# 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. "Section" provides guidance to help readers (whether in workplaces chemicals to become familiar with the format and understand the contents of the SDS.

The SDS includes information such as the properties of each chemical, the physical, health, and environmental health hazards, protective measures, and safety precautions for handling, storing, and transporting the chemical. The information contained in the SDS must be in English (although it may be in other languages as well). In addition, OSHA requires that SDS contain at minimum, specific minimum information as detailed in Appendix D of 29 CFR 1910.1200. The SDS preparer may also include additional information in various sections.

Hazard Communication Standard Safety Data Sheets Sections 1 through 8 contain general information, other than specific chemical identities, about safety, health, and environmental practices, and emergency control measures. This information should be helpful to those that need to get the information quickly. Sections 9 through 11 and 16 contain other technical and scientific information, such as physical and chemical properties, stability and reactivity information, toxicological information, exposure control information, and other information including the date of preparation or last revision. The SDS must also state that no application information was found when the preparer does not find relevant information for any required element.

The SDS must also contain Sections 12 through 15, to be consistent with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS), but OSHA will not enforce the content of these sections because they concern matters handled by other agencies.

## Section 1: Identification

THIS SECTION IDENTIFIES THE CHEMICAL ON 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).
- Name, address, phone number of the manufacturer, importer, or other responsible 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).

CHEMICAL NAME

CONTACT NAME

MANUFACTURER

FIRE HAZARD

HEALTH HAZARD

REACTIVITY HAZARD

SPECIFIC HAZARD

## 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 1).
- Signal words.
- Hazard statement(s).
- Pictograms (the pictograms or hazard symbols may be presented as graphical representations of the symbols in GHS and will be in lieu of a description of the name of the symbol (e.g., skull and crossbones, flame).
- Precautionary statement(s).
- Description of any hazards not otherwise classified.
- For a mixture that contains ingredients with unknown toxicity, a statement describing how much (percentage) of the mixture consists of ingredient(s) with unknown acute toxicity. Please note that this is a total percentage of the mixture and not two's the individual ingredient(s).

## Section 3: Ingredient Information

THIS SECTION IDENTIFIES THE INGREDIENT(S) CONTAINED IN THE PRODUCT INDICATES ON THE SDS, INCLUDING IMPURITIES AND STABILIZING ADDITIVES, AND INCLUDES INFORMATION ON SUBSTANCES, MIXTURES, AND ALL CHEMICALS WHERE A TRADE SECRET IS CLAIMED.

Substances:
- Chemical name.
- Common name and synonyms.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Impurities and stabilizing additives, which are themselves classified and which contribute to the classification of the chemical.

Mixtures:
- Same information required for substances.
- The chemical name and concentration (exact percentage) of all ingredients which are classified as health hazards and are present above their cut-off/concentration limits, or
- Present a health risk below the cut-off/concentration limits.
- The concentration (exact percentage) of each ingredient should be specified except concentration ranges may be used in the following situations:
- A trade secret claim is made,
- There is batch-to-batch variation, or
- The SDS is used for a group of substantially similar mixtures.

Chemicals where a trade secret is claimed:
- A statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required. A Chemical, as defined in the HCS, is any substance, or mixture of substances.

## Section 4: First-Aid Measures

THIS SECTION DESCRIBES THE INITIAL CARE THAT SHOULD BE GIVEN BY UNTRAINED 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 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 equipment that is not appropriate for a particular situation.
- 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 protective equipment or precautions for firefighters.

## Section 6: Accidental Release Measures

THIS SECTION PROVIDES RECOMMENDATIONS ON THE APPROPRIATE RESPONSE TO SPILLS, LEAKS, OR RELEASES, INCLUDING RECOMMENDATIONS ON CLEANUP PRACTICES TO PREVENT OR MINIMIZE EXPOSURE TO PEOPLE, PROPERTY, OR THE ENVIRONMENT. IT MAY ALSO INCLUDE RECOMMENDATIONS DISTINGUISHING BETWEEN RESPONSES FOR LARGE AND SMALL SPILLS WHERE THE SPILL INVOLVES A SIGNIFICANT IMPACT ON THE HAZARD.

- Use of personal precautions (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 evacuating nearby when needed, and appropriate protective clothing.
- Methods and materials used for containment (e.g. covering the drains and capping procedures).
- Cleanup procedures (e.g. appropriate techniques for neutralization, decontamination, cleaning or vacuuming, absorbing 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 incompatible chemicals, minimizing the release of the chemical into the environment, and providing advice on general hygiene practices (e.g. eating, drinking, and smoking in work areas is prohibited).
- 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 WORKER EXPOSURE.

- OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.
- Appropriate engineering controls (e.g. use local exhaust ventilation, or use only in an enclosed 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 exposure).
- Any special requirements for PPE, protective clothing or respirators (e.g. type of glove material, such as PVC or nitrile rubber gloves, and breakthrough time 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, etc.)
- Odor
- Odor threshold
- pH
- Melting point/freezing point
- Initial boiling point and boiling range
- Flash point
- Evaporation rate
- Flammability (solid, gas)
- Upper/lower flammability or explosive limits
- Vapor pressure
- Vapor density
- Relative density
- Solubility(ies)
- Partition coefficient: n-octanol/water
- Auto-ignition temperature
- Decomposition temperature, and
- Viscosity

The SDS may not contain every item on the above list because information may not be relevant or is not applicable. When data is not available, an explanation for that effect should be made for that chemical property. Manufacturers may also add other relevant properties, such as the dust deflagration index (Kst) for combustible dust, used to evaluate a dust's explosion potential.

