OSHA’s Revised HAZCOM Standard
(3/26/2012)

GHS
The Globally Harmonized System
Of Classification and Labeling of Chemicals

Your Right to Know and Understand Hazardous Chemicals Used in the Workplace
Evolution of the OSHA HAZCOM Standard

1983 – OSHA First Implements its Hazardous Communications Standard for Manufacturing ONLY

1987 – OSHA Expands to Include All Industries

1994 – Changes for Multi-Employer Worksites

2012 – OSHA adopts the International Approach Called the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals (Rev 3)
# OSHA’s Revised HAZCOM Standard

<table>
<thead>
<tr>
<th>Effective Completion Date</th>
<th>Requirement(s)</th>
<th>Who</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 26, 2012</td>
<td>Final Rule Published</td>
<td>OSHA</td>
</tr>
<tr>
<td><strong>December 1, 2013</strong></td>
<td>Train Employees</td>
<td>Employers</td>
</tr>
<tr>
<td>Transition Period</td>
<td>Comply with Old and Begin Compliance with New HCS Standard</td>
<td>All chemical manufacturers, importers, distributors and employers</td>
</tr>
<tr>
<td><strong>June 1, 2015</strong></td>
<td>Compliance)</td>
<td>All chemical manufacturers, importers, distributors and employers</td>
</tr>
<tr>
<td>December 1, 2015</td>
<td>Distributors may ship products labeled under the old system until this date</td>
<td>Distributors</td>
</tr>
<tr>
<td>June 1, 2016</td>
<td>Update workplace labeling and HAZCOM program</td>
<td>Employers</td>
</tr>
</tbody>
</table>
Changes to the OSHA HAZCOM Standard

**Old** OSHA HAZCOM Standard:

- Material Safety Data Sheets (MSDS) are performance-based, required content but *no set format*
  - Information was different for each company
  - Workers had *difficulty understanding* information
  - The length and complexity made it *difficult to locate important safety information*

- Chemical product *labels had minimal information*
Changes to the OSHA HAZCOM Standard

NEW OSHA HAZCOM Standard with GHS:

- Prescribes a **16-Part Safety Data Sheet** (SDS) Format and Contents
- Chemical Product Labels Require New **Prescribed Information** Linked to New Criteria for Health and Physical Hazard Classifications and Categories

This Standard Update Gives Workers Access to Labels and Safety Data Sheets with Information that is Easier to Find and Understand as well as the Right to Know
Changes to the OSHA HAZCOM Standard

Material Safety Data Sheets

The Primary Source for Chemical Product Hazard Information

Are Now Called Safety Data Sheets

Must be in English
Should be Available in Languages of ESOL Workers
Got a Question

• Don’t Know If a New Product Can Cause Illness
• How Do You Use It and Protect Yourself
• What Do You Do In Case of a Spill

**READ the SDS Before You Use the Product**

• Lists Routes of Entry, Symptoms of & Care if Exposed
• Recommends PPE, Handling, Storage & Cleanup

The Vendor Should Provide You a SDS With Purchase
If Not, Ask For SDS

If Product Is Not Listed in Department of Administration’s
On-Line Inventory, the Supervisor Must Send SDS to DOA Safety
To Find a SDS that Your Team Uses:

1. “SDS Lookup” Link or Desktop Icon Takes You to the SDS On-Line Inventory
2. (SiteHawk)
To Find a SDS that Your Team Uses:

2. Move Cursor Over “Ledger” Then Click on “Chemical Areas”
To Find a SDS that Your Team Uses:

3. Move Cursor Over and Click on Your Team Name to Get List Of Products Used by Your Team
To Find a **SDS** that Your Team Uses:

4. Scroll the Alphabetical List  
   Or Do A Quick Search . . .

Use Percent Sign (%) Then Key Word  
Click on Search Button
To Find a SDS that Your Team Uses:

5. Move Cursor Over Desired Product and Click on its Icon

The SDS for the Desired Product Can Now Be Viewed & Printed
Section 1: Identification – Includes the

- Product Identifier
- Manufacturer’s or Distributor’s
  - Name
  - Address
  - Phone Number
- Emergency Phone Number
- Recommended Use
- Restrictions on Use
Changes to the OSHA HAZCOM Standard

**Safety Data Sheets – 16 Part Format:**

**Section 2:** Hazard(s) Identification
- All Hazards Regarding the Chemical
- Required Label Elements

**Section 3:** Composition / Ingredients
- Information on Chemical Ingredients
- Trade Secret Claims

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**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing in areas where chemicals are used and stored. Cool fire exposed containers with water.

