

HOW TO READ A SAFETY DATA SHEET

OSHA Brief

The Hazard Communication Standard (HCS) (29 CFR 1910.1201), revised in 2012, requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets (SDSs) (formerly MSDSs or Material Safety Data Sheets) for each hazardous chemical to downstream users to communicate information on these hazards. This brief provides guidance to help workers who handle hazardous chemicals to become familiar with the format and understand the contents of the SDSs.

The SDS includes information such as the properties of each chemical, its physical, health, and environmental health hazards, protective measures, and safety precautions for handling, storage, and transport of the chemical. This information contained in the SDS must be in English (although it may be in other languages as well). In addition, OSHA requires that SDSs prominently provide specific information as detailed in appendix D of 29 CFR 1910.1201. (The SDS program may also include information in other languages.)

Hazard Communication Standard Safety Data Sheet Sections 1 through 8 contain general information about the chemical, identification, hazards, classification, safe handling practices, and emergency-control measures. This information should be helpful to those that need to get the information quickly. Sections 9 through 12 are to contain either technical and scientific information and chemical properties, toxicology and reactivity information, toxicological information, exposure control information, and other information relating the state of practice or best research. The SDS must also state that the applicable information used when the product does not fall within information for any required element.

The SDS must also contain Sections 13 through 15, to be consistent with the 15th Globally Harmonized System of Classification and Labeling of Chemicals (GHS), but OSHA will not enforce the content of these sections because they contain matters handled by other agencies.

Section 1: Identification

THIS SECTION IDENTIFIES THE CHEMICAL, OR THE SDS, AS WELL AS THE RECOMMENDED USES. IT ALSO PROVIDES THE ESSENTIAL CONTACT INFORMATION OF THE SUPPLIER.

- Product identifier used on the label and any other common names or synonyms by which the substance is known.
- Supplier's name, address, telephone number, fax number, e-mail address, and other appropriate party, and emergency phone number.
- Recommended use of the chemical (e.g., a brief description of what it actually does, such as flame retardant), and any restrictions on use (including recommendations given by the supplier).



Section 2: Hazard(s) Identification

THIS SECTION IDENTIFIES THE HAZARDS OF THE CHEMICAL PRESENTED ON THE SDS AND THE APPROPRIATE WARNING INFORMATION ASSOCIATED WITH THOSE HAZARDS.

- The hazard classification of the chemical (e.g., flammable liquid, category 2).
- Signal words.
- Hazard statements.
- Precautionary statements (e.g., diagrams or hazard symbols may be represented as graphical symbols (e.g., hazard pictograms) and/or by a description of the nature of the hazard (e.g., hazard statements).
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Section 3: Ingredient Information

THIS SECTION IDENTIFIES THE INGREDIENTS CONTAINED IN THE PRODUCT, INDICATES ON THE SDS, INCLUDING IMPORTERS AND MANUFACTURERS, AND INCLUDES INFORMATION ON HAZARD, TOXICITY, AND OTHER INFORMATION.

- Substances**
 - Chemical name.
 - Common name and synonyms.
 - Chemical abstracts registry number (CAS number) and other unique identifiers.
 - Impurities and stabilizing additions.
 - Information on the chemical's physical, health, and environmental hazards.
 - Information on the chemical's physical, health, and environmental hazards.
- Quantities**
 - Information on the chemical's physical, health, and environmental hazards.
 - Information on the chemical's physical, health, and environmental hazards.
 - Information on the chemical's physical, health, and environmental hazards.



Section 4: First-Aid Measures

THIS SECTION PROVIDES THE INITIAL CARE THAT SHOULD BE GIVEN BY UNTRAINED RESPONDERS TO AN INDIVIDUAL WHO HAS BEEN EXPOSED TO THE CHEMICAL.

- Emergency first aid instructions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Description of the most important symptoms or effects, and any symptoms that are acute or chronic.
- Reference to immediate medical care and special treatment needed, when necessary.

Section 5: Fire-Fighting Measures

THIS SECTION PROVIDES RECOMMENDATIONS FOR FIGHTING A FIRE CAUSED BY THE CHEMICAL.

- Recommendations of suitable extinguishing equipment, and information about extinguishing agents.
- Advice on specific hazards that develop from the chemical during the fire, such as any hazardous combustion products created when the chemical burns.
- Recommendations on special personal equipment or protective actions for firefighters.

