



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, importer, or supplier provide Safety Data Sheets (SDS) (formerly MSDs or Material Safety Data Sheets) for each hazardous chemical to be stored in any workplace. These sheets provide information on the hazards. They also provide chemical safety information, which can be helpful to workers who are not familiar with that hazard and understand the contents 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 is contained on the SDS in a standard layout (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 Standards 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 is provided. Not all SDSs contain information on all items when the product does not meet the criteria of information for any required element.

The SDS must also contain Sections 12 through 15, to be consistent with the GHS 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, 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 MARKING INFORMATION ASSOCIATED WITH THOSE HAZARDS.

- The hazard classification of the chemical (e.g., flammable liquid, category 2).
- Hazard pictograms.
- Hazard statements.
- Precautionary statements (e.g., programs or hazard symbols may be represented as graphical symbols (e.g., skull and crossbones) and white or red descriptions of the nature of the hazard).
- Precautionary statements.
- Any other safety hazards not otherwise classified.
- For a chemical that is classified as irritant or with unknown toxicity, a statement describing the minimum percentage of the active constituent of ingredients with unknown acute toxicity, and a statement describing the total percentage of the inactive constituents and how to use the material (e.g., irritant).



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 TRADE SECTORS OR CLASS 2.

- 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.
 - Trade name.
 - Precautionary statements.
 - Trade or brand name.
 - Product or health and safety data sheet reference number.
- Chemicals where a trade secret is claimed**
 - A statement that the specific chemical identity and/or exact percentage composition of composition has been withheld as a trade secret is required.
 - Chemical, as defined in the GHS, is any substance, or mixture of substances.



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 equipment that is not appropriate for a particular fire.
- Advice on specific hazards that derive from the chemical and from 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 ALSO ALLOWS INCLUDING RECOMMENDATIONS ON SPECIAL PROTECTIVE EQUIPMENT OR PROCEDURES FOR FIREFIGHTERS WHEN THE SPILL INVOLVES A SIGNIFICANT IMPACT ON THE NEARBY.

- Use of personal protective gear (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 surrounding tanks).
- 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 smoking areas 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 limits used or recommended by the chemical manufacturers, importer, or employer preparing the safety data sheet, where available.
- Any other engineering controls (e.g., use local exhaust ventilation, or use any other technical 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, and/or respiratory protection, needed based on hazards and potential exposure).
- Any special requirements for PPE, protective clothing or equipment (e.g., type of glove material, such as nitrile, nitrile-butadiene gloves, or other 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 provided as it is available. When this occurs, a reference to that effect should be made for each chemical property not included, such as "no data available" or "not applicable" or "not determined" (N/A). For combination fluids, used to evaluate a fluid's reactivity potential.



Notes

Notes section for additional information or specific instructions related to the chemical's use and safety.

Emergency Numbers

Author	File Name
Revised	Printer
Date	Number of Pages

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(s). This data can be for a class or family of chemicals, or for each data category (including the principal hazard of the chemical(s), where available).
- Chemical stability**
 - Indication of whether the chemical is stable or unstable under normal ambient temperature and pressure, and 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 (e.g., pH, temperature, shock, etc.) under which an environmental conditions that may lead to hazardous reactions.
 - Information on the chemical's reactivity with water, including any specific information 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/or contact).
- The SDS should indicate if the information is sufficient.
- Information on acute toxicity (e.g., oral, dermal, and inhalation) and long term exposure.
- The numerical measure of toxicity (e.g., acute toxicity estimates such as the LD50 (inhalation) and the estimated amount of a substance expected to kill 50% of test animals in a single dose).
- Information on the chemical's toxicity (e.g., acute toxicity estimates such as the LD50 (inhalation) and the estimated amount of a substance expected to kill 50% of test animals in a single dose).
- Information on whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (e.g., known or suspected to be a potential carcinogen) or in the International Agency for Research on Cancer (IARC) Monographs (e.g., known or suspected to be a potential carcinogen).

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.
- Information on whether there is a potential for the chemical to persist and degrade in the environment.
- Information on whether there is a potential for the chemical to bioaccumulate in organisms.
- Results of tests of the accumulation potential, making reference to the source water (e.g., surface water, groundwater, or other water source).
- 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 toxic potential, photochemical 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 REQUIREMENTS FOR SPECIAL CONSIDERATIONS FOR CHEMICALS SUBJECT TO SPECIAL EXPOSURE. THIS SECTION SHOULD ALSO REFER THE READER TO SECTION 9 FOR THE SDS.

- Description of appropriate disposal containers to use.
- Recommendations of appropriate disposal methods for recycling.
- Information on special disposal requirements that may affect disposal activities.
- Language that is not applicable.
- Any special instructions for benefits of incineration activities.
- Information on special disposal requirements for chemical waste, including potential photochemical smog formation potential, endocrine disrupting potential, and/or global warming potential.



Section 14: Transport Information

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

- UN number (i.e., four figure identification number of the substance) and its proper shipping name.
- Transport hazard category.
- Flashpoint (where applicable, based on the degree of hazard).
- Environmental hazard (e.g., identify PLS a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code)).
- Information on whether the chemical is in a mixture, UN3082 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)).
- The SDS may also include any information about the use of the chemical or substance (including any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission regulations).

Section 15: Regulatory Information

THIS SECTION IDENTIFIES THE SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT THAT IS NOT REGULATED OTHERWISE (EPCRA OR FIFRA SDS). THIS SECTION SHOULD ALSO REFER THE READER TO THE SUPPLIER FOR AN EXPLANATION OF THIS CHANGE. THIS MAY NOT BE NECESSARY TO CONTACT THE SUPPLIER FOR AN EXPLANATION OF THIS CHANGE.

Section 16: Other Information

THIS SECTION PROVIDES OTHER INFORMATION THAT IS NOT REQUIRED TO BE ON THE SDS. THESE OTHER INFORMATION SHOULD BE INCLUDED IN THE SDS TO PROVIDE ADDITIONAL INFORMATION TO THE USER. THIS SECTION SHOULD ALSO REFER THE READER TO THE SUPPLIER FOR AN EXPLANATION OF THIS CHANGE.

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 on a computer. If an employer has a computer, employers may have the SDS in a binder in the workplace or on a computer. If an employer has a computer, employers may have the SDS in a binder in the workplace or on a computer. If an employer has a computer, employers may have the SDS in a binder in the workplace or on a computer.

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David Baud



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