**Unusual Fire and Explosion Hazards:** Highly combustible liquid. Thrown above the flashpoint will release flammable vapor that can present a fire or explosion hazard.

**Section 5:** First Aid Measures
- Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilation area. Contain and collect liquid in an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spill to authorities as required.

**Section 7:** Handling and Storage
- Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing fumes. Use with adequate ventilation. Keep away from heat, but not in direct sun or open flame. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of reach of children.
- Storage: Store in a cool, well-ventilated area, away from incompatible materials. AIP/OSHA Class 3B liquid.

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**Chemical**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe Hydrazylane Heavy Nitrogen Oil</td>
<td>5 mg/m³ TWA (OSHA/Tributylborane)</td>
</tr>
<tr>
<td>TWA (OSHA), REL (NIOSH)</td>
<td>5 mg/m³ TWA (OSHA), REL (NIOSH)</td>
</tr>
</tbody>
</table>

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**Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>150°F</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.8970-0.8973 g/cm³</td>
</tr>
</tbody>
</table>
| Flash Point | Greater than 36°F (Tap)

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**Proprietary Information**

New Established

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**Emergency and First Aid Measures**

Emergency: Call 911 or local emergency response for reportable release or fire.

First Aid: Do not perform oral administration. Do not give water. Use eye protection. Take precautions to avoid contact with skin and clothing. Wash skin with soap and water after handling.

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**Regulatory Information**

OSHA Hazard Communication Standard: In general, the standard requires employers to provide employees with information on hazardous chemicals. This includes warning labels, material safety data sheets (MSDS), and training on the hazards of the chemicals.

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**Safety Data Sheet Information**

- **Section 1:** Identification
- **Section 2:** Hazard(s) Identification
- **Section 3:** Composition / Ingredients
- **Section 4:** First Aid Measures
- **Section 5:** Fire Fitting Procedures
- **Section 6:** Health Information
- **Section 7:** Chemical and Physical Properties
- **Section 8:** Exposure Controls / Personal Protection
- **Section 9:** Physical and Chemical Properties
- **Section 10:** Stability and Reactivity
- **Section 11:** Transportation Information
- **Section 12:** Regulatory Information
- **Section 13:**Other Information

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**OSHA HAZCOM:** The Occupational Safety and Health Administration (OSHA) has regulations that require employers to provide employees with information on hazardous chemicals. This includes warning labels, material safety data sheets (MSDS), and training on the hazards of the chemicals.
Changes to the OSHA HAZCOM Standard

Safety Data Sheets – 16 Part Format:

Section 4: 1st Aid Measures

• Important Symptoms and Effects
  • Acute or Delayed

• Required Treatment

Section 5: Fire-Fighting Measures

• Lists Suitable Extinguishing Techniques and Equipment

• Chemical Hazards From Fire
Changes to the OSHA HAZCOM Standard

Safety Data Sheets – 16 Part Format:

Section 6: Accidental Release Measures
- Emergency Procedures
- Protective Equipment
- Proper Containment and Cleanup

Section 7: Handling and Storage
- Precautions for Safe Handling and Incompatibilities
Changes to the OSHA HAZCOM Standard

**Safety Data Sheets – 16 Part Format:**

**Section 8: Exposure Controls / Personal Protection**
- Permissible Exposure Limits
- Threshold Limit Values
- Engineering Controls
- Personal Protective Equipment

**Section 9: Physical & Chemical Properties**
- Chemical’s Characteristics
Changes to the OSHA HAZCOM Standard

**Safety Data Sheets – 16 Part Format:**

**Section 10: Stability & Reactivity**
- Lists Possibility of Hazardous Reactions

**Section 11: Toxicological Information**
- Routes of Exposure
- Related Symptoms
- Acute and Chronic Effects
- Numerical Measures of Toxicity
Changes to the OSHA HAZCOM Standard

Safety Data Sheets – 16 Part Format:

- Section 12: Ecological Information
- Section 13: Disposal Considerations
- Section 14: Transport Considerations
- Section 15: Regulatory Considerations
- Section 16: Other Information
  - Date of Preparation or Last Revision

Enforced by Other Agencies (Not OSHA)
Changes to the OSHA HAZCOM Standard

**LABELS** – as of Dec 1, 2015 will be required to have:

1. Product Identifier
2. Signal Word
3. Hazard Statement
4. Pictograms
5. Precautionary Statement
6. Supplier Identification

**SAMPLE**

ToxiFlam (Contains: X Y Z)

**Danger!**

Toxic If Swallowed
Flammable Liquid and Vapor

Do not eat, drink or use tobacco when using this product. Wash hands thoroughly after handling. Keep container tightly closed. Keep away from heat/sparks/open flame – No Smoking. Wear protective gloves and eye/face protection. Ground container and receiving equipment. Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Store in cool/well ventilated place.