Section 6: Accidental Release Measures

THIS SECTION PROVIDES RECOMMENDATIONS ON THE APPROPRIATE RESPONSE TO SPILLS, LEAKS, OR RELEASES, INCLUDING CONTAINMENT AND CLEANUP PROCEDURES TO PREVENT OR MINIMIZE EXPOSURE TO PEOPLE, ANIMALS, OR THE ENVIRONMENT. IT MAY ALSO INCLUDE RECOMMENDATIONS ON SPECIAL PERSONAL EQUIPMENT OR PROTECTIVE ACTIONS FOR LAW ENFORCEMENT WHERE THE SPILL COULD HAVE A SIGNIFICANT IMPACT ON THE NUCLEAR.

- Use of personal protective equipment (such as removal of ignition sources or providing sufficient ventilation) and protective equipment to prevent the contamination of skin, eyes, and clothing.
- Emergency procedures, including instructions for containment, cleanup, and disposal.
- Methods and materials used for containment (e.g., covering the spill and covering surrounding areas).
- Chemical procedures (e.g., removal of the spill, decontamination, cleaning, or neutralizing, after the spill, materials, and/or equipment required for containment/clean up).

Section 7: Handling and Storage

THIS SECTION PROVIDES GUIDANCE ON THE SAFE HANDLING PRACTICES AND CONDITIONS FOR SAFE STORAGE OF CHEMICALS.

- Precautions for safe handling, including recommendations for handling hazardous chemicals, minimizing the release of the chemical into the environment, and providing advice on general practices or actions (e.g., labeling, marking, and other safety practices).
- Recommendations on the conditions for safe storage, including any incompatibilities.
- Provision advice on specific storage requirements (e.g., ventilation requirements).

Section 8: Exposure Controls/Personal Protection

THIS SECTION INDICATES THE EXPOSURE LIMITS, ENGINEERING CONTROLS, AND PERSONAL PROTECTIVE MEASURES THAT CAN BE USED TO MINIMIZE WORKER EXPOSURE.

- OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and any other exposure limit value recommended by the chemical manufacturers, importer, or employer preparing the safety data sheet, where available.
- Appropriate engineering controls (e.g., use local exhaust ventilation, or enclosure with airflow system).
- Recommendations for personal protective measures to prevent illness or injury from exposure to chemicals, such as personal protective equipment (PPE) (e.g., appropriate types of eye, face, skin, or respiratory protection needed based on hazards and potential exposures).
- Any special requirements for PPE, including cleaning or maintenance (e.g., type of glove material, such as PPE, for certain gloves, and temperature range of the glove material).



Section 9: Physical and Chemical Properties

THIS SECTION IDENTIFIES PHYSICAL AND CHEMICAL PROPERTIES ASSOCIATED WITH THE SUBSTANCE OR MIXTURE.

- Appearance (physical state, color, odor).
- Odor threshold.
- pH.
- Boiling point/boiling range.
- Initial boiling point and boiling range.
- Flash point.
- Flammable range.
- Auto-ignition temperature.
- Decomposition temperature and pressure.
- Stability.
- Aggregates (physical state, color, odor).
- Odor threshold.
- pH.
- Boiling point/boiling range.
- Initial boiling point and boiling range.
- Flash point.
- Flammable range.
- Auto-ignition temperature.
- Decomposition temperature and pressure.
- Stability.

The SDS may not contain any item on the above list because information may not be relevant or not available. When this occurs, a notation to that effect must be made for each chemical property, relevant property, or other information, such as the actual boiling point.



Notes

Notes section for additional information.

Emergency Numbers

Author	Fire Service
Revised	Physician
Date	Responsible Material

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Section 10: Stability and Reactivity

THIS SECTION PROVIDES THE STABILITY AND REACTIVITY INFORMATION OF THE CHEMICAL AND THE CHEMICAL STABILITY INFORMATION.

- Stability**
 - Description of the specific test data for the chemical. This data can be for a class or family of chemicals or for data adequately represent the individual chemical (the chemical), where available.
- Chemical stability**
 - Indication of whether the chemical is stable or unstable under normal ambient temperature and pressure, and under conditions of storage and handling.
 - Description of any substances that may be released or generated during the chemical's stability.
 - Indication of any safety issues that may arise should the product change in physical appearance.

