

of Central Pennsylvania

Life without limits for people with disabilities"

## Hazard Communication

& Safe Handling of Workplace Chemicals

## **Training Objectives:**

Identify components of a Hazard Communication program

Describe the different types of Hazard Communication labels

□Locate pertinent information about chemicals on labels, including other forms of hazard communication, to ensure "right to understanding" provisions of Globally Harmonized System (GHS) requirements



PA Right to Know Act OVERVIEW

- Employers are responsible for ensuring information about hazardous substances/chemicals in the workplace be made available to employees.
- Mandates employees be provided with information about the chemicals through:
  - Information on chemical labels, including universal pictograms
  - Safety Data Sheets (SDS)
  - A written Hazard Communication (HAZCOM) plan
  - Training on hazard communications (HAZCOM)



### PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW PROGRAM

### EMPLOYEE WORKPLACE NOTICE

### PUBLIC SECTOR

The Pennsylvania Worker and Community Right to Know Act requires that information about hazardous substances in the workplace and in the environment is available to public sector employees and employees of private sector workplaces not covered by the Federal Occupational Safety and Health Administration (OSHA) Hazard Communication Standard and to all persons living or working in the state. Employee rights listed below are further defined in the Worker and Community Right to know Act (P.L. 734, No. 159) and Regulations. For additional information contact the Department of Labor and Industry, Bureau of PENNSAFE, Room 155-E, Seventh and Forster Streets, Harrisburg, Pennsylvania 17120; (717) 783-2071; FAX (717) 783-5099; li-pennsafe@state.pa.us (e-mail).

#### Employee Workplace Notice:

Public sector employers (including state and location government agencies and public schools and public universities) and private sector employers not covered by the OSHA Hazard Communication Standard must post this notice informing employees of their rights under the law. This notice must be posted prominently in the workplace at a location where employee notices are normally posted.

### Training:

Public sector employers and private sector employers not covered by the OSHA Hazard Communication Standard must provide and annual education and training program to employees exposed to hazardous substances. The training program may be presented either in written form or in training sessions.

### Hazardous Substance Survey Form:

The Hazardous Substance Survey Form (HSSF) provides an inventory of the hazardous substances found in the workplace during the prior calendar year.

### Work Area List:

The Work Area List names the hazardous substances used or produced in a specific work area in the workplace. Public sector employers and private sector employers not covered by OSHA Hazard Communication Standard must update a Work Area List as least annually, must provide a copy to any employee of the work area upon request, and must offer a copy to any employee assigned to that work area.

### Material Safety Data Sheet:

The material Safety Data Sheet (MSDS) provides detailed information about a hazardous substance. In public sector workplaces and private sector workplaces not covered by the OSHA Hazard Communication Standard, an MSDS must be accessible in the work area where the hazardous substance it describes is used. MSDSs must be readily available to employees without the intervention or permission of management or supervisors, and any employee may obtain and examine an MSDS for any hazardous substance in the workplace. If an employee's request to obtain a copy of an MSDS is made to the employer in writing and, after five working days from the date the request is made, the employer fails to furnish the employee with an MSDS in the employer's possession or fails to provide the employee with proof of the employer's effort to obtain the requested MSDS from the manufacturer, importer, supplier or distributor and from the Department of Labor and Industry, the requesting employee may refuse to work with the substance.

### Environmental Hazard Survey Form:

The Environmental Hazard Survey Form (EHSF) provides information about any environmental hazards emitted, discharged or disposed of from the workplace. <u>All</u> employers are required to complete an EHSF when and if requested to do so by the Department of Labor and Industry. If an EHSF has been completed by a public sector employer or a private sector employer not covered by the OSHA Hazard Communication Standard, a copy must be provided to any employee upon request.

#### Labeling:

<u>All</u> containers and ports of pipelines of hazardous and non-hazardous substances in public sector workplaces and private sector workplaces not covered by the OSHA Hazard Communication Standard must be properly labeled. Employers must ensure that each label, sign, placard or other operating instruction is prominently affixed and displayed on the container or port of a pipeline system so that employees can easily identify the contents.

### Health and Exposure Records:

Public sector employers and private sector employers not covered by the OSHA Hazard Communication Standard must maintain and allow employee access to records of employee chemical exposure to the extent required by OSHA (under 20 CFR 1910.1200) or by the Mine Safety Health Administration (under 30 CFR 70.210 and 71.210).

### Non-discrimination:

If a public sector employee or an employee of a private sector workplace not covered by the OSHA Hazard Communication Standard believes that he or she has been discharged, disciplined or discriminated against by an employer for exercising his or her rights granted under the Pennsylvania Worker and Community Right to Know Act, that employee has 180 days from the date of the alleged violation to file a written complaint with the Department of Labor and Industry, Bureau of PENNSAFE.

> Commonwealth of Pennsylvania Edward G. Rendell, Governor



Department of Labor and Industry Stephen M. Schmerin, Secretary

## PA Right to Know Employee Workplace Notice

### Posted in UCP locations

## Hazard Communication Training Requirements

Train employees on hazardous chemicals in their work area:	Before initial assignment When new hazards are introduced Nonroutine tasks
Include in training:	Methods to determine presence/release of chemicals in work areas Hazards of chemicals Appropriate protective measures Where and how to obtain additional information



Seven Major Elements in the GHS-aligned Hazard Communication Standard

Source: OSHA

## Safety Data Sheets (SDS) & SDS Binder

- Must have SDS for each chemical and staff trained on SDS format and use
- New chemical SDS must be added to SDS Binder and staff trained on safe handling PRIOR to use (SDS usually available on internet)
- SDS Binder must be readily accessible to employees
- Most non-office locations require chemicals to remain locked when not in immediate use (unless otherwise specified)



