



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) for the workplace. The revised SDSs are designed to better reflect hazard information, health hazards, and control measures associated with the health and environmental conditions of the SDSs.

The SDSs include information such as the properties of each individual chemical, 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 to help workers understand the risks associated with the chemical and how to prevent health and environmental problems.

Revised SDSs include hazard statements (Hazards), which are brief descriptions of the potential health and environmental hazards of the chemical. These statements are intended to help workers understand the risks associated with the chemical and how to prevent health and environmental problems. The SDSs also include hazard classification information for each hazard statement.

The SDSs also include sections 3 through 10, which are the components that the SDSs must contain. These sections provide information on the chemical, hazard classification, hazard communication, and exposure control measures for the chemical. The SDSs will not contain the content of these sections because they are now included in other documents.

Section 1: Identification

THIS SECTION IDENTIFIES THE CHEMICAL, OR THE SDS, AS WELL AS THE RECOMMENDED USE, IF ANY, PROVIDED BY THE SUPPLIER.

- Product identifier (such as the label and any other common names or synonyms) by vehicle.
- Other names, numbers, phone numbers of the manufacturer, importer, or other responsible party, and emergency phone numbers.
- Exact name and use of the chemical (e.g., a brief description of what it actually does, health and safety information, and any restrictions on use) (including relevant information given by other sections).



Section 2: Hazard(s) Identification

THIS SECTION IDENTIFIES THE HAZARDS OF THE CHEMICAL, PRESENTED ONE AT A TIME, IN ACCORDANCE WITH THE HAZARD CLASSIFICATIONS USED IN THE SDS.

- The hazard classification of the chemical (e.g., Corrosive liquid, category 1).
- Segment identifiers.
- Photographs (the photographs or hazard symbols) may be presented as graphical representations of the hazards in black and white or as 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, a statement describing the proportion of each ingredient, and information on ingredients with a concentration of 1% or more that are not present in a total percentage of the mixture and not listed in the individual ingredients.



Section 3: Ingredient Information

THIS SECTION IDENTIFIES THE INGREDIENTS, IDENTIFIED BY THEIR PRODUCT IDENTIFIERS, OR THEIR NAMES, AND THE QUANTITIES PRESENT IN THE PRODUCT.

- Chemical names.
- Chemical and common names.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Information on the hazard classification and hazard communication information for each ingredient.
- The concentration (percent, weight percent) of each ingredient that is present in the mixture.
- A brief description of each ingredient.
- The GHS hazard classification for each ingredient.

- Chemicals where a hazard category is absent.
- A statement that the hazard categories identified on the hazard communication label are not present on all ingredients which are classified as health hazards, and where these ingredients have their own hazard communication label.
- Percent of each ingredient (CAS and common names).



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 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 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 THE CHEMICAL.

- General information of the chemical (e.g., physical and chemical properties, and information about existing hazards).
- Advice on what to do in case of a dangerous fire (e.g., fire extinguishers).
- Advice on specific hazards that should be observed when fighting the fire, such as any explosive, flammable, products created when the chemical burns.
- Advice on extinguishing methods, protective equipment or precautions for firefighters.

Section 6: Accidental Release Measures

THIS SECTION PROVIDES INFORMATION ON THE APPROPRIATE RESPONSE TO SPILLS, LEAKS, OR DISCHARGES OF THE 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 measures (to prevent the contamination of skin, eyes, and clothing).
- Emergency procedures, including instructions for evacuation, consulting with relevant medical, health and safety professionals.
- Methods for cleaning up.
- Chemical countermeasures (e.g., appropriate techniques for neutralization, decontamination, cleaning, or recovering) (including necessary equipment required for countermeasures).

Section 7: Handling and Storage

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

- Precautions for safe handling, including recommendations for handling, incompatible materials, protection of the user, and protection of the environment, and general spill prevention (e.g., cleaning, training, and handling of waste products).
- 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) as recommended by the chemical manufacturer, importer, or distributor preparing the safety data sheet, where available.
- Engineering controls.
- Recommendations for personal protective measures to prevent illness or injury from exposure to the chemical, such as local exhaust ventilation, or respiratory devices.
- Any special measures for PPE, protection clothing, or respiratory (e.g., types of glove materials, such as PVC, or winter mittens), and how to use the gloves correctly.



Section 9: Physical and Chemical Properties

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

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

The 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., mutagenicity, teratogenicity, or any other health hazard). See the section on Disagreements (See) for more information about how to handle disagreements.



Section 10: Stability and Reactivity

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

- Stability.
- Description of the specific test data for the chemical (e.g., this data can be a reference for stability of the chemical if such data subsequently supports the anticipated hazard of the chemical, where possible).
- Chemical stability.
- Indication of whether the chemical is stable or unstable (e.g., complete chemical decomposition).
- Indication of any chemical reaction that may occur in storage and handling (e.g., thermal).
- Indication of any safety hazards 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 acids, bases, water, heat, or other chemicals.
- List of all conditions that should be avoided (e.g., heat, change, shock, vibration, etc.).
- List of all conditions that may be required to stabilize the chemical.
- List of any chemical or physical reaction that may occur when the product changes or physical properties change.
- List of any known or anticipated hazard due to chemical products that could be produced because of use, storage, or handling.

