

HOW TO READ A SAFETY DATA SHEET

OSHA Brief

The Hazard Communication Standard (HCS) (29 CFR 1910.1200), 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 understand a standard chemical to become familiar with that 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 provide specific minimum information as detailed in appendix D of 29 CFR 1910.1200. The SDS program may also include information on other chemicals.

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 including the state of preparation or test results. The SDS must also state that the applicable information was used when the product was last released 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 placed 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., programs or hazard symbols may be represented as graphical symbols (e.g., skull and crossbones) and/or by a description of the nature of the hazard (e.g., "Highly flammable").
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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 number (CAS number) and other unique identifiers.
 - Impurities and stabilizing additions.
 - Information on the chemical's physical and chemical properties.
 - Information on the chemical's physical and chemical properties.
- Quantities**
 - Information on the chemical's physical and chemical properties.
 - Information on the chemical's physical and chemical properties.
 - Information on the chemical's physical and chemical properties.



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 delayed.
- Recommendations for 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.
- 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 equipment required for containment/cleanup).

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 exhaust system).
- Recommendations for personal protective measures to prevent illness or injury from exposure (e.g., use of 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 (atmospheric pressure).
- Initial boiling point and boiling range.
- Flash point.
- Flammable range.
- Auto-ignition temperature.
- Decomposition temperature and pressure.
- Stability.
- Reactivity.
- Viscosity.

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 information must be provided, such as the actual boiling point, when the information is not available.



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 obtained from the product itself (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 conditions. Also, a description of the conditions under which hazardous reactions may occur.
 - List of all conditions that should be avoided (e.g., heat, light, moisture, shock, and other environmental conditions that may lead to hazardous reactions).
 - Information on the chemical's stability under conditions of storage and handling (e.g., specific substances with which the chemical must not be mixed or stored in the same container).
 - 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.
- Information of whether the chemical is listed in the National Toxicology Program (NTP) report on Carcinogen and Non-Carcinogen Studies.
- Information of whether the chemical is listed in the National Toxicology Program (NTP) report on Carcinogen and Non-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 (e.g., acute or chronic toxicity, reproductive effects, and long-term effects).
- Information on the chemical's physical and chemical properties.
- Information on the chemical's physical and chemical properties.
- Information on the chemical's physical and chemical properties.



Section 13: Disposal Considerations

THIS SECTION PROVIDES GUIDANCE ON PROPER DISPOSAL PRACTICES, INCLUDING ON RECYCLING, REUSE, OR OTHER DISPOSAL METHODS. IT SHOULD ALSO REFER 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.
- Information on the chemical's 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.

- Information on the chemical's physical and chemical properties.
- Information on the chemical's physical and chemical properties.
- Information on the chemical's physical and chemical properties.

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.

- Information on the chemical's physical and chemical properties.
- Information on the chemical's physical and chemical properties.

Section 16: Other Information

THIS SECTION PROVIDES OTHER INFORMATION THAT MAY BE REQUIRED BY THE U.S. EPCRA.

- Information on the chemical's physical and chemical properties.
- Information on the chemical's physical and chemical properties.

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. The SDSs must be kept in a secure place, but not in a place that is inaccessible to employees. The SDSs must be kept in a secure place, but not in a place that is inaccessible to employees.

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them on the application of the medicines manufactured The basic and practical knowledge on the design preparation and quality management of medicines can directly be applied by the pharmacists whose main duty is production in community and hospital pharmacies and industries Undergraduate as well as graduate pharmacy students will find knowledge and backgrounds in a fully coherent way and fully supported with examples Code of Federal Regulations, Title 40, Protection of Environment, PT. 300-399, Revised as of July 1, 2017 Office Of The Federal Register (U S,Office of the Federal Register (U S),National Archives and Records Administration (U.S.),National Archives and Records Administration (U S,2017-09-15 40CFR Parts 300 399 continues coverage of Protection of Environment Environmental Protection Agency EPA Superfund Emergency Planning and Community Right To Know Programs Topics treated include National Oil and Hazardous Substances Pollution Contingency Plan citizen awards for information on criminal violations under superfund arbitration procedures for small superfund cost recovery claims claims against the superfund reimbursement to local governments for emergency response to hazardous substance releases and more Related items The Annual CFR Print Subscription can be found here <https://bookstore.gpo.gov/products/code-federal-regulations-subscription-service-2017-paperback-0-cfr-title-40-protection-of-environment-publications> can be found here <https://bookstore.gpo.gov/catalog/cfr-title-40-protection-environment> Environmental Protection Conservation resources collection is available here <https://bookstore.gpo.gov/catalog/environmental-protection-conservation> *OSHA Standards for the Construction Industry As of August 1, 2002* Toolkit Media Group,2002 Provides the texts of OSHA construction industry standards Hazardous Materials Response Handbook Martin F. Henry,1989 *OSHA Made Easy* Robert D. Moran,Mark McGuire Moran,1995 OSHA Made Easy is devoted to OSHA s recordkeeping and reporting requirements for private sector employees which also includes written samples of completed compliance programs This detailed easy to follow compliance guide includes a helpful introduction to OSHA as well as precise guidance on inspections and enforcement citations notices and warnings and consulting services written programs and training and employee qualifications Executive Housekeeping Today ,1999 *Chemical Regulation Reporter* Bureau of National Affairs (Arlington, Va.),1985 **Cumulative Index to Nursing Literature** Cinahl Information Systems Staff,1999 **MSDS Reference for Crop Protection Products** ,2006 **Federal Chemical Regulation** Cynthia A. Lewis,James M. Thunder,1997 Use this reference to fully advise your clients on the generation collection and dissemination of information relating to chemicals and chemical related hazards You get complete discussion of the three major statutes governing chemical products and raw materials with a focus on reporting requirements Business Periodicals Index ,2000

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