## Safety Data Sheet (SDS) 16 section format:

- Section 1: Identification
- Section 2: Hazard(s) identification
- Section 3: Composition/information on ingredients
- Section 4: First-aid measures
- Section 5: Fire-fighting measures
- Section 6: Accidental release measures
- Section 7: Handling and storage
- Section 8: Exposure control/personal protection



## Safety Data Sheet (SDS) 16 section format:

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: Transport information Section 15: Regulatory information Section 16: Other information



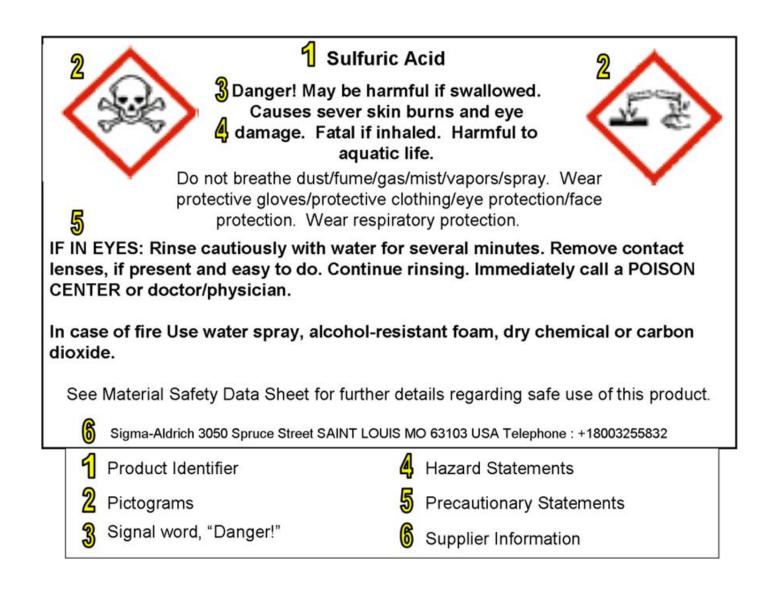
## SDS Format Example

Hydrogen Sulfide		
Section 1. Identification		
GHS product identifier	: Hydrogen Sulfide	
Chemical name	: hydrogen sulphide	
Other means of identification	<ul> <li>Hydrogen sulfide; Hydrogen sulfide (H2S); Sulfuretted hydrogen; Sewer gas; Hydrosulfuric acid; dihydrogen sulfide</li> </ul>	
Product use	: Synthetic/Analytical chemistry.	
Synonym	<ul> <li>Hydrogen sulfide; Hydrogen sulfide (H2S); Sulfuretted hydrogen; Sewer gas; Hydrosulfuric acid; dihydrogen sulfide</li> </ul>	
SDS # Supplier's details	: 001029	
Emergency telephone number (with hours of operation)	1	
Section 2. Hazar	ds identification	
OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standar (29 CFR 1910.1200).</li> </ul>	
Classification of the substance or mixture	: FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas ACUTE TOXICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	: Extremely flammable gas. May form explosive mixtures with air. Contains gas under pressure; may explode if heated. May cause frostbite. Fatal if inhaled. Extended exposure to gas reduces the ability to smell sulfides. May cause respiratory irritation.	

## **Reading Chemical Labels**

## Information required on the GHS label:

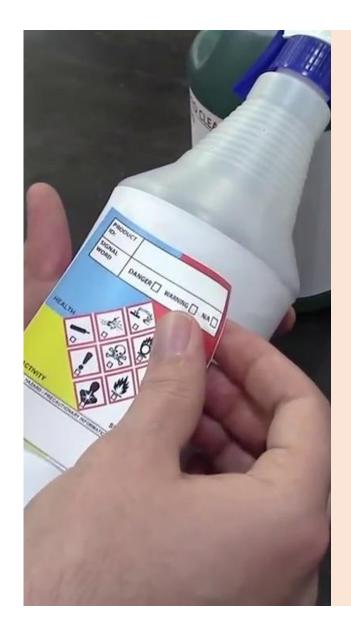
- 1. Product identifier
- 2. Pictograms
- 3. Signal (hazard) word
- (danger or warning)
- 4. Hazard statement
- 5. Precautionary
- statement
- 6. Supplier information



Hazard Communication Standard GHS Pictograms (AKA Hazard Symbols)



Hazard Communication Standard Pictogram (2012), OSHA QuickCard 3491-02, https://www.osha.gov/Publications/HazComm\_QuickCard\_Pictogram.html



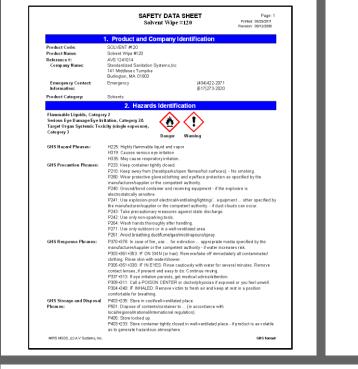
## Locating Labels & Secondary Containers

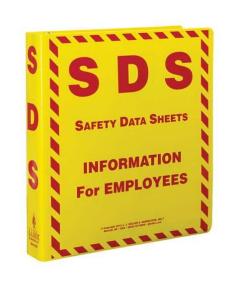
- All containers of hazardous materials must be labeled
- Secondary containers must be labeled correctly
- Do not mix different chemicals together
- Label provides immediate warning, snapshot of hazards and protective information



# What to do if you are exposed...

- Review the SDS to determine Treatment Steps/First Aid Measures
- Obtain treatment according to First Aid Measures in SDS
- Take SDS to the Physician
- Report incident to Supervisor and file Workers Comp claim







## Thank you for your participation!

