



HAZCOM Standard 2012

Hazard Communication Standard 2012

What is New?

OSHA aligned the Hazard Communication System with the Globally Harmonized System (GHS) to have:

- ▲ Harmonized definitions of hazards
- ▲ Specific criteria for labels
- ▲ Harmonized format for safety data sheets

The new rule will use a specification approach rather than a performance-oriented approach. Labels are more specific and Safety Data Sheets (SDS) will use a 16 section format rather than the 8-sections used for Material Safety Data Sheets (MSDS).

LABELS

- ▲ Product identifier
- ▲ Signal word
- ▲ Hazard statement(s)
- ▲ Pictogram(s)
- ▲ Precautionary statement(s)
- ▲ Name, address, and phone number of the responsible party.
- ▲ OSHA is requiring red borders regardless of the shipment's destination.
- ▲ The red borders increase comprehensibility.

- ▲ OSHA proposed to require labels to be updated within three months of getting new and significant information about the hazards.
- ▲ The final rule requires containers shipped six months after the information is available to be labeled accordingly.

PICTOGRAMS

The GHS pictograms and the description of coverage are listed here for your review. Learn each of the nine symbols and be aware of the type of hazard that each one represents.



Health Hazard

- ▲ Carcinogen
- ▲ Mutagenicity
- ▲ Reproductive Toxicity
- ▲ Respiratory Sensitizer
- ▲ Target Organ Toxicity
- ▲ Aspiration Toxicity



Gas Cylinder

- ▲ Gases Under Pressure



Flame

- ▲ Flammables
- ▲ Pyrophorics
- ▲ Self-Heating
- ▲ Emits Flammable Gas
- ▲ Self-Reactives
- ▲ Organic Peroxides



Corrosion

- ▲ Skin Corrosion/Burns
- ▲ Eye Damage
- ▲ Corrosive to Metals



Environment

- ▲ Aquatic Toxicity



Skull & Crossbones

- ▲ Acute Toxicity (fatal or toxic)



Flame Over Circle

- ▲ Oxidizers



Exploding Bomb

- ▲ Explosives
- ▲ Self-Reactives
- ▲ Organic Peroxides



Exclamation Mark

- ▲ Irritant (skin and eye)
- ▲ Skin Sensitizer
- ▲ Acute Toxicity
- ▲ Narcotic Effects
- ▲ Respiratory Tract Irritant
- ▲ Hazardous to Ozone Layer (Non-Mandatory)

Safety Data Sheets

THE NEW SAFETY DATA SHEETS

The Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012, requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets (SDS, formerly MSDS) for each hazardous chemical to downstream users to communicate information on these hazards. The information contained in the SDS is largely the same as the MSDS, except now the SDSs are required to be presented in a consistent 16-section format.

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.

Sections 1 through 8 contain general information about the chemical, identification, hazards, composition, safe handling practices, and emergency control measures (e.g., fire fighting). 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 contain Sections 12 through 15, to be consistent with the UN Globally Harmonized System (GHS) of Classification and Labeling of Chemicals, but OSHA will not enforce the content of these sections because they concern matters handled by other agencies.

Section 1: Identification

- ▲ Product identifier used on the label and any other common names or synonyms.
- ▲ Name, address, phone number of the manufacturer, or responsible party, and emergency phone number.
- ▲ Recommended use of the chemical.

Section 2: Hazard Identification

- ▲ The hazard classification of the chemical (e.g., flammable liquid, category 1).
- ▲ Signal word.
- ▲ Hazard statement(s).

- ▲ Pictograms (the pictograms or hazard symbols may be presented as graphical reproductions of the symbols in black and white or be 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 an ingredient(s) 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 tied to the individual ingredient(s).

Section 3: Composition/Information on Ingredients

This section identifies the ingredient(s) contained in the product indicated on the SDS, including impurities and stabilizing additives. This section includes information on substances, mixtures, and all chemicals where a trade secret is claimed. The required information consists of:

Substances

- ▲ Chemical name.
- ▲ Common name and synonyms.
- ▲ Chemical Abstracts Service (CAS) number and other unique identifiers.
- ▲ Impurities and stabilizing additives.

Mixtures

- ▲ Same information required for substances.
- ▲ The chemical name and concentration.
- ▲ The concentration (exact percentages) of each ingredient.

Trade Secrets

- ▲ A statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

Section 4: First-Aid Measures

- ▲ 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.



By June 1, 2015, all chemical manufacturers and distributors should have completed their reclassification of chemicals and be shipping GHS formatted SDSs and labels with their shipments. By this time too, a majority of your library will have turned over to the new SDS format.

- ▲ Recommendations for immediate medical care and special treatment needed, when necessary.

Section 5: Fire-Fighting Measures

- ▲ 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

This section provides recommendations on the appropriate response to spills, leaks, or releases.

- ▲ Use of personal precautions and protective equipment to prevent the contamination of skin, eyes, and clothing.
- ▲ Emergency procedures.
- ▲ Methods and materials used for containment.
- ▲ Cleanup procedures.

Section 7: Handling and Storage

- ▲ 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.

- ▲ Recommendations on the conditions for safe storage, including any incompatibilities. Provide advice on specific storage requirements.

Section 8: Exposure Controls/Personal Protection

- ▲ OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and any other exposure limit used or recommended.
- ▲ Appropriate engineering controls.
- ▲ Recommendations for personal protective measures to prevent illness or injury from exposure to chemicals, such as personal protective equipment (PPE).
- ▲ Any special requirements for PPE, protective clothing or respirators.

Section 9: Physical & Chemical Properties

- ▲ Appearance (physical state, color, etc.);
- ▲ Upper/lower flammability or explosive limits;
- ▲ Odor;
- ▲ Vapor pressure;
- ▲ Odor threshold;
- ▲ Vapor density;
- ▲ pH;
- ▲ Relative density;
- ▲ Melting point/freezing point;
- ▲ Solubility(ies);
- ▲ 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.

Section 10: Stability and Reactivity

This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts:

- ▲ Reactivity
- ▲ Chemical stability
- ▲ Other

Section 11: Toxicological Information

- ▲ Information on the likely routes of exposure.
- ▲ Description of the delayed, immediate, or chronic effects from short- and long-term exposure.
- ▲ The numerical measures of toxicity.
- ▲ Description of the symptoms associated with exposure to the chemical.
- ▲ Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens or has been found to be a potential carcinogen.

Section 12: Ecological Information*

- ▲ This section provides information to evaluate the environmental impact of the chemical(s) if it were released to the environment.

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.

Section 14: Transport Information*

- ▲ This section provides guidance on classification information for shipping and transporting of hazardous chemical(s) by road, air, rail, or sea.

Section 15: Regulatory Information*

- ▲ This section identifies the safety, health, and environmental regulations specific for the product that is not indicated anywhere else on the SDS.

Section 16: Other Information

- ▲ This section indicates when the SDS was prepared or when the last known revision was made. Other useful information also may be included here.

Employer Responsibility

Employers must ensure that SDSs are readily accessible to employees for all hazardous chemicals in their workplace. For example, employers may keep the SDSs in a binder or on computers as long as the employees have immediate access to the information without leaving their work area when needed and a back-up is available for rapid access to the SDS in the case of a power outage or other emergency.

* Covered by agencies other than OSHA

SAFETY TRAINING SIGN-IN SHEET

Company Name: _____ Date: _____

Subject: Hazard Communication Standard 2012

The following employees participated in this training. Sign and print your name.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____