



# Training: GHS Implementation

## Hazard Communication Standard Update

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### HAMMER GHS Program Manager



# GHS Implementation

- **5/22/12 – HAMMER began working with EFCOG ESH Working Group**
- **6/12/12 – First Hanford HAZCOM/GHS Implementation Meeting**

**OSHA<sup>®</sup> QUICK CARD<sup>™</sup>**

**Hazard Communication Standard Pictogram**

As of June 1, 2015, the Hazard Communication Standard (HCS) will require pictograms on labels to alert users of the chemical hazards to which they may be exposed. Each pictogram consists of a symbol on a white background framed within a red border and represents a distinct hazard(s). The pictogram on the label is determined by the chemical hazard classification.

**HCS Pictograms and Hazards**

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

For more information:

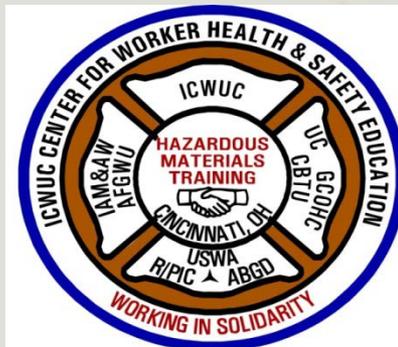
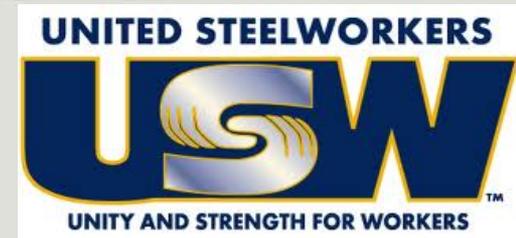

**OSHA<sup>®</sup> Occupational Safety and Health Administration**  
 U.S. Department of Labor  
[www.osha.gov](http://www.osha.gov) (800) 321-OSHA (6742)

OSHA 3491-02-2012



# GHS Implementation

- 7/30/12 – NIEHS Grant HAZWOPER Training Leads Met with HAMMER on GHS





# GHS Implementation

## 8/10/12 – Needs Analysis

- **Conducted a Tabletop Needs Analysis**
- **Included subject matter experts in the following areas:**
  - **Global Harmonization System**
  - **Hazard Communication Standard**
  - **Worker Functions/Tasks**
  - **Training Design**



# GHS Implementation

- 8/13/12 – HAMMER sent Needs Analysis Report to EFCOG
- 8/30/12 – HAMMER started work on script for a video for General Employee Training

**OSHA QUICK CARD**

**Hazard Communication Standard Labels**

OSHA has updated the requirements for labeling of hazardous chemicals under its Hazard Communication Standard (HCS). As of June 1, 2015, all labels will be required to have pictograms, a signal word, hazard and precautionary statements, the product identifier, and supplier identification. A sample revised HCS label, identifying the required label elements, is shown on the right. Supplemental information can also be provided on the label as needed.

For more information:  
**OSHA** Occupational Safety and Health  
 Administration  
 (800) 321-OSHA (6742)  
 www.osha.gov

**SAMPLE LABEL**

**Product Identifier**

Company Name: \_\_\_\_\_  
 Street Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_  
 Country: \_\_\_\_\_  
 Supplier Identification

Keep container tightly closed. Store in cool, well-ventilated place. Do not inhale. Do not get wet or dry from the body. Do not get in the eyes. Do not get on clothing. Use only in well-ventilated areas. Do not use if container is damaged. Take precautionary measures upon spill and accidental release. Do not eat, drink, or use tobacco products. Do not breathe vapors. Do not get on skin. Do not get in eyes. Do not get on clothing. Do not get on shoes. Do not get on hands. Do not get on face. Do not get on hair. Do not get on jewelry. Do not get on contact lenses. Do not get on glasses. Do not get on dentures. Do not get on hearing aids. Do not get on prostheses. Do not get on contact lenses. Do not get on glasses. Do not get on dentures. Do not get on hearing aids. Do not get on prostheses.

**Hazard Pictograms**

**Signal Word**

**Precautionary Statements**

**Hazard Statements**

**Supplemental Information**

Fire and Explosion: \_\_\_\_\_  
 Health: \_\_\_\_\_  
 Environment: \_\_\_\_\_  
 Other: \_\_\_\_\_

OSHA 3492-02 2012



# GHS Implementation

- **10/24/12 – Completed GHS Pilot Class**



## Pictogram Activity





# GHS Implementation

## SDS Activity

### SDS vs. MSDS: Weld-On 724

With your group, summarize the information found in your assigned sections of the SDS for Weld-On 724. Describe the location and similarities/differences of the equivalent information in the MSDS.

SDS Section \_\_\_\_\_

Summary:

Equivalent Information in MSDS (location, similarities, differences, details):





# GHS Implementation

## Label Activity





# GHS Implementation

## Comprehensive Practical Activity

### Practical Scenario

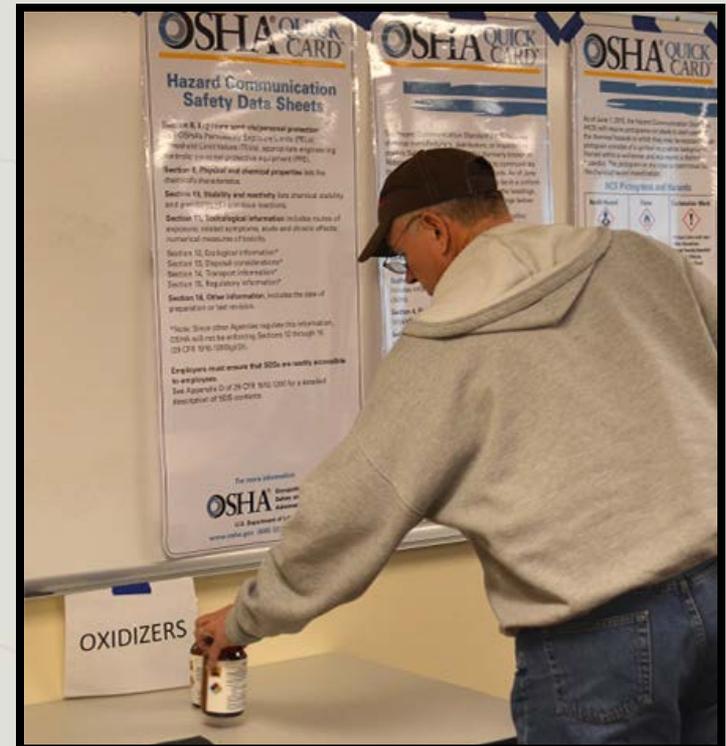
*Enabling Objective: Apply the new GHS system to model safe chemical handling.*





# GHS Implementation

## Comprehensive Practical Activity (cont.)





# GHS Implementation

## Comprehensive Practical Activity (cont.)





# GHS Implementation

- 11/13/12 – GHS Video





# GHS Implementation

- **11/7/12 – Grants started teaching HAZWOPER with HAZCOM/GHS Upgrade**
- **11/16/12 – HGET HAZCOM/GHS changes completed**
- **Other Activities**
  - **Standard Secondary Labels**
  - **Continuing Communications Program**