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Globally Harmonized Systems (GHS)

What is GHS?

- Globally Harmonized System of Classification and Labeling of Chemicals
- Implemented through HazCom
- Provides a universal approach towards Hazard Communication
- Replaces traditional MSDS

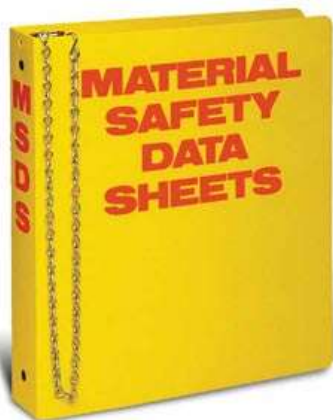


What is GHS?

- GHS provides standardized safety and health information (Product Labeling, Safety Data Sheets)
- Hazard Communication makes you safer by being aware of the chemicals around you in the workplace.
- Chemicals can have both physical and health hazards

What is an MSDS?

- Government regulation that requires manufacturers to produce a document explaining the characteristics of a chemical they produce, its qualities, risks, etc.
- OSHA requires a copy of MSDS sheets to be kept on file at each facility for each hazardous chemical present in the workplace.
- These are normally kept in an MSDS binder to make them available to all employees.



Upcoming Changes

1) Manufacturer Labels

- ✓ Significant changes to the appearance of the warning label, with pictograms

2) Safety Data Sheets

- ✓ 16 part New Format

Pictograms










Hazard pictograms form part of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Hazard pictograms are one of the key elements for the labeling of containers under the GHS, along with:

- **an identification of the product;**
- **a signal word – either **DANGER** or **WARNING** – where necessary**
- **hazard statements, indicating the nature and degree of the risks posed by the product**
- **precautionary statements, indicating how the product should be handled to minimize risks to the user (as well as to other people and the general environment)**
- **the identity of the supplier (who might be a manufacturer or importer)**

HCS Pictograms and Hazards

HCS Pictograms and Hazards

<p>Health Hazard</p> 	<p>Flame</p> 	<p>Exclamation Mark</p> 
<ul style="list-style-type: none"> • Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity 	<ul style="list-style-type: none"> • Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides 	<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)
<p>Gas Cylinder</p> 	<p>Corrosion</p> 	<p>Exploding Bomb</p> 
<ul style="list-style-type: none"> • Gases under Pressure 	<ul style="list-style-type: none"> • Skin Corrosion/ burns • Eye Damage • Corrosive to Metals 	<ul style="list-style-type: none"> • Explosives • Self-Reactives • Organic Peroxides
<p>Flame over Circle</p> 	<p>Environment (Non Mandatory)</p> 	<p>Skull and Crossbones</p> 
<ul style="list-style-type: none"> • Oxidizers 	<ul style="list-style-type: none"> • Aquatic Toxicity 	<ul style="list-style-type: none"> • Acute Toxicity (fatal or toxic)

What is on a GHS - Compliant Label?

You will find the following information elements on chemical labels:

- Product identifier
- Supplier identification
- Signal word
- Pictogram
- Hazard statement
- Precautionary statement
- Supplemental information

