



# BRADY CLIENT SERVICES A RESOURCE LIKE NO OTHER.

HazCom 2012
Adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) guideline



# Meet Your Presenter



### Heather Marenda

- Client Services Engagement Manager for Brady Corporation
- As Heather is a member of ASSE, SCHC, and NFPA and has more than 15 years experience consulting, educating and developing solutions for industry regulatory compliance, safety and environmental concerns.





# **OSHA's Final Ruling**

OSHA has updated its Hazard Communication Standard (HCS) 1910.11200 to align with the United Nations' *Globally Harmonized System of Classification and Labeling of Chemicals* (GHS). **Effective May 25, 2012** 

#### Modifications include:

- 0
- Revised criteria for classification of chemical hazards
- Revised and standardized labeling requirements Primary & secondary containers
- A specified format for safety data sheets
- Requirements for employee training on labels and safety data sheets 12-1-2013



Based off of the 3rd revised edition of GHS.





# **GHS Basics**

GHS provides criteria for classifying substances and mixtures according to their health, physical and environmental hazards, then effectively communicating this.









# The Adoption of GHS

- Hazard Communication main goal is to protect people by educating on chemical hazards and proper protection
- The updated standard will increase comprehensibility with universal standardization
- The basic Hazard Communication regulation will not change
- The bulk of the changes will impact chemical manufacturers, employers who classify hazards, prepare labels, and author Safety Data Sheets (SDS's)





# **GHS Impacts on HazCom Requirements**







# **Updating Your HazCom Program**

# **Model Hazard Communication Program**

- 1. Company Policy
  - To ensure that information about the dangers of all hazardous chemicals used by (Name of Company) is known by all affected employees, the following hazardous information program has been established:
- 2. Container Labeling Revise & Train
- 3. Material Safety Data Sheets (MSDSs) Revisions. Obtain & Train
- 4. Employee Training and Information Update
- 5. Hazardous Non-routine Tasks
- 6. Informing Other Employers/Contractors
- 7. List of Hazardous Chemicals Update Your Inventory
- 8. Chemicals in Unlabeled Pipes
- 9. Program Availability
  A copy of this program will be made available, upon request, to employees and their representatives.





# **Updating Your HazCom Program**

# Review your chemical inventory:

- Update/Prepare list of chemicals
- Survey the workplace for chemicals:
  - Solids/liquids/gases/fumes
- Check for updated SDS's and current MSDS's
- Have procedures to record:
  - New chemical receipts
  - Chemical purging & disposal
  - MSDS/SDS management for both.
- Include chemical list to written program



MANCE MATTERS MOST

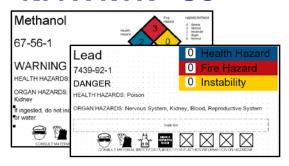
<sup>\*</sup>Your chemical inventory should be reviewed annually



# Label Standardization

#### From divergent HazCom systems ...

#### NFPA RTK - US



#### Globally-Standardized GHS Std

## WHMIS Std - Canadian RTK Acetone 1128-89

Be sure to handle this substance safely!! Target health hazards include corrosive hazard and vapor hazard. always wear proper PPE and consult Material Safety Data Sheet













# 250 L

# Acetone

ENGLISH: H200: Unstable explosives. - H221: Flammable gas. - H260: In contact with water releases flammable gases which may ignite spontaneously.

P101: If medical advice is needed, have product container or label at hand. - P220: Keep away from combustible materials. - P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.

FRANCAIS: H200: Explosif instable. - H221: Gaz inflammable. - H260: Dégage au contact de l'eau des gaz inflammables qui peuvent s'enflammer spontanément.

P101: En cas de consultation d'un médecin, garder à disposition le récipient ou l'étiquette. - P220: Tenir à l'épart des matières combustibles. - P223: Éviter tout contact avec l'eau, à cause du risque de réaction violente et d'inflammation spontanée.

DANGER 2222222-22-2 333-333-33-3 DANGER Reach Authorization # Brady Corporation Insert Comment here:

6555 West Good Hope Road Milwaukee, WI 53223

414-444-4444





# Changes to the HazCom Label

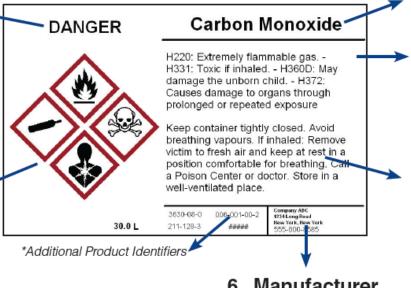
#### Six Elements of the GHS label format

#### 1. Signal Word:

Indicates relative level of hazard. "Danger" is used for most severe instances, while "Warning" is less severe.

# Symbols (Hazard Pictograms):

Convey health, physical and environmental hazard information with red diamond pictograms. May use a combination of one to five symbols.



Manufacturer Information:

Company name, address & telephone number.

3. Product Name or Identifiers\*

#### 4. Hazard Statements:

Phrases that describe the nature of hazardous products and oftentimes the degree of hazard.

# 5. Precautionary Statements:

Phrases associated with each hazard statement, that describe general preventative, response, storage or disposal precautions.





