

# Safety Policies & Programs

## 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

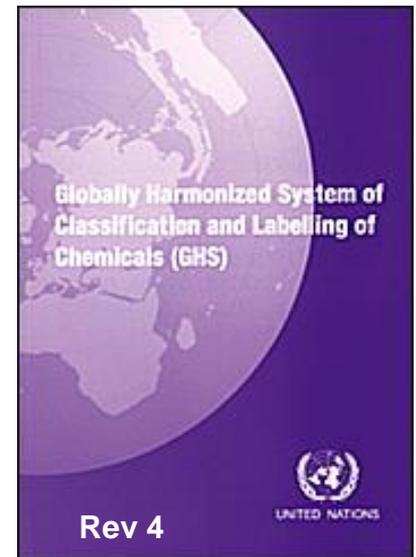
# Evolution of the OSHA HAZCOM Standard

**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

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

# 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:

BCB Safety and Emergency Services Office - Safety Policy & Programs - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

BCB Safety and Emergency Services Office ...

www.gs.sc.gov/business/safety/G5-safety-polproc.phtm

Safety Webpage

Most Visited Getting Started

Yahoo! Search

admin Department of Administration

THE SOUTH CAROLINA DEPARTMENT OF ADMINISTRATION

Search Safety



SES0 Home Page

Report an Accident

Safety Training

**MSDS Lookup**

Policies & Programs

Internal Documents

Safety Bravo!

Related Links

Contact Us

Safety & Emergency Services  
915 Main Street  
Columbia SC 29201  
(803) 737-2315

Safety Guidelin

AGENCY SAFETY POL

OSHA's new (AUG) po  
Protecting Workers W  
when using various cl

CDC: Prepare for 20  
for Swine Flu - avoid

OSHA Kicks Off Heat  
(Summer)

SPECIAL INTEREST: C  
\$1.5 million over the ye  
Falls. (May)

SiteHawk MSDS - Mozilla Firefox

File Edit View History Bookmarks Yahoo! Tools Help

SiteHawk MSDS

Most Visited Getting Started

Yahoo! Search

SiteHawk

QuickSEARCH

My MSDS Notebook MSDS Catalog

Material Name/Synonym

Type Search Words Here

General Services Division

Ledger | Support | Search

MSDS | Vendor | Chemical Areas | Archive | Release

**MSDS Ledger**

To view the manufacturer's MSDS in Adobe Acrobat, click To view the material's information, click on the **material name**. To view the manufacturer's contact information, click on the **manufacturer's name**.  
Clicking directly on the column header will reorder the list.

MSDS (English)	Material	Category	CAS	Manufacturer	MSDSDate
	"DuPont" "Advion" Ant Bait Arena			Dupont	1/23/2007
	"Plus-Fifty B"			Ansul, Inc.	9/1/2009
	# 83 Organic Odor Remover			Maintenance Supply Service Corporation	11/6/1987
	#900 Solar Seal Low-VOC			NPC Sealants	1/7/2011
	1 Gal Xtreme Blue -20" Windshield Washer Fluid			Camco Manufacturing, Inc.	2/21/2012
	1065/4235/5016/5018/5021/5026/5028/5034/ 5046/5047/5065/5126/5321/5328/5334/5335/ 5365/5624/5626/5818/5820/5828/5830/Bookmark-21 XC-1875/XC-2675/Class II, Class III, Class IV Developer			Xerox Corporation	1/7/2008
	1065/4235/5046/5047/5065/5335/5365/5365 SE/Document Centre System 35/Class III/Class IV Black Dry Ink			Xerox Corporation	3/1/2007
	10-S™ (Concentrate)			Momar Incorporated	10/6/2009
	184-Pro Link Baby Powder			Preferred Distributors, Inc.	1/20/1993
	186-Pro Link Tradewinds			Preferred Distributors, Inc.	1/20/1993
	1C Form-A-Gasket #1 Sealant 11OZ			Permatex, Inc	6/9/2010
	2 Look Glass Cleaner Ready-to-Use			Butcher Company	6/25/2003
	21425 Fast Cure Epoxy Part 1			Permatex, Inc	3/2/2009
	21425 Fast Cure Epoxy Part 2			Permatex, Inc	3/2/2009
	22 Speedball 2000 Heavy-Duty Spray Cleaner Concentrate-Use Solution (1:10)			Butcher Company	1/2/2007
	22 Speedball 2000 Power Cleaner Ready-to-Use			Butcher Company	8/25/2003
	2300 SWD Clear	Roof Coatings		Geocel Corporation	7/20/2006

1 2 3 4 5 6 7 8 9 10 ...

