

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 understand a hazardous chemical by becoming 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 provide specific minimum information as detailed in appendix D of 29 CFR 1910.1201. The SDS program may also include other information as well.

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 last revision. The SDS must also state that the applicable information was read when the person does not find relevant 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., 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 registry number (CAS number) and other unique identifiers.
 - Impurities and stabilizing additions.
 - Any other information that may be relevant to the hazard or safety of the chemical.
- Quantities**
 - Some information required for substances.
 - The chemical name and concentration (weight percentage) of all ingredients which are classified as health hazards and are present above their toxic concentration limits.
 - Present in a health hazard below the cut-off concentration limits.
- Other information**
 - The concentration (weight percentage) of each ingredient must be specified except concentration ranges may be used in the following cases:
 - A trade secret claim is made.
 - There is a health hazard statement.
 - The SDS is used for a group of substantially similar mixtures.
 - A statement that the specific chemical identity and/or concentration has been withheld as a trade secret is required.
 - A chemical, as defined in the HCS, is any substance, a mixture of substances, or a preparation.



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 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 FOR PERSONAL PROTECTION AND PROCEDURES FOR LEAKS AND SPILLS WHERE THE SPILL COULD HAVE A SIGNIFICANT IMPACT ON THE NEARBY.

- 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, consulting parties when needed, and appropriate protective clothing.
- Methods and materials used for containment (e.g., covering the spillage and capturing materials).
- Chemical procedures (e.g., separation techniques for multi-phases, decontamination, cleaning or separating, after-use 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 replacement (e.g., type of glove material, such as PPE for nitrile 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.
- Melting point.
- Freezing point.
- Flash point.
- Auto-ignition temperature.
- Decomposition temperature and decomposition products.
- Stability.
- Reactivity (e.g., oxidizing, reducing, acidic, basic, etc.).
- 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 property or item on the list that is not relevant or not available.



Notes

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Emergency Numbers

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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 each data individually (the product tested of 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 the 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 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 substances that may be released or the chemical stability.
 - Indication of any safety issues that may arise should the product change in physical appearance.

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 effects from short and long term exposure.
- 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 effects from short and long term exposure to the chemical including symptoms from the point to the most severe exposure.
- Indication of whether the chemical is listed in the National Toxicology Program (NTP) report on Carcinogen Studies (NTP Carcinogen Studies) or the National Toxicology Program (NTP) report on Reproductive Toxicology (NTP Reproductive Toxicology) or the National Toxicology Program (NTP) report on Developmental Toxicology (NTP Developmental Toxicology).

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 (acute or chronic toxicity, LC50, LD50, etc.).
- Information on the chemical's potential to bioaccumulate in organisms.
- Whether there is a potential for the chemical to persist and degrade in the environment (e.g., through biodegradation, photolysis, or hydrolysis).
- Results of tests of bioaccumulation potential, making reference to the potential water solubility of the chemical.
- The potential for a substance to enter food chains in the environment (bioaccumulation results from absorption studies or feeding studies).
- Other adverse effects (e.g., environmental fate, acute toxicity, chronic toxicity, etc.).



Section 13: Disposal Considerations

THIS SECTION PROVIDES GUIDANCE ON PROPER DISPOSAL PRACTICES, INCLUDING ON RECOMMENDED DISPOSAL METHODS, DISPOSAL OF CONTAINERS, AND DISPOSAL OF WASTE.

- Description of appropriate disposal methods to use.
- Recommendations of appropriate disposal methods to employ.
- Information on the chemical's potential to bioaccumulate in organisms.
- Information on the chemical's potential to bioaccumulate in organisms.
- Information on the chemical's potential to bioaccumulate in organisms.



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).
- 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 GHS OR THE SDS.

- 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 USER OR OTHER REGULATORY AGENCIES.

- Any other information that may be relevant to the safety, health, or environment of the chemical or substance.

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 up-to-date and must be available to the employees at all times.

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Material Safety Data Sheets for Multigraphics Chemical Products as Required by OSHA Regulations , 1986 Federal Register , 2002-12 **Occupational Safety and Health Law** Victoria L. Bor, 1997 **Material Safety Data Sheets Service** , 1989 *ChemicalWeek, January 6/13, 1993* , 1993 *Practical Pharmaceutics* Yvonne Bouwman-Boer, V'Iain Fenton-May, Paul Le Brun, 2015-08-24 This book contains essential knowledge on the preparation control logistics dispensing and use of medicines It features chapters written by experienced pharmacists working in hospitals and academia throughout Europe complete with practical examples as well as information on current EU legislation From prescription to production from usage instructions to procurement and the impact of medicines on the environment the book provides step by step coverage that will help a wide range of readers It offers product knowledge for all pharmacists working directly with patients and it will enable them to make the appropriate medicine available to store medicines properly to adapt medicines if necessary and to dispense medicines with the appropriate information to inform patients and caregivers about product care and how to maintain their quality This basic knowledge will also be of help to industrial pharmacists to

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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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