# **GHS Pictograms**

#### **Health Hazard**



Carcinogen Mutagenicity Reproductive Toxicity Respiratory Sensitizer **Target Organ Toxicity Aspiration Toxicity** 



Flammable **Pyrophorics** Self-Heating **Emits Flammable Gas** Self-Reactive **Organic Peroxides** 

#### **Exclamation Mark**

Irritant (skin and eye) Skin Sensitizer Acute Toxicity (harmful) Narcotic Effects **Respiratory Tract Irritant** Hazardous to Ozone Layer (Non Mandatory)

#### **Gas Cylinder**

Gases Under Pressure



#### Corrosion

**Flame** 

Skin Corrosion / Burns Eye Damage Corrosive to Metals



**Explosives Self-Reactives Organic Peroxides** 



Oxidizers



#### **Skull and Crossbones**

**Acute Toxicity** (Fatal or Toxic)



#### **Environment** (Non Mandatory per OSHA)

**Aquatic Toxicity** 





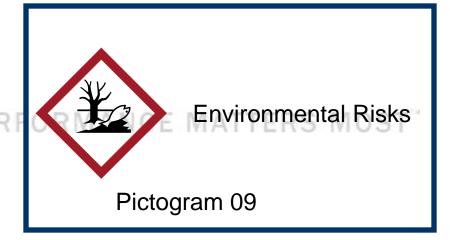


# **Label Elements- Pictograms**



Pictograms 01 – 05 in order





Pictograms 06 – 08 in order





# Representative GHS Label

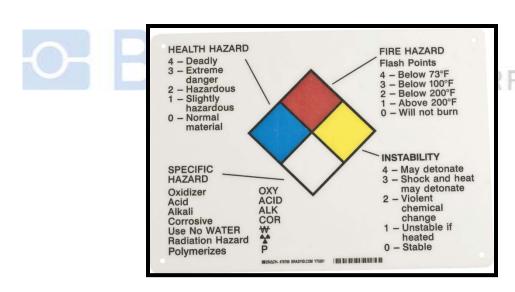






# NFPA 704 and HMIS Systems

- There are currently no plans to change the existing NFPA 704 and HMIS Systems and Classification
- These systems will still be used primarily to convey hazardous information to emergency first responders









# **Safety Data Sheet Changes**

#### **New SDS Order and Elements**

- 1. Identification of the substance or mixture and of the supplier
- 2. Hazards identification
- 3. Composition/information on ingredients
- 4. First aid measures
- 5. Firefighting measures
- 6. Accidental release measures
- 7. Handling and storage
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 10. Stability and reactivity
- 11. Toxicological information
- 12. Ecological information\*\*
- 13. Disposal considerations\*\*
- 14. Transport information\*\*
- 15. Regulatory information\*\*
- 16. Other information including information on preparation and revision of the SDS

- GHS harmonization will standardize the order of SDS information for ease of use for employees along with improved accuracy of the information presented
- Previously know as Material Data Safety Sheets (MSDS), it is now referred to as Safety Data Sheets (SDS).
- The number of sections has been increased from a nine section format to 16 sections.





# **General Training Elements of HazCom**

- A. Understanding the new Hazard Communication Standard
- B. Understanding the Safety Data Sheet
- C. Understanding Labels
  - Pictograms
  - Signal Words
  - Hazard Statements
  - Precautionary Statements
- D. Understanding Relationship of SDS and Label
- E. Understanding Health Information







# **Key Dates to Remember**

#### December 1, 2015: GHS Adoption Timeline Distributors send only updated SDSs & labels June 1, 2015: Chemical Manufacturers December 1, June 1, 2016: and Distributors 2013: reclassify chemicals, send SDSs & labels in Employer Full GHS format Compliance Deadline to Train Deadline! Employees on GHS formatting

2015

#### Key Steps

- Designate GHS Leader
- ∠ Inventory Chemicals

2013

- ✓ Update SDS Library
- Train Employees on GHS formatted labels and SDSs
- Track new GHS labels and SDSs entering facility
- ✓ Plan for entire library to be updated
- Get a GHS compliant secondary container labeling strategy



#### Tasks to Prep for Next Deadline

- ✓ Compare old SDS to new ones
- Note any new hazards on SDSs requiring new training
- ✓ Secure missing SDSs

2014

- ✓ Archive older versions
- ✓ Update written HazCom program
- Re-label secondary containers, if necessary
- Train employees on new hazards
- Meet SARA/EPCRA reporting obligations
   Stay current on GHS

#### Must Do's for Chemical Mfgrs and Distributors

- ✓ Gather relevant chemical data
- Review data to determine hazards
- ∠ Classify / categorize
- Use briding principles to determine hazards for mixtures if needed
- Produce/Author/Re-Author safety data sheets and labels in GHS format
- Ensure SDSs and labels address specific standards of each country to which they ship (even GHS adoption differs region to region

2016



# HazCom 2012 Basics

- SDS is required to convert secondary container labels
- New SDS's and primary container labels will begin arriving
  - Replace old MSDS's with new SDS's
  - Keep all MSDS, consider separate binders for MSDS vs SDS
- Review current HazCom written plan
  - Update as needed until 2016
- Update your chemical inventory Annual requirement
  - Dispose of product no longer in use or with no MSDS/SDS
- Talk to your vendors about their new plan
- Don't forget to notify your local emergency services with new SDS information
- Train your employees, repeat



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# Thank you!

#### **Brady Client Services Offers:**

GHS Awareness Training
GHS Seminars

#### For Training or Services questions, contact:

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WHEN PERFORMANCE MATTERS MOST

Or Bradyclientservices@bradycorp.com

#### Contact your local Fisher Representative for Brady GHS PRODUCTS including:

Stock Signs
Custom Signs
Pre-printed GHS Pictogram labels
Printers
Specialty Chemical Labels
Chemical Labeling Software