Notes: _____

Emergency Numbers:

Ambulance: _____ Fire Rescue: _____

Hospital: _____ Physician: _____

OSHA: _____ Hazardous Material: _____

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## Section 10: Stability and Reactivity

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

Reactivity:
- Description of the specific test data for the chemical(s). This data can be for a class or family of the chemical if such data adequately represent the anticipated hazard of the chemical(s), where available.

Chemical stability:
- Indication of whether the chemical is stable or unstable under normal ambient temperatures and conditions while in storage and being handled.
- Description of any stabilizers that may be needed to maintain chemical stability.

Other:
- Indication of the possibility of hazardous reactions, including a statement whether the chemical will react or polymerize, which could release excess pressure 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. static discharge, shock, vibrations, or environmental conditions that may lead to hazardous conditions).
- List of all classes of incompatible materials (e.g. classes of chemicals or specific substances) 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 use, storage, or heating.

## Section 11: Toxicological Information

THIS SECTION IDENTIFIES TOXICOLOGICAL HEALTH EFFECTS/INFORMATION OR INDICATES THAT SUCH DATA ARE NOT AVAILABLE.

- The routes of exposure (inhalation, ingestion, skin and eye contact).
- The symptoms indicate the chemical's toxicity, if the information is unknown.
- Description of the delayed, immediate, or chronic effects from short and long term exposure.
- The numerical measure of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose) and LC50 (median lethal concentration) to kill 50% of test animals in a single dose).
- Description of the symptoms. This description includes the symptoms associated with 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 Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition) or found to be a potential carcinogen by OSHA.

## Section 12: Ecological Information

THIS SECTION PROVIDES INFORMATION TO EVALUATE THE ENVIRONMENTAL IMPACT OF THE CHEMICAL(S) IF IT WERE RELEASED TO THE ENVIRONMENT.

- Data from toxicity tests performed on aquatic and/or terrestrial organisms, where available (e.g. acute/chronic toxicity, toxicity data for fish, algae, crustaceans, and other plants, toxicity data on birds, bees, plants).
- Whether there is a potential for the chemical to persist and degrade in the environment either through biodegradation or other processes, such as oxidation or hydrolysis.
- Ability of the chemical to bioaccumulate (e.g. bioconcentration factor (BCF), octanol-water partition coefficient (K) and the bioaccumulation factor (BCF), where available) and
- The potential for a substance to move from the air or the groundwater (indicate results from adsorption studies or leaching studies).
- Other adverse effects (e.g. environmental fate, ozone layer depletion potential, photochemical ozone creation potential, endocrine disrupting potential, and/or global warming potential).



## Section 13: Disposal Considerations

THIS SECTION PROVIDES GUIDANCE ON PROPER DISPOSAL PRACTICES, RECYCLING OR RECLAMATION OF THE CHEMICAL(S) OR ITS CONTAINER, AND SAFE HANDLING PRACTICES TO MINIMIZE EXPOSURE. THIS SECTION SHOULD ALSO REFER THE READER TO SECTIONS 6-8 OF THE SDS.

- Description of appropriate disposal containers to use.
- Description of appropriate methods of disposal (methods to avoid).
- Description of the physical and chemical properties that may affect disposal activities.
- Language discouraging sewage disposal.
- Any special precautions for landfills or incineration activities.
- Other adverse effects (e.g., environmental fate, ozone layer depletion potential, photochemical ozone creation potential, endocrine disrupting potential, and/or global warming potential).

## Section 14: Transport Information

THIS SECTION PROVIDES GUIDANCE ON CLASSIFICATION INFORMATION FOR SHIPPING AND TRANSPORTATION OF HAZARDOUS CHEMICAL(S) BY ROAD, AIR, RAIL, OR SEA.

- UN number (i.e. four-figure identification number of the substance) and UN proper shipping name.
- Transport hazard class(es).
- Packing group number, if applicable, (based on the degree of hazard).
- Environmental hazards (e.g. identify if it is a marine pollutant according to the international regulations, as applicable).
- Guidance on transport in bulk (according to Annex II of MARPOL 73/78 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code [IBC Code]).
- Special precautions which a user must be aware of or need to comply with in connection with transport or conveyance either within or outside their premises (include when information is not available).

## Section 15: Regulatory Information

THIS SECTION IDENTIFIES THE SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT THAT IS NOT INDICATED ELSEWHERE IN THE SDS.

- Any national and/or regional regulatory information of the chemical or mixture (including any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission regulations).

## Section 16: Other Information

THIS SECTION INDICATES WHEN THE SDS WAS PREPARED OR WHEN THE LAST KNOWN REVISION WAS MADE. THE SDS MAY ALSO STATE WHERE THE CHANGES HAVE BEEN MADE TO THE PREVIOUS VERSION. YOU MAY WISH TO CONTACT THE SUPPLIER FOR AN EXPLANATION OF THE CHANGES.

## 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 keep the SDSs in a binder or notebook in a central location, or in electronic form, if employees have access to the information. Regardless, that work area must be staffed and/or have up to available for rapid access to the SDS in the case of a power outage or other emergency. Furthermore, employers may want to designate a person(s) responsible for obtaining and maintaining the SDSs. If the employer does not have an SDS, the employer or designated person(s) should contact the manufacturer to obtain one.

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A Gutmann

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