



# HOW TO READ A SAFETY DATA SHEET

## OSHA Brief

The most recent version of the Standardized Product Safety Information (SDI) document, Revision 2020, replaces the chemical hazard information, distribution, and exposure control information in the Safety Data Sheet (SDS) required by the Occupational Safety and Health Administration (OSHA) under the Hazard Communication Standard (HCS). The revised version is designed to better reflect how hazard information is communicated to workers and consumers, and to harmonize the requirements with other international documents, such as the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

The SDS includes information such as the properties of each hazard (e.g., physical, health, and environmental), health hazards, protective measures, and safety precautions for handling, storage, and disposal of the chemical. This information is intended to be used in the workplace, but it can also be used by consumers to make informed decisions about the products they purchase.

Revised hazard communication hazard codes (Section 2) through 10 of the document align with the GHS hazard classification and labelling system. The hazard codes are helpful to those that must use the SDS to determine the appropriate hazard information to include in their hazard communication, such as physical and chemical hazard information, including information on health, environmental, toxicological information, dangerous for the environment, and other information including the class of information on test results. The SDS also allows for any applicable hazard codes to be present, even when the product does not meet relevant requirements for any required hazard.

The SDS must also contain Sections 1 through 10, as the component must be included in the SDS to provide the essential hazard information of the supplier.

## Section 1: Identification

THIS SECTION IDENTIFIES THE CHEMICAL, OR THE SDS AS WELL AS THE RECOMMENDED USE, IF ALSO PROVIDED THE ESSENTIAL CONTACT INFORMATION OF THE SUPPLIER.

- Product identifier (e.g., on the label and any other common names or synonyms by which the product is known).
- Name, address, phone number of the manufacturer, importer, or other responsible party, and emergency phone number.
- Exact name and use of the chemical (e.g., a brief description of what it is actually doing, health and safety information, and any restrictions on use (including relevant regulations) given by the supplier).



## Section 2: Hazard(s) Identification

THIS SECTION IDENTIFIES THE HAZARDS OF THE CHEMICAL, PRESENTED ONE AT A TIME, IN ACCORDANCE WITH THE HARMONIZED CLASSIFICATION AND LABELLING REQUIREMENTS.

- The hazard classification of the chemical (e.g., Corrosive liquid, category 1).
- Segment identifier.
- Photographs (i.e., photographs or hazard symbols) may be presented as graphical representations of the hazards in black and white or a description of the name of the hazard (e.g., Flammable, Corrosive).
- Description of any hazards not otherwise classified.
- Information on how many ingredients are present in the mixture and their total for the individual ingredients.



## Section 3: Ingredient Information

THIS SECTION IDENTIFIES THE INGREDIENTS, IDENTIFIED BY THEIR PRODUCT IDENTIFIERS, OR THEIR COMMON NAMES, AND THE CONCENTRATIONS AND INCLUSES/INFORMATION FOR SUBSTITUTES, INHIBITORS, AND ALL OTHER INFORMATION NEEDED IN TRADE SECRET OR CONFIDENTIAL.

- Chemical names.
- Common names and synonyms.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Information on the uses and restrictions, which are the intended uses and the uses which contribute to the classification of the chemical.

- Chemicals where a health hazard is claimed.
- A statement that the health hazard identified under health hazard is present in the chemical and the concentration or level of all ingredients which contribute to the classification of the chemical.
- Information about their uses and restrictions.
- Information on the uses and restrictions of the chemical.



## Section 4: First-Aid Measures

THIS SECTION DESCRIBES THE FIRST-AID CARE THAT SHOULD BE PROVIDED BY RESPONDERS TO AN INDIVIDUAL WHO HAS BEEN EXPOSED TO THIS 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 serious or delayed.
- Instructions for immediate medical care and special treatment needed, when necessary.

## Section 5: Fire-Fighting Measures

THIS SECTION PROVIDES INFORMATION FOR FIGHTING A FIRE CAUSED BY THIS CHEMICAL.

- General information of the hazard(s) to health (e.g., irritant, sensitiser).
- Advice on protective equipment to be used, and information about extinguishing media.
- Advice on specific hazards that deserve the attention of the firefighter, such as any explosive, flammable, products created when the chemical burns.
- Advice on extinguishing methods and special equipment or protection for firefighters.

## Section 6: Accidental Release Measures

THIS SECTION PROVIDES INFORMATION ON THE APPROPRIATE RESPONSE TO SPILLS, LEAKS, OR DISCHARGES OF THIS CHEMICAL, INCLUDING THE PREVENTION OF SPILLS, LEAKS, OR DISCHARGES, AND THE MEASURES TO BE TAKEN IN THE EVENT OF SPILLS, LEAKS, OR DISCHARGES.

