arise when the product change in physical appearance (e.g., color).

Section 11: Toxicological Information

This section describes the toxicological hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other reactivity information. The required information includes:

- Acute toxicity: Information on the chemical's acute toxicity to humans and animals.
- Chronic toxicity: Information on the chemical's chronic toxicity to humans and animals.
- Subacute toxicity: Information on the chemical's subacute toxicity to humans and animals.
- Subchronic toxicity: Information on the chemical's subchronic toxicity to humans and animals.
- Reproductive toxicity: Information on the chemical's reproductive toxicity to humans and animals.
- Developmental toxicity: Information on the chemical's developmental toxicity to humans and animals.
- Immunotoxicity: Information on the chemical's immunotoxicity to humans and animals.
- Neurotoxicity: Information on the chemical's neurotoxicity to humans and animals.
- Genotoxicity: Information on the chemical's genotoxicity to humans and animals.
- Carcinogenicity: Information on the chemical's carcinogenicity to humans and animals.
- Mutagenicity: Information on the chemical's mutagenicity to humans and animals.
- Other: Information on the chemical's other toxicological hazards.

Section 12: Ecological Information

This section describes the ecological hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other reactivity information. The required information includes:

- Acute toxicity: Information on the chemical's acute toxicity to humans and animals.
- Chronic toxicity: Information on the chemical's chronic toxicity to humans and animals.
- Subacute toxicity: Information on the chemical's subacute toxicity to humans and animals.
- Subchronic toxicity: Information on the chemical's subchronic toxicity to humans and animals.
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- Carcinogenicity: Information on the chemical's carcinogenicity to humans and animals.
- Mutagenicity: Information on the chemical's mutagenicity to humans and animals.
- Other: Information on the chemical's other toxicological hazards.

Section 13: Ecological Information

This section describes the ecological hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other reactivity information. The required information includes:

- Acute toxicity: Information on the chemical's acute toxicity to humans and animals.
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- Carcinogenicity: Information on the chemical's carcinogenicity to humans and animals.
- Mutagenicity: Information on the chemical's mutagenicity to humans and animals.
- Other: Information on the chemical's other toxicological hazards.

Section 14: Transport Information

This section provides guidance on the appropriate response to spills, leaks, or releases that may occur and cleaning and disposal procedures for exposure to people, properties, or the environment. It may also include recommendations (distinguishing between responses for large and small spills) about the right order of priority and sequence of the response. The required information may consist of recommendations for:

- Use of personal precautions (such as removal of ignition sources or providing adequate ventilation) and procedures to be followed by personnel in all situations, and clothing.
- Emergency procedures, including instructions for a spill or leak response.
- Methods used to contain and clean up the spill or leak (e.g., diking and capping, processing).
- Cleaning procedures (e.g., appropriate techniques for decontamination).
- Disposal procedures, cleaning or decontaminating sufficient materials, and/or equipment required for the spill or leak response.

Section 15: Disposal Considerations

This section provides information on the recommended disposal procedures, including information on the chemical(s) in the container, and safe handling practices. The required information includes:

- Disposal procedures for the chemical(s) in the container.
- Disposal procedures for the chemical(s) in the environment.
- Disposal procedures for the chemical(s) in the water.
- Disposal procedures for the chemical(s) in the soil.
- Disposal procedures for the chemical(s) in the air.
- Disposal procedures for the chemical(s) in the ground.
- Disposal procedures for the chemical(s) in the ocean.
- Disposal procedures for the chemical(s) in the atmosphere.
- Disposal procedures for the chemical(s) in the biosphere.
- Disposal procedures for the chemical(s) in the lithosphere.
- Disposal procedures for the chemical(s) in the hydrosphere.
- Disposal procedures for the chemical(s) in the geosphere.
- Disposal procedures for the chemical(s) in the cryosphere.
- Disposal procedures for the chemical(s) in the atmosphere.
- Disposal procedures for the chemical(s) in the biosphere.
- Disposal procedures for the chemical(s) in the lithosphere.
- Disposal procedures for the chemical(s) in the hydrosphere.
- Disposal procedures for the chemical(s) in the geosphere.
- Disposal procedures for the chemical(s) in the cryosphere.



Section 16: Regulatory Information

This section identifies the safety, health, and environmental regulations specific to the chemical that the user should be aware of. The required information includes:

- Any federal and/or state regulatory information of the chemical or mixture (including any OSHA, EPA, or other regulatory information).
- Any state and/or local regulatory information of the chemical or mixture (including any OSHA, EPA, or other regulatory information).
- Any international regulatory information of the chemical or mixture (including any OSHA, EPA, or other regulatory information).

Section 17: Other Information

This section provides information on the chemical's other information, including:

- Other information that is not included in the other sections of the SDS.
- Other information that is not included in the other sections of the SDS.
- Other information that is not included in the other sections of the SDS.

Section 18: Employer Responsibility

This section provides information on the employer's responsibility for providing information to employees. The required information includes:

- Information on the employer's responsibility for providing information to employees.
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Léo Pomar



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