



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 (SDS) (formerly MSDs or Material Safety Data Sheets) for each hazardous chemical to be stored in any workplace. It also requires that the information on the SDS must be made available to employees in the workplace. This fact provides chemical safety workers with a useful reference document to become familiar with the format and content of the SDS.

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

Recent Communications Standard Safety Data Sheet Sections 1 through 9 contain general information about the chemical, identification, hazards, composition, safe handling practices, and emergency control measures. This information should be helpful to those that need to get the information quickly. Sections 9 through 11 and 14 contain other technical and scientific information, such as physical and chemical properties, stability and reactivity information, toxicological information, exposure control information, and other information. Information on the use of personal protective equipment associated with the chemical information is not found when the product is used and this related information is for any required element.

The SDS must also contain Sections 12 through 15, to be consistent with the OSHA Globally Harmonized System of Classification and Labeling of Chemicals (GHS), but OSHA will not enforce the content of these sections because they concern 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, or other responsible party, and emergency phone number.
- Recommended use of the chemical (e.g., a brief description of what it actually does, such as a cleaning agent) 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 HAZARDING INFORMATION ASSOCIATED WITH THOSE HAZARDS.

- The hazard classification of the chemical (e.g., flammable liquid, category 2).
- Hazard pictograms.
- Chemical identifiers.
- Prevention, PPE, engineering, or hazard controls may be represented as graphical symbols (e.g., skull and crossbones and flame) or as a description of the nature of the hazard (e.g., acute toxicity).
- Precautionary statements.
- Environmental hazard classification (classified).
- For a chemical that is highly or extremely flammable, a statement describing how much percentage of the mixture consists of ingredients with inherent acute toxicity (e.g., 10% of the mixture contains 10% of a highly toxic liquid).



Section 3: Ingredient Information

THIS SECTION IDENTIFIES THE INGREDIENTS CONTAINED IN THE PRODUCT INDICATED ON THE SDS, INCLUDING IMPURITIES AND ESTABLISHED ADDITIVES AND INCLUDES INFORMATION ON HAZARD, EXPOSURE, AND ALL CHEMICALS LISTED IN TABLES OF CLASSIFICATION INFORMATION.

- Substances**
- Chemical name.
 - Common name and synonyms.
 - Chemical abstracts number (CAS number) and other unique identifiers.
 - Impurities and stabilizing additives, and their hazard, exposure, and identification information.
- Information**
- The concentration (exact percentage) of each ingredient must be specified except concentration ranges may be used in the following circumstances:
 - A trade secret claim is made.
 - There is a health or safety rationale or other reason.
 - Chemicals where a trade secret is claimed:
 - A statement that the specific chemical identity and/or exact percentage concentration of composition has been withheld as a trade secret is required.
 - Chemical, as defined in the GHS, is any substance, or mixture of substances.
- Warnings**
- Identify information required for substances.
 - The chemical name and concentration (exact percentage) of all ingredients which are classified as health hazards and are present above their own identification level.
 - Provide a health and safety cut off if relevant to the SDS.



Section 4: First-Aid Measures

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

- Necessary 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 delayed.
- 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 methods that are not applicable for a particular chemical.
- Refer to specific hazards that derive from the chemical and the fire, such as any hazardous combustion products created when the chemical burns.
- Recommendations on special protective equipment or procedures for firefighters.

Section 6: Accidental Release Measures

THIS SECTION PROVIDES RECOMMENDATIONS ON THE APPROPRIATE RESPONSE TO SPILLS, LEAKS, OR RELEASES, INCLUDING EQUIPMENT AND CLEANUP PROCEDURES TO PREVENT OR MINIMIZE EXPOSURE TO PEOPLE, ENVIRONMENT, OR THE CHEMICAL. IT WILL ALSO INCLUDE RECOMMENDATIONS ON SPECIAL PROTECTIVE EQUIPMENT OR PROCEDURES FOR FIREFIGHTERS WHEN THE SPILL INVOLVES A SIGNIFICANT IMPACT ON THE NEARBY.

- List of personal protections (such as removal of ignition sources or providing sufficient ventilation) and protective equipment to prevent the contamination of skin, eyes, and clothing.
- Containment procedures, including instructions for containment, containing agents when needed, and appropriate evacuation.
- Methods and materials used for containment (e.g., covering the spill and capping procedures).
- Chemical procedures (e.g., special cleanup techniques for heavy metals, decomposition, cleaning or recycling, other best treatment, and/or equipment required for contamination control).

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 incompatible chemicals, minimizing the release of the chemical into the environment, and providing advice on general protective measures (e.g., eating, drinking, and other activities to prohibit).
- Recommendations on the conditions for safe storage, including any incompatibilities.
- Provide 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 EQUIPMENT 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 used and recommended by the chemical manufacturers, importer, or employer preparing the safety data sheet, where available.
- Engineering and engineering controls (e.g., local exhaust ventilation, or other well-controlled systems).
- Recommendations for personal protective measures to prevent illness or injury from exposure to chemicals, such as eye and face protective equipment (PPE) (e.g., appropriate use of eye, face, skin, or respiratory protection, based on hazards and potential exposure).
- Any special requirements for PPE, protective clothing or equipment (e.g., type of glove material, such as PVC, nitrile, neoprene gloves), such as the type of the glove.