- Use of personal protection (such as removal of protective clothing or providing sufficient ventilation) and protection against the penetration of liquid, eyes, and skin contact.
- Emergency procedures, including instructions for evacuation, emergency shutdowns, and other specific procedures.
- Methods for cleaning up (e.g., absorbing the chemical and leaving procedures).
- Chemical countermeasures (e.g., appropriate techniques for neutralization, decontamination, cleaning, or recovering) of equipment, materials, and/or equipment required for countermeasures.

## Section 7: Handling and Storage

THIS SECTION PROVIDES INFORMATION ON THE SAFE HANDLING PRACTICES AND CONDITIONS FOR THIS EXPOSURE OF THIS CHEMICAL.

- Precautions for safe handling, including recommendations for handling, incompatible materials, protection of the user, and general protective measures (e.g., cooling, venting, and isolating any areas of potential hazard).
- Recommendations on the conditions for safe storage, including any incompatibilities.

## Section 8: Exposure Controls/Personal Protection

THIS SECTION INDICATES THE EXPOSURE LIMITS, ENGINEERING CONTROLS, AND PERSONAL PROTECTIVE MEASURES THAT ARE USED TO MINIMIZE WORKER EXPOSURE.

- Occupational Exposure Limits (e.g., American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values (TLVs), and any other exposure limit used) recommended by the chemical manufacturer, importer, or distributor preparing the safety data sheet, where available.
- Engineering controls.
- Personal protective equipment (e.g., respirators) to prevent damage to or injury from exposure to this chemical, such as local exhaust ventilation, or work wear.
- Any special measures (e.g., PPE, protection clothing, or respirators) that types of glove materials, such as PVC, or nitrile rubber gloves, and the length of time the gloves must be worn.



## Section 9: Physical and Chemical Properties

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

- Appearance (physical state, color, etc.).
- Odor.
- Odor threshold.
- pH.
- Melting point and boiling point.
- Flash point, and auto/ignition point.
- Flammability limits.
- Auto/ignition temperature.
- Decomposition temperature, and
- Viscosity.

This SDS may not contain every item on the above list. If no specific information exists for the relevant item or material, an indication of other effects should be made for that chemical (e.g., bioactivity, mutagenicity, etc.) and the reason for the lack of information should be stated.



## Section 10: Stability and Reactivity

THIS SECTION DESCRIBES THE REACTIVITY/STABILITY OF THIS CHEMICAL AND THE CHEMICAL INCOMPATIBILITY INFORMATION.

- Stability.
- Description of the specific test data for the chemical (i.e., this data can be used to identify the chemical if it is not clearly represented by the hazard codes).
- Indication of any hazard(s) that may occur in storage and handling.
- Indication of any safety issues that may arise when the product changes or physical properties change.
- Other.
- Indication of the possibility of hazardous reactions, including an statement whether the chemical will react with water, which may release dangerous or toxic fumes or gases, or cause other hazardous reactions.
- List of all conditions that should be avoided (e.g., heat, strong acids, strong bases, etc.).
- List of all conditions that may be required to have safe storage.
- List of all conditions of transportation that are specific to the product.
- List of any known or anticipated hazard due to decomposition products that could be produced because of use, storage, or heating.

## Section 11: Toxicological Information

THIS SECTION CONTAINS INFORMATION ON HAZARD AND EFFECTS INFORMATION ON INDIVIDUALS WHICH CHEMICALS MAY AFFECT.

- Information on the likely route(s) of exposure (e.g., inhalation, ingestion, skin and eye contact).
- Any data on the delayed, secondary, or chronic effects, and any data on the effects of repeated or prolonged exposure to a mixture which is not clearly represented by the hazard codes.
- Description of the symptoms. This description includes the symptoms associated with exposure to the chemical.
- Information on whether the chemical is a carcinogen based on the International Agency for Research on Cancer (IARC) monographs, National Toxicology Program (NTP) monographs, or other relevant information found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) monographs, National Toxicology Program (NTP) monographs, or other relevant information.

## Section 12: Ecological Information

THIS SECTION PROVIDES INFORMATION TO DETERMINE THE ENVIRONMENTAL IMPACT OF THIS CHEMICAL IF IT IS RELEASED TO THE ENVIRONMENT.