**IF SWALLOWED:** Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse mouth.

In case of fire, use water fog, dry chemical, CO₂ or “alcohol” foam.

See Safety Data Sheet for further details regarding this product.

MyCompany, MyStreet, MyTown NJ 00000
Tel: 444 999 9999
Changes to the OSHA HAZCOM Standard

LABEL:

Product Identifier - the

• Chemical Name
• Product Name or
• Other Unique Identifier

Used On Both

the Label

and the

Safety Data Sheet

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Changes to the OSHA HAZCOM Standard

LABEL:

Signal Word

Indicates the Severity of the Chemical Hazard

- **DANGER** – Most Severe
- **Warning** – Less Severe

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Changes to the OSHA HAZCOM Standard

LABEL:

Hazard Statement

- Describes the Nature and Degree of the Chemical Hazard
- Standardized Phrase is Pre-Determined by its Chemical Classification and Category
  - As Evaluated by the Manufacturer In Accordance With OSHA Criteria

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Changes to the OSHA HAZCOM Standard

LABEL: Pictograms

• a Black Symbol
  (Determined By the Chemical’s Classification & Category )
• on a White Background
• with a Red Border
• Conveys Specific Information About the Hazards of the Chemical

SAMPLE

ToxiFlam (Contains: X Y Z)

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Changes to the OSHA HAZCOM Standard

LABEL: Pictograms

- **Flame Over Circle**
  - Oxidizer – Material May Cause Ignition of Combustibles Without External Source of Ignition

- **Flame**
  - Flammables, Self-Reactives, Pyrophorics, Self-Heating, Emits Flammable Gas, Organic Peroxides

- **Exploding Bomb**
  - Explosives, Self-Reactives, Organic Peroxides
Changes to the OSHA HAZCOM Standard

LABEL: Pictograms

- **Skull and Crossbones**
  - Acute Toxicity (Severe) – Poisonous; Capable of Causing Serious Debilitation or Death

- **Corrosion**
  - Corrosives – Chemical Action Eats or Wears Away Thus Weakening or Destroying Metals, or Burns Skin or Eyes

- **Gas Cylinder**
  - Gases Under Pressure
Changes to the OSHA HAZCOM Standard

LABEL: Pictograms

Health Hazard
Carcinogen; Respiratory Sensitizer; Mutagenicity; Or Reproductive, Target Organ or Aspiration Toxicity

Exclamation Mark
Irritant, Dermal Sensitizer, Acute Toxicity (harmful), Narcotic Effects, Respiratory Tract Irritant
Also Voluntarily Identifies Substances Hazardous to the Ozone
Changes to the OSHA HAZCOM Standard

**LABEL:** Other **Pictograms** You May See

- **Environment**
  - **Acute or Chronic Aquatic Toxicity**
    - Enforced By EPA (Not OSHA)

- **Biological**
  - Biological Substances Can Be Hazardous
    - But Are Not Regulated by OSHA

**Exempt:**
- Consumer Products
- Articles That Under Normal Conditions Pose No Physical Hazard or Health Risk
  - Can Change If Cut Into or Welded
Changes to the OSHA HAZCOM Standard

LABEL:

Precautionary Statements

- Describes Recommended Measures to Minimize or Prevent Adverse Effects Resulting From Exposure or From Improper Handling or Storage

- Standardized Phrases are Pre-Determined by its Chemical Classification and Category

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Changes to the OSHA HAZCOM Standard

LABEL:
Supplier Identification
• The Name
• Address and
• Telephone Number
Of the
• Chemical Manufacturer
• Importer or
• Other Responsible Party

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See Safety Data Sheet for further details regarding this product.

MyCompany, MyStreet, MyTown NJ 00000
Tel: 444 999 9999
Do Not Open / Use the Container If:

- No Label
- Torn or Partially Missing Label
- Label You Cannot Read

Report to Supervisor or Safety for Replacement or Disposal
the OSHA HAZCOM Standard

LABELs Not Required On:

**Portable Containers** -
- When Transferred For Personal Use (by that Employee) ONLY
- Must Be Used by End of Shift
- **Must Have Label If Passed On to Another Worker**

**Piping Systems**
OSHA’s Revised HAZCOM Standard

New Labels with Added Information

• Signal Word
• Hazard Statement
• Pictograms
• Precautionary Statement

New Safety Data Sheet Format with 16 Prescribed Parts

How to Find SDS on SiteHawk: On-Line Inventory

QUESTIONS???

Contact Safety: Holly Bockow, 737-2311