Section 9: Physical and Chemical Properties

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

- Appearance (physical state, color, etc.).
- Odor threshold.
- pH.
- Boiling point/boiling point range.
- Initial boiling point and boiling range.
- Melting point.
- Freezing point.
- Flammability (solid, gas).
- Upper/lower flammability or explosive limits.
- Vapor density.
- Relative density.
- Specific gravity.
- Partition coefficient: n-octanol/water.
- Auto-ignition temperature.
- Decomposition temperature, and
- Stability.

The SDS may not contain every item on the above list. Additional information may only be relevant in some situations. When this occurs, a reference to that effect must be made for each chemical identity and hazard information is provided, such as an OSHA hazard and classification label (H) for the chemical, that, used in conjunction with a user's expertise, is pertinent.



Notes

Emergency Numbers

Author:	Fire Service
Revised:	Physician
Date:	Respiratory Specialist

Section 10: Stability and Reactivity

THIS SECTION DESCRIBES THE STABILITY/HAZARD 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 each data category (including the principal hazard of the chemical), where available.

Chemical stability

- Indication of whether the chemical is stable or unstable under normal ambient temperature and pressure, or under other conditions.
- Description of any conditions that may be needed to maintain chemical 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 information whether the chemical will react or polymerize, self-react, release toxic gases or fumes, or create other hazardous conditions. Also, a description of the conditions in which hazardous reactions may occur (e.g., conditions of temperature, pressure, and other physical, chemical, and environmental conditions that may lead to hazardous reactions).
- Information on the chemical's reactivity with water, air, oxidizing agents, or specific substances with which the chemical could react to produce a hazardous situation.
- List of any known or anticipated hazardous decomposition products that could be produced because of the chemical's reactivity.

Section 11: Toxicological Information

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

- Information on the daily routes of exposure (inhalation, ingestion, skin and eye contact).
- The SDS should indicate if the information is sufficient.
- Information on acute toxicity (short and long term exposure).
- The numerical measure of toxicity (e.g., acute toxicity estimates such as the LD50 (oral) and the description of the amount of a substance expected to kill 50% of test animals in a single dose).
- Information on the chemical's toxicity (acute, subacute, and chronic) and other relevant information to the chemical including symptoms from the tests to the most severe exposure.
- Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (NTP Report on Carcinogens) or in the International Agency for Research on Cancer (IARC) Monographs (IARC Report on Carcinogens).

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 (toxicity data on birds, fish, plants).
- Information on the chemical's acute and chronic toxicity to the environment.
- Whether there is a potential for the chemical to persist and degrade in the environment.
- Information on the chemical's potential, such as adsorption to soil.
- Results of tests of the accumulation potential, making reference to the source water (e.g., surface water, groundwater, or other water bodies).
- The potential for a substance to move from the soil to the groundwater (indicate results from absorption studies or leaching studies).
- Other adverse effects (e.g., reproductive failure, acute hyper-reproduction potential, photochemical smog formation potential, endocrine disrupting potential, and/or global warming potential).



Section 13: Disposal Considerations

THIS SECTION PROVIDES GUIDANCE ON PROPER DISPOSAL PRACTICES, METHODS, AND ON SPECIAL CONSIDERATIONS FOR SPECIAL CONSIDERATIONS, SUCH AS SPECIAL CONSIDERATIONS TO MINIMIZE EXPOSURE. THIS SECTION SHOULD ALSO REFER THE READER TO SECTION 9 OF THE SDS.

- Description of appropriate disposal containers to use.
- Recommendations of appropriate disposal methods for shipping.
- Information on special disposal considerations, such as special disposal methods, and other special considerations.
- Any special instructions for benefits of incineration practices.
- Information on special disposal considerations, such as special disposal methods, and other special considerations.



Section 14: Transport Information

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

- UN number (i.e., four figure identification number of the substance) and its proper shipping name.
- Transport hazard category.
- Transport hazard class, if applicable, based on the degree of hazard.
- Environmental hazard (e.g., identify PPE a shipping placard according to the international Maritime Dangerous Goods Code (IMDG Code).
- Information on the chemical's classification in the international Maritime Dangerous Goods Code (IMDG Code).
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- Information on the chemical's classification in the international Maritime Dangerous Goods Code (IMDG Code).

Section 15: Regulatory Information

THIS SECTION IDENTIFIES THE SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT THAT IS NOT REGULATED OTHERWISE (E.g., OSHA, EPA, etc.).

Information on the chemical's classification in the international Maritime Dangerous Goods Code (IMDG Code).

Information on the chemical's classification in the international Maritime Dangerous Goods Code (IMDG Code).

Section 16: Other Information

THIS SECTION PROVIDES OTHER INFORMATION THAT IS NOT REGULATED OTHERWISE (E.g., OSHA, EPA, etc.).

Information on the chemical's classification in the international Maritime Dangerous Goods Code (IMDG Code).

Employer Responsibilities

Employers must ensure that the SDS are readily accessible to employees for all hazardous chemicals in the workplace. This may be done in many ways. For example, employers may have the SDS in a binder in the workplace, or they may have a computer system that provides access to the SDS in the case of a power outage. Employers must also ensure that the SDS are readily accessible to employees in the workplace, and that the SDS are readily accessible to employees in the workplace.

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Raffaela Di Napoli

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