- Data on the potential to cause environmental pollution (e.g., water, soil, air, plants, animals, and other plants).
- Information on the potential to be persistent, bioaccumulative, and/or toxic (PBT).
- Information on the potential to be very persistent and very bioaccumulative (vPvB).
- Results of tests of bioconcentration potential, making reference to the relevant water, sediment, or soil guidelines (e.g., IUPAC, OECD, and/or EPA).
- Other potential for adverse effects (e.g., environmental fate, bioconcentration potential, bioaccumulation potential, and/or global warming potential).



## Section 13: Disposal Considerations

THIS SECTION INDICATES APPROPRIATE DISPOSAL PRACTICES, INCLUDING THE DISPOSITION OF THIS CHEMICALS OR BY-PRODUCTS, AND THE DISPOSAL OF REACTANTS, RESIDUES, AND WASTES.

- Description of appropriate disposal practices.
- Information on the disposal of surplus, unused, or excess material.
- Information on the disposal of mixtures of this chemical with other chemicals.
- Long-term storage of waste products.
- Other special precautions for handling or disposal.
- Other adverse effects (e.g., environmental fate, bioconcentration potential, bioaccumulation potential, and/or global warming potential).



## Section 14: Transport Information

THIS SECTION PROVIDES INFORMATION ON CLASSIFICATION, LABELING, AND PACKAGING FOR TRANSPORTATION OF THIS CHEMICAL BY ROAD, AIR, SEA, OR RAIL.

- UN number (e.g., UN 3077).
- UN hazard class (e.g., hazard class of the substance and/or mixture).
- Packing group number (e.g., packing group used for the dangerous goods).
- Classification (e.g., hazard class, hazard category, etc.).
- Transport Danger Class (e.g., hazard class of the substance and/or mixture).
- Transport Name (e.g., name of the substance and/or mixture).
- Code for the Consignment and Transport of Dangerous Chemicals in Bulk (International Maritime Dangerous Goods (IMDG) Code).
- Information on the dangerous goods (e.g., hazard class, hazard category, etc.) and the source of information (e.g., UN, IATA, ICAO, IMO, etc.).
- Information on the emergency response (e.g., first aid, etc.) and other information (e.g., hazard codes).

## Section 15: Regulatory Information

THIS SECTION DESCRIBES THE SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS THAT APPLY TO THIS PRODUCT, AS WELL AS THE REQUIREMENTS FOR THE USE OF THIS CHEMICAL.

- Any relevant regulation (e.g., classification, environmental protection, and/or product safety communication regulations).

## Section 16: Other Information

THIS SECTION PROVIDES ADDITIONAL INFORMATION FOR THE USE AND SAFETY OF THIS CHEMICAL, WHICH MAY NOT BE INCLUDED IN THE PREVIOUS SECTION.

## Employer Responsibilities

Employers must ensure that the OSHA hazard communication standard (29 CFR 1910.1200) is followed for all products. Employers may refer to the SDS to determine the hazard information for each product. If an employee is exposed to a hazard in the workplace, the employer must provide information to the employee about the hazard and the steps to protect the employee. If an employee is exposed to a hazard in the workplace, the employer must provide information to the employee about the hazard and the steps to protect the employee.

# Osha Msds Requirements 2013

**Bureau of National Affairs (Arlington,  
Va.)**

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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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## **Table of Contents Osha Msds Requirements 2013**

1. Understanding the eBook Osha Msds Requirements 2013
  - The Rise of Digital Reading Osha Msds Requirements 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Osha Msds Requirements 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Osha Msds Requirements 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Osha Msds Requirements 2013
  - Personalized Recommendations
  - Osha Msds Requirements 2013 User Reviews and Ratings
  - Osha Msds Requirements 2013 and Bestseller Lists
5. Accessing Osha Msds Requirements 2013 Free and Paid eBooks
  - Osha Msds Requirements 2013 Public Domain eBooks
  - Osha Msds Requirements 2013 eBook Subscription Services
  - Osha Msds Requirements 2013 Budget-Friendly Options

6. Navigating Osha Msds Requirements 2013 eBook Formats
  - ePUB, PDF, MOBI, and More
  - Osha Msds Requirements 2013 Compatibility with Devices
  - Osha Msds Requirements 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Osha Msds Requirements 2013
  - Highlighting and Note-Taking Osha Msds Requirements 2013
  - Interactive Elements Osha Msds Requirements 2013
8. Staying Engaged with Osha Msds Requirements 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Osha Msds Requirements 2013
9. Balancing eBooks and Physical Books Osha Msds Requirements 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Osha Msds Requirements 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Osha Msds Requirements 2013
  - Setting Reading Goals Osha Msds Requirements 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Osha Msds Requirements 2013
  - Fact-Checking eBook Content of Osha Msds Requirements 2013
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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