

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 be shipped, stored, or handled by the chemical. 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 provide specific minimum 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 is used when the proper data and that 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., diagrams or hazard symbols may be represented as graphical symbols (e.g., skull and crossbones) and/or as a description of the nature of the hazard (e.g., "Explosive").
- Precautionary statements.
- Precautionary statements (e.g., "Keep away from heat, open flames, and other sources of ignition").
- For a mixture, the SDS must also include a statement describing the most serious hazard (e.g., the mixture contains 10% of a substance with a hazard statement describing the most serious hazard).



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.
 - Any other information that may be relevant to the hazard classification of the chemical.
- Ingredients**
 - 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 a health hazard below the cut-off concentration limits.



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 PUBLIC.

- 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., separation techniques for mixtures, decontamination, cleaning or separating, absorption materials, and other 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.
- 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 MEASURES THAT CAN BE USED TO MINIMIZE 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 nitrile, 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 point) and boiling range.
- Melting point.
- Freezing point.
- Flash point.
- Auto-ignition temperature.
- Decomposition temperature and decomposition products.
- Stability.
- Reactivity (e.g., reactivity with water, acids, bases, oxidizers, reducers, etc.).
- Reactivity (e.g., reactivity with water, acids, bases, oxidizers, reducers, etc.).
- Reactivity (e.g., reactivity with water, acids, bases, oxidizers, reducers, etc.).

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

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 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 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 safety issues that may arise should the product change in physical appearance, 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 instability or reacting.

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 lowest to the most severe exposure.
- Indication of whether the chemical is listed in the National Toxicology Program (NTP) report on Carcinogenicity of Chemicals in Food and Consumer Products (NTP Carcinogenicity Report).
- Information on Agency for Research on Cancer (IARC) monographs (latest volume) or found to be carcinogenic according to IARC.

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, reproductive toxicity, and other effects).
- Whether there is a potential for the chemical to persist and degrade in the environment (e.g., through biodegradation, photolysis, or other processes).
- Results of tests of the chemical's potential, making reference to the potential water solubility, volatility, and other properties.
- The potential for a substance to enter from the soil to the groundwater (indicate results from absorption studies or leaching studies).
- Other adverse effects (e.g., environmental fate, acute toxic effects, potential, photochemical smog formation potential, mutagenic/disrupting potential, and/or global warming potential).



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 disposal methods that may affect disposal activities.
- Language describing disposal methods.
- Any special instructions for disposal or incineration activities.
- Information on disposal methods that may affect disposal activities.
- Information on disposal methods that may affect disposal activities.



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).
- Environmental hazard (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code)).
- Information on disposal methods that may affect disposal activities.
- Information on disposal methods that may affect disposal activities.

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.

- 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).
- 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).
- 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).
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AR 700-141 08/13/2007 HAZARDOUS MATERIALS INFORMATION RESOURCE SYSTEM , Survival Ebooks Us Department Of Defense, www.survivalebooks.com, Department of Defense, Delene Kvasnicka, United States Government US Army, United States Army, Department of the Army, U. S. Army, Army, DOD, The United States Army, AR 700 141 08 13 2007 HAZARDOUS MATERIALS INFORMATION RESOURCE SYSTEM Survival Ebooks "Code of Massachusetts regulations, 2013" , 2013 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **How to Comply with the OSHA Hazard Communication Standard** Daniel J. Young, 1989 With the standard extended to all places that make store use or process any amount of hazardous material some 4 5 million workplaces must comply This guide explains the requirements and offers step by step procedures for meeting them Annotation copyrighted by Book News Inc Portland OR Textbook for the Veterinary Assistant Kara M. Burns, Lori Renda-Francis, 2014-04-17 Textbook for the Veterinary Assistant offers a comprehensive guide to the NAVTA approved curriculum for veterinary assisting programs Written by leaders in the profession and copublished with NAVTA the book covers the complete list of NAVTA Veterinary Assistant Essential Skills Specifically tailored for veterinary assistants and veterinary assistant students the book uses an engaging writing style to provide a concise user friendly approach to the material With chapters on medical terminology clinical skills office procedures client communication and more the book equips veterinary assistants with all the information they need to succeed A companion website offers interactive multiple choice questions the figures from the book in PowerPoint teaching activities breed study guides and a sample cover letter Textbook for the Veterinary Assistant is a must have resource for all veterinary assistant students and those studying for the Approved Veterinary Assistant certification exam and serves as a useful refresher for veterinary assistants in practice *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 remind and focus

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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