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Hazard Communication Program
Globally Harmonized System

What's it about?

The Globally Harmonized System (GHS) is a method for standardizing and harmonizing the classification and labeling of chemicals world wide.

Why Modify the HCS?

- The frame work won't change.
- Improve quality Consistency of hazard information.
- Safer for workers to do their jobs.
- Employers can stay more competitive.
- Align HCS with GHS will enhance workers understanding of hazards.
- Reduces trade barriers.

What are the benefits of Harmonization?

- Improve quality and consistency of hazard information.
- Simplified communications on chemical hazards.
- Greater awareness of hazards.
- Safer use of chemicals.
- Safer work environment.
- Improved relations with workers.
- Reduced cost of compliance.

What are the changes you can anticipate?

- Specific criteria for health and physical hazards.

- New labeling system that includes a harmonized signal word, pictogram, & hazard statement based on hazard classification.

- Precautionary statements must also be provided.

- Safety Data Sheets (SDS) will have a specific 16 section format.

- Training for workers on these changes must take place by 12-1-13.

New Definitions for the HCS 2012

- **Hazard Category;**
- **Hazard Class;**
- **Hazards not otherwise classified (HNOC);**
- **Health Hazard;**
- **Pictogram;**
- **Precautionary Statement;**
- **Safety Data Sheet (SDS)**

Will everything change?

Many program elements are similar, but not exactly alike

- **Chemical inventory**
- **Safety data sheets**
- **Labeling**
- **Written program**
- **Training**

Changed label elements, SDS formats, and harmonized classification

Building block approach to identify:

- **Physical hazards**
- **Health hazards**
- **Hazard category**

Specified label requirements

Contains:

- Product name
- Product Identifier
- Supplier Identification
- Precautionary measures
- Symbols/pictograms
- Signal words
- Hazard statements
- Supplemental information

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Sample Label

Product Identifier

CODE

Product Name

Supplier Identification

Company Name
Street Address
City State
Postal Code Country
Emergency Phone Number

Precautionary Statements

Keep container tightly closed. Store in 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 measure 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 (on hair): Take off immediately any contaminated clothing. Rinse skin with water.

Hazard Pictograms

Signal Word

Danger

Hazard Statement

Highly flammable liquid and vapor.
May cause liver and kidney damage.

Supplemental Information

Directions for use

Fill weight:

Gross weight:

Lot Number
Fill Date:

Expiration Date:

Physical hazards

- Explosives
- Flammable gases
- Flammable aerosols
- Oxidizing gases
- Gases under pressure
- Flammable liquids
- Flammable solids
- Self-reactive substances
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances
- Emits flammable gases on contact with water
- Oxidizing liquids & solids
- Corrosive to metals

Health hazards

- Acute toxicity
- Skin corrosion/Irritation
- Serious eye damage/eye Irritation
- Respiratory or skin sensitization
- Germ cell mutagenicity
- Carcinogenicity
- Reproductive toxicology
- Target organ systemic toxicity - single exposure
- Target organ systemic toxicity - repeated exposure
- Aspiration toxicity

Symbols for Pictograms

Health Hazard

- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target organ Toxicity
- Aspiration Toxicity

Flame

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

Exclamation Mark

- Irritant (Skin & Eye)
- Skin Sensitizer
- Acute Toxicity
- Narcotic Effects
- Respiratory Tract Irritant
- Hazardous to Ozone Layer (Non-Mandatory)

Gas Cylinder

- Gases under pressure

Corrosion

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

Exploding Bomb

- Explosives
- Self-Reactives
- Organic Peroxides

Flame Over Circle

- **Oxidizers**

Environment (Non-Mandatory)

- **Aquatic Toxicity**

Skull and Crossbones

- **Acute Toxicity (fatal or toxic)**

Workplace Labeling

- Will you continue to use HMIS or NFPA?

- While the hazard category number does not appear on the label, consider:

HAZARD
Category Hazard
1 highest
2 high
3 medium
4 low

- **HMIS/NFPA**
- **Index Hazard**
- 1 slight
- 2 moderate
- 3 serious
- 4 severe

Safety data sheets

- **There are 16 sections in the safety data sheet.**
- **Each section has a specified sequence and minimum information requirements.**

Safety data sheet sections and sequence

- Identification
- Hazard(s) identification
- Composition/information on ingredients
- First-aid measures
- Fire-fighting measures
- Accidental release measures
- Handling and storage
- Exposure Controls/PPE
- Physical and chemical properties
- Stability and reactivity
- Toxicological information
- Ecological information*
- Disposal considerations*
- Transport information*
- Regulatory information*
- Other Info - Date prepared/revised

* Regulated by other Agencies

Training

- The material safety data sheet (MSDS) is now a safety data sheet (SDS).
- To facilitate understanding of changes training is required by 12-1-2013.
- Explain the sequence of order in regard to the information on the SDS.
- Explain the labeling system (for received materials as well as the workplace labeling system).
- This as well as current training requirements

Implementation Dates;

mployers shall train on new labels elements and SDS by **ecember 1, 2013**.

hemical manufacturers, importers, distributors shall be compliance with changes by **June 1, 2015**.

fter **December 1, 2015**, no containers should be shipped ith out labels updated.

mployers shall have updated labeling, HCP & training on he new program, **June 1, 2016**.

hemical Mfg., importers, distributors & employers may omply with the original 1910.1200 or the revised andard as of **October. 1. 2011**.