1.3.4615.23075 © 1993-2011 SiteHawk. All rights reserved. Privacy Statement

POWERED BY SiteHawk

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”

SiteHawk MSDS - Mozilla Firefox

SiteHawk

General Services Division

MSDS Ledger Support Search

MSDS | Vendor | **Chemical Areas** | Archive | Release

MSDS (English)

Material	Category	CAS	Manufacturer	MSDSDate
"DuPont" "Advion" Ant Bait Arena			Dupont	1/23/2007
"Plus-Fifty B"			Ansul, Inc.	9/1/2009
# 83 Organic Odor Remover				
#900 Solar Seal Low-VOC				
1 Gal Xtreme Blue -20" Windshield Washer Fluid				
1065/4235/5016/5018/5021/5026/5028/5034/ 5046/5047/5065/515334/5335/ 5365/5624/5626/5818/5820/5826/5830/Bookmark-212675/Class II, Class III, Class IV Developer				
1065/4235/5046/5047/5065/5335/5365/5365 SE/Document Centre III/Class IV Black Dry Ink				
10-S™ (Concentrate)				
184-Pro Link Baby Powder				
186-Pro Link Tradewinds				
1C Form-A-Gasket #1 Sealant 11OZ				
2 Look Glass Cleaner Ready-to-Use				
21425 Fast Cure Epoxy Part 1				
21425 Fast Cure Epoxy Part 2				
22 Speedball 2000 Heavy-Duty Spray Cleaner Concentrate-Use S				
22 Speedball 2000 Power Cleaner Ready-to-Use				
2300 SWD Clear				

1 2 3 4 5 6 7 8 9 10 ...

1.3.4615.23075 © 1993-201

QuickSEARCH

My MSDS Notebook | MSDS Catalog

Material Name/Synonym

Type Search Words Here

Ledger | Support | Search

MSDS | Vendor | **Chemical Areas** | Archive | Release

material's information, click on the material name. To view the manufacturer's contact information, click on the

Category	CAS	Manufacturer	MSDSDate
		Dupont	1/23/2007
		Ansul, Inc.	9/1/2009
		Maintenance Supply Service Corporation	11/6/1987

1 2 3 4 5 6 7 8 9 10 ...

## 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



### Chemical Area Ledger

The view the materials found in a Chemical Area, click directly on the Chemical Area name.

[Expand All](#) [Collapse All](#)

- [Aeronautics Commission - Location](#)
- [Budget and Analyses - Department](#)
- [Bus Ops Administration - Department](#)
- [Bus Ops Agency Mail - Department](#)
- [Bus Ops Surplus Property - Department](#)
- [DSIT - Location](#)
- [FM Capitol Complex - Department](#)
- [FM Construction and Planning - Department](#)
- [FM Custodial - Department](#)
- [FM Environmental and Energy - Department](#)
- [FM Horticulture - Department](#)
- [FM Maintenance - Department](#)
- [FM Maintenance New Product Temp List - Process](#)
- [FM Parking - Department](#)
- [FM Program Support - Department](#)

State Budget and Control Board  
General Services

General Services Division

### Chemical Area Materials Ledger

To view the manufacturer's MSDS in Adobe Acrobat, click To View the material's information, click on the **material name**.  
Clicking directly on the column header will reorder the list.

**FM Maintenance -**

MSDS	Material	Category	CAS	M
	"Plus-Fifty B"			A
	#900 Solar Seal Low-VOC			N
	1C Form-A-Gasket #1 Sealant 11OZ			F
	2300 SWD Clear	Roof Coatings		C
	2310 Brushable	Roof Coatings		C
	2486 Lightweight Body Filler			D
	2596			S
	27X37, Clear Wood Finish Gloss			D
	27X38, Clear Wood Finish Int. Semi-Gloss			D
	2B Form-A-Gasket #2 Sealant 3oz			F

# To Find a SDS that Your Team Uses:

## 4. Scroll the Alphabetical List

Or Do A Quick Search . . .

The screenshot shows the 'Chemical Area Materials Ledger' website. A red arrow points from the title '4. Scroll the Alphabetical List' to the entry '2310 Brushable' in the materials list. Another red arrow points from the title 'Or Do A Quick Search . . .' to the search bar in the top right corner. The search bar contains the text '%oil' and is circled in red. Below the search bar, a yellow box contains the text 'Use Percent Sign (%) Then Key Word' and 'Click on Search Button'.

MSDS Material	Category	CAS	Manufacturer	MSDSDate
"Plus-Fifty B"			Ansul, Inc.	9/1/2009
#900 Solar Seal Low-VOC			NPC Sealants	1/7/2011
1C Form-A-Gasket #1 Sealant 11OZ				
2300 WD Clear				
2310 Brushable				
2486 Lightweight Body Filler				
2596				
27X37, Clear Wood Finish Gloss				
27X38, Clear Wood Finish Int. Semi-Gloss				
2B Form-A-Gasket #2 Sealant 3oz				

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

State Subpoena and Control Board  
General Services

General Services Division

### Search Results

To view the manufacturer's MSDS in Adobe Acrobat, click .