- Other**
 - Indication of the possibility of hazardous reactions, including a statement whether the chemical will react or polymerize, which could release toxic products or heat, or create other hazardous reactions. Also, a description of the conditions under which hazardous reactions may occur.
 - List of all conditions that should be avoided (e.g., heat, flame, sparks, shock, vibration, etc.) and environmental conditions that may lead to hazardous reactions.
 - Indication of any safety issues that may arise should the product change in physical appearance.
 - List of any known or anticipated hazardous decomposition products that could be produced because of instability, including:

Section 11: Toxicological Information

THIS SECTION PROVIDES TOXICOLOGICAL AND HEALTH EFFECTS INFORMATION OR INDICATES THE TOXICITY OF THE CHEMICAL.

- Information on the study routes of exposure (inhalation, ingestion, skin and eye contact).
- The SDS should indicate if the information is qualitative.
- Description of the study route, including the chemical's physical and chemical properties.
- The numerical measure of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose) or the estimated amount of a substance expected to kill 50% of test animals in a single dose).
- Description of the study route, including the chemical's physical and chemical properties.
- Indication of whether the chemical is listed in the National Toxicology Program (NTP) report on Carcinogen Studies (NTP Carcinogen Studies).
- Indication of whether the chemical is listed in the National Toxicology Program (NTP) report on Carcinogen Studies (NTP Carcinogen Studies).

Section 12: Ecological Information

THIS SECTION PROVIDES INFORMATION TO EVALUATE THE ENVIRONMENTAL IMPACT OF THE CHEMICAL IF IT WERE RELEASED TO THE ENVIRONMENT.

- Data from toxicity tests performed on aquatic and/or terrestrial organisms, where available.
- Information on the chemical's physical and chemical properties, including its physical and chemical properties, including its physical and chemical properties.
- Whether there is a potential for the chemical to persist and degrade in the environment.
- Whether there is a potential for the chemical to persist and degrade in the environment.
- Whether there is a potential for the chemical to persist and degrade in the environment.



Section 13: Disposal Considerations

THIS SECTION PROVIDES GUIDANCE ON PROPER DISPOSAL PRACTICES, INCLUDING ON RECOMMENDED DISPOSAL METHODS, DISPOSAL CONDITIONS, AND DISPOSAL TOXICITY TO WORKER EXPOSURE. THIS SECTION SHOULD ALSO REFER THE READER TO SECTION 8 OF THE SDS.

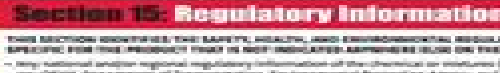
- Description of appropriate disposal methods to use.
- Recommendations of appropriate disposal methods to employ.
- Information on the chemical's physical and chemical properties, including its physical and chemical properties.
- Information on the chemical's physical and chemical properties, including its physical and chemical properties.
- Information on the chemical's physical and chemical properties, including its physical and chemical properties.



Section 14: Transport Information

THIS SECTION PROVIDES GUIDANCE ON CLASSIFICATION INFORMATION ON SHIPPING AND TRANSPORTING OF HAZARDOUS CHEMICALS BY ROAD, AIR, RAIL, OR SEA.

- UN number (e.g., four figure identification number of the substance) and its proper shipping name.
- Transport hazard class(es).
- Transport hazard class(es).
- Transport hazard class(es).



Section 15: Regulatory Information

THIS SECTION IDENTIFIES THE SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT THAT IS NOT REGULATED BY THE U.S. EPCRA.

- Any national regulatory information on the chemical or substance (e.g., any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission regulations).

Section 16: Other Information

THIS SECTION PROVIDES OTHER INFORMATION THAT MAY BE REQUIRED BY THE U.S. EPCRA. THIS SECTION MAY BE USED TO CONTACT THE SUPPLIER FOR AN EXPLANATION OF THE CHANGES.

Employer Responsibilities

Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways. For example, employers may have the SDSs in a binder or on a computer screen. Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways. For example, employers may have the SDSs in a binder or on a computer screen.

Osha Msds Requirements 2013

Robert D. Moran, Mark McGuire Moran

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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