Section 11: Toxicological Information

THIS SECTION DESCRIBES TOXICOLOGICAL AND HEALTH EFFECTS INFORMATION ON SUBSTANCES WHICH OCCUR IN THE SDS.

- Information on the likely effects (e.g., irritation, sensitization, and eye and skin contact).
- Information on the delayed effects, or chronic effects, or other long-term effects on health, or any other health effects (e.g., carcinogenicity, reproductive effects, or effects on the environment) which may occur as a result of exposure to the chemical.
- Description of the symptoms. This description includes the symptoms associated with exposure to the chemical.
- Information on whether the chemical is a known or potential carcinogen (see the Programmatic Assessment of Carcinogenicity to Humans for more details to be a potential carcinogen in the International Agency for Research on Cancer (IARC) monographs, based on evidence presented in a peer-reviewed carcinogen assessment).

Section 12: Ecological Information

THIS SECTION PROVIDES INFORMATION ON THE ENVIRONMENTAL IMPACT OF THE CHEMICAL(S) AT THE RELEASE/RELEASED TO THE ENVIRONMENT.

- Data on toxicity to aquatic life (e.g., acute toxicity data for fish, algae, invertebrates, and other plants).
- Data on long-term effects on aquatic life.
- Information on the potential for the chemical to persist and bioaccumulate in the environment, either through biodegradation or other processes, such as sediment or hydrolysis.
- Results of tests of bioconcentration potential, making reference to the potential hazard.
- Information on the potential for the chemical to cause adverse effects to the environment (see the Programmatic Assessment of Environmental Effects for more details to be a potential environmental hazard).
- Other adverse effects (e.g., environmental fate, release, bioaccumulation potential, persistence, bioconcentration potential, bioaccumulation potential, and/or global warming potential).



Section 13: Disposal Considerations

THIS SECTION INDICATES APPROPRIATE DISPOSAL PRACTICES, INCLUDING THE DISPOSAL OF THE CHEMICAL(S) OR BY-PRODUCTS, AND THE DISPOSAL OF REACTANTS, RESIDUES, AND WASTE.

- Description of appropriate disposal practices.
- Information on the disposal of surplus chemical products.
- Information on the disposal of containers.
- Long-term storage of empty containers.
- Other special precautions for disposal or treatment (e.g., environmental protection measures).
- Other adverse effects (e.g., environmental fate, release, bioaccumulation potential, persistence, bioconcentration potential, and/or global warming potential).



Section 14: Transport Information

THIS SECTION PROVIDES INFORMATION ON CLASSIFICATION DATA FOR SHIPMENT AND TRANSPORTATION OF THE CHEMICAL(S) AS A HAZARDOUS CHEMICAL.

- UN number (e.g., UN 3077).
- UN hazard class (e.g., hazard class for the substance) and UN proper shipping name.
- Packing group number (if applicable, based on the degree of hazard).
- Environmental hazards (e.g., hazard class for the substance) according to the International Maritime Organization (IMO) Dangerous Goods Regulations.
- Transport dangerous goods code (e.g., hazard class for the substance) according to the International Maritime Organization (IMO) Dangerous Goods Regulations.
- Code for the Consignment and Transport of Dangerous Chemicals in Bulk (International Maritime Dangerous Goods Code).
- Information on the hazard classification of the chemical (e.g., hazard class for the substance) and the source of information (e.g., hazard classification and labeling, hazard communication, and/or hazard statement).
- Information on the hazard classification of the chemical (e.g., hazard class for the substance) and the source of information (e.g., hazard classification and labeling, hazard communication, and/or hazard statement).

Section 15: Regulatory Information

THIS SECTION DESCRIBES THE SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS THAT APPLY TO THE CHEMICAL(S) IN THE SDS.

- Any relevant regulation, regulation, or standard (e.g., OSHA, Environmental Protection Agency (EPA), and Consumer Product Safety Commission regulations).

Section 16: Other Information

THIS SECTION PROVIDES ADDITIONAL INFORMATION THAT IS NOT INCLUDED IN THE SDS.

- Information on how to contact the supplier for additional information on the substance.

Employer Responsibilities

Employers must ensure that the OSHA hazard communication standard (29 CFR 1910.1200) is followed for all chemicals in the workplace. For example, employers may refer to the SDSs to determine what protective measures are necessary to protect workers from exposure to the chemical. If an employee is exposed to a chemical in the workplace, the employer must provide information on the substance to the employee, including the name of the chemical, the effects of exposure, and the steps to take to protect the employee from exposure.

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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 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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