Your search for %oil returned 82 records.  
Displaying results 1 - 25 of 82

MSDS	Material Name
	3-In-One Multi-Purpose Oil
	3-In-One Oil Professional Silicone Spray Lubricant
	Aerokroil
	Air Compressor Oils Lubriplate No's 0, 1, 2, 2A, 3, 4,
	All Climate Vacuum Pump Oil
	Amofuel No 2 Oil
	AP Armaflex
	Bar and Chain Oil

**WD-40 COMPANY**

### Material Safety Data Sheet

1 - Chemical Product and Company Identification

Manufacturer: WD-40 Company Address: 1081 Gudshy Place (92110) P.O. Box 80607 San Diego, California, USA 92138 -0607 Telephone: Emergency only: 1-888-324-7596 (PROSAR) Information: 1-888-324-7596 Chemical Spills: 1-800-424-9300 (Chemtec) 1-703-527-3887 (International Calls)	Chemical Name: Organic Mixture Trade Name: 3-IN-ONE Multi-Purpose Oil Product Use: Lubricant MSDS Date Of Preparation: February 2012
---	---

2 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent
Severely Hydrotreated Heavy Naphthenic Oil	64742-52-6	>97
Naphtha, petroleum	64742-47-8	<2
Non-Hazardous Ingredients	Mixture	<3

See Section 8 for Exposure Limits

3 - Hazards Identification

Emergency Overview:  
**CAUTION!** May cause eye irritation. Prolonged or repeated skin contact may cause mild irritation and defatting dermatitis. Avoid eye contact. Avoid prolonged or repeated contact with skin and clothing.

Symptoms of Overexposure:  
Inhalation: High concentrations of oil mists may cause nasal and respiratory irritation.  
Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.  
Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.  
Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs during swallowing or vomiting may cause chemical pneumonitis.  
Chronic Effects: None expected.  
Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

Suspected Cancer Agent:  
Yes No X

4 - First Aid Measures

Ingestion (Swallowed): Possible Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.  
Eye Contact: Flush thoroughly with water. Get medical attention if irritation persists.  
Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.  
Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

5 - Fire Fighting Measures

Extinguishing Media: Use water fog, drychemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Page 1 of 4

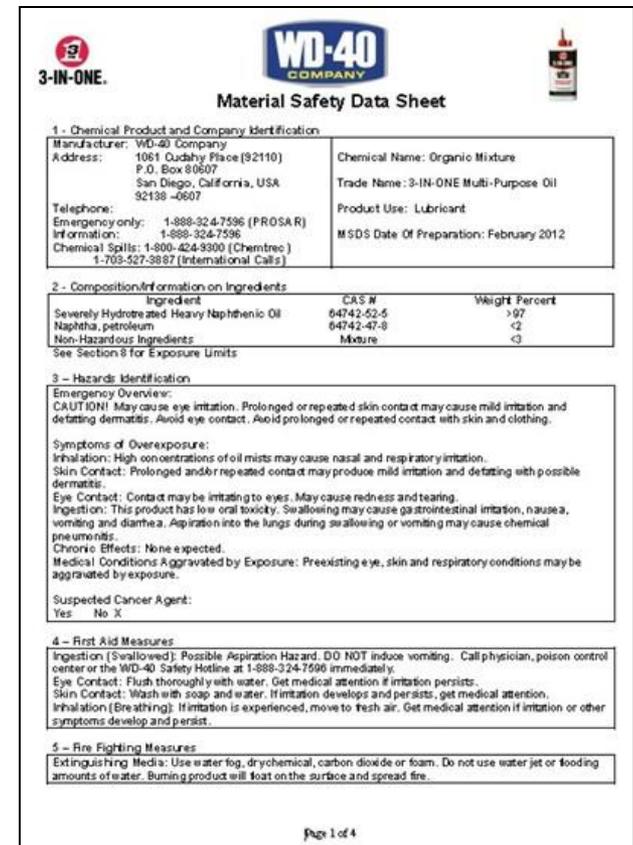
The SDS for the Desired Product  
Can Now Be Viewed & Printed

# Changes to the OSHA HAZCOM Standard

## Safety Data Sheets – 16 Part Format:

### Section 1: Identification – Includes the

- Product Identifier
- Manufacturer 's or Distributor's
  - Name
  - Address
  - Phone Number
  - Emergency Phone Number
- Recommended Use
- Restrictions on Use



**3-IN-ONE** **WD-40 COMPANY**

**Material Safety Data Sheet**

**1 - Chemical Product and Company Identification**

Manufacturer: WD-40 Company Address: 1061 Oudney Place (92110) P.O. Box 80607 San Diego, California, USA 92138-0607 Telephone: Emergency only: 1-888-324-7596 (PROSAR) Information: 1-888-324-7596 Chemical Spills: 1-800-424-9390 (Chemtree) 1-705-527-3857 (International Calls)	Chemical Name: Organic Mixture Trade Name: 3-IN-ONE Multi-Purpose Oil Product Use: Lubricant MSDS Date Of Preparation: February 2012
---	---

**2 - Composition/Information on Ingredients**

Ingredient	CAS #	Weight Percent
Severely Hydrorefined Heavy Naphthenic Oil