

MANDATORY TRAINING

Please sign and return form to EHS bldg. 426

OSHA requires **ALL** employees to be trained on the following information:

This is a requirement for everyone: Contractor, Government, Administrative, Facilities, Laboratory, both off site and on.

OSHA has revised the Hazard Communication Standard (HCS) to a globally harmonized system (GHS) of labeling chemicals.

Major changes to the Hazard Communication Standard:

- **Hazard classification:** Chemical manufacturers and importers are required to determine the hazards of the chemicals they produce or import. Hazard classification under the new, updated standard provides specific criteria to address health and physical hazards as well as classification of chemical mixtures.
- **Labels:** Chemical manufacturers and importers must provide a label that includes a signal word, pictogram, hazard statement, and precautionary statement for each hazard class and category.
- **Safety Data Sheets:** The new format requires 16 specific sections, ensuring consistency in presentation of important protection information.

SAMPLE LABEL

CODE _____ Product Name _____	}	Product Identifier	Hazard Pictograms 
Company Name _____ Street Address _____ City _____ State _____ Postal Code _____ Country _____ Emergency Phone Number _____	}	Supplier Identification	Signal Word Danger
Keep container tightly closed. Store in a cool, well-ventilated place that is locked. Keep away from heat/sparks/open flame. No smoking. Only use non-sparking tools. Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Ground and bond container and receiving equipment. Do not breathe vapors. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Dispose of in accordance with local, regional, national, international regulations as specified. In Case of Fire: use dry chemical (BC) or Carbon Dioxide (CO ₂) fire extinguisher to extinguish. First Aid If exposed call Poison Center. If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.			Highly flammable liquid and vapor. May cause liver and kidney damage.
Precautionary Statements			Hazard Statements
Supplemental Information Directions for Use _____ _____ _____ Fill weight: _____ Lot Number: _____ Gross weight: _____ Fill Date: _____ Expiration Date: _____			

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HCS Pictograms and Hazards

Health Hazard  <ul style="list-style-type: none"> • Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity 	Flame  <ul style="list-style-type: none"> • Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides 	Exclamation Mark  <ul style="list-style-type: none"> • Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity (harmful) • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non-Mandatory) 			
Gas Cylinder  <ul style="list-style-type: none"> • Gases Under Pressure 	Corrosion  <ul style="list-style-type: none"> • Skin Corrosion/ Burns • Eye Damage • Corrosive to Metals 	Exploding Bomb  <ul style="list-style-type: none"> • Explosives • Self-Reactives • Organic Peroxides 	Flame Over Circle  <ul style="list-style-type: none"> • Oxidizers 	Environment (Non-Mandatory)  <ul style="list-style-type: none"> • Aquatic Toxicity 	Skull and Crossbones  <ul style="list-style-type: none"> • Acute Toxicity (fatal or toxic)

Label elements include:

Product identifier – chemical ID - chemical name, code # or batch #. The same ID must be on Section 1 of the SDS

Signal word – relative severity – more severe “Danger” or less severe “Warning”. If two levels then most severe word is used.

Pictogram – shape of a square set at a point, include a black hazard symbol on a white background with red frame. OSHA designates 8 pictograms (above).

Hazard Statement(s) – describes the nature of the hazard(s), including, the degree of hazard. The statements are specific to the classification categories, always use the same statement for the same hazards.

Precautionary statement(s) – a phrase that describes recommended measures that should be taken for safety.

Name, address and phone number of the chemical manufacturer, distributor, or importer.

Labels can be used to quickly ensure proper storage, quickly identify first aid measures. When a chemical has multiple hazards different pictograms are used to identify various hazards and when there are similar precautionary statements, the most protective one is included.

Material Safety Data Sheets (MSDSs) are now called Safety Data Sheets (SDSs) and include a new format. The new 16-section SDS format includes:

- Section 1:** Identification, identifiers, manufacturer info. 7 emergency phone #, general usage
- Section 2:** Hazard Identification(s), hazard classification, signal word(s), hazard statement, pictogram, other hazards, % of unknown hazards.
- Section 3:** Composition, information on ingredients, chemical name, synonyms, CAS #, impurities and mixtures.
- Section 4:** First Aid Measures, immediate care, symptoms and effects
- Section 5:** Firefighting measures
- Section 6:** Accidental release measures, clean-up and emergency procedures
- Section 7:** Handling and storage,
- Section 8:** Exposure controls and Personal protective equipment (PPE)
- Section 9:** Physical and chemical properties
- Section 10:** Stability and reactivity
- Section 11:** Toxicological information, routes of exposure, delayed, immediate, chronic effects, numerical measure of toxicity, carcinogen listing
- Section 12:** Ecological information (non-mandatory)
- Section 13:** Disposal considerations (non-mandatory)
- Section 14:** Transport information (non-mandatory)
- Section 15:** Regulatory information (non-mandatory)
- Section 16:** Other information, when created and last revision

***All new SDS that are created must follow this new format.**

For more information, quick reference cards in English and Spanish, and to find out more information go to: <http://www.osha.gov/dsg/hazcom/index.html>. Call EHS at x1451 if you have any questions.

I have read and am aware of the new GHS changes to the OSHA HCS outlined above:

Employee name (printed): _____ Employee number: _____

Employee signature: _____ Date: _____

Please return to EHS: Building 426 Room 118, fax to 301-846-6619, or email ehsforms@mail.nih.gov