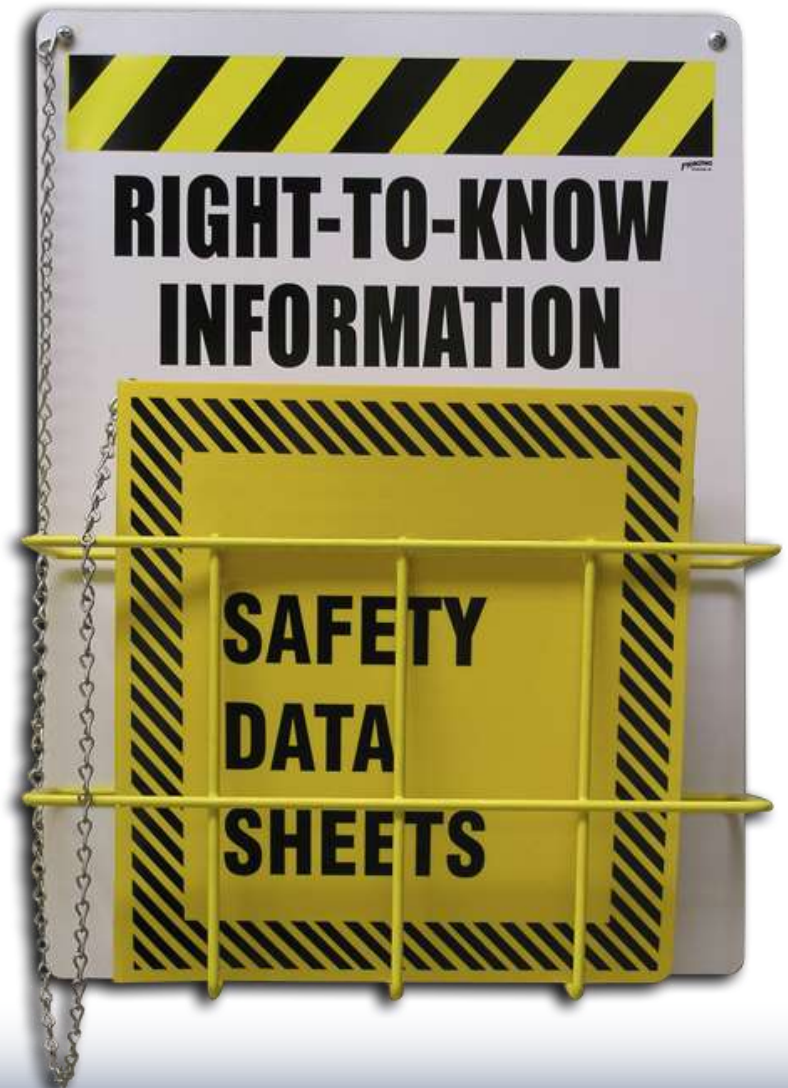
Labels give you a snapshot of the risks associated with a chemical.

SAMPLE LABEL

CODE _____ Product Name _____	} Product Identifier	Hazard Pictograms Signal Word Danger
Company Name _____ Street Address _____ City _____ State _____ Postal Code _____ Country _____ Emergency Phone Number _____	} Supplier Identification	
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.		Hazard Statements Highly flammable liquid and vapor. May cause liver and kidney damage.
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.		Supplemental Information Directions for Use _____ _____ _____ Fill weight: _____ Lot Number: _____ Gross weight: _____ Fill Date: _____ Expiration Date: _____

Safety Data Sheets

- SDS replaces MSDS
- 16-section format
- More complete information
- Binders do not need to be replaced at this time.



Section 1-8 Safety Data Sheets

Section 1: Chemical and Supplier Information

Section 2: Hazards Identification

Section 3: Composition and Information on Ingredients

Section 4: First Aid Measures

Section 5: Fire-Fighting Measures

Section 6: Accidental Releases Measures

Section 7: Handling and Storage

Section 8: Exposure Controls and PPE

Section 9-16 Safety Data Sheets

Section 9: Physical and Chemical Properties

Section 10: Stability and Reactivity

Section 11: Toxicological Information

Section 12: Ecological Information

Section 13: Disposal Considerations

Section 14: Transportation Information

Section 15: Regulatory Information

Section 16: Other Information

Hazard Communication Safety Data Sheets

SAMPLE

Section 1, Identification includes **product identifier**; manufacturer or distributor name, address, phone number; emergency phone number; recommended use; restrictions on use.

Section 2, Hazard(s) identification includes **all hazards** regarding the chemical; required label elements.

SIGMA-ALDRICH

sigma-aldrich.com

Material Safety Data Sheet

Version 5.0
Revision Date 10/31/2012
Print Date 03/19/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Diazald®
Product Number : D28000
Brand : Aldrich
Supplier : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone : +1 800-325-5832
Fax : +1 800-325-5052
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555
Preparation Information : Sigma-Aldrich Corporation
Product Safety - Americas Region
1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Skin sensitizer, Irritant, Explosive

GHS Classification
Self reactive substances (Type C)
Acute toxicity, Oral (Category 5)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitization (Category 1)
Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal word : Danger

Hazard statement(s)
H242 Heating may cause a fire.
H303 May be harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMS Classification
Health hazard: 2

Employee Responsibilities

- Read and interpret labels and SDSs
- Follow employer instructions and warnings
- Identify hazards before starting a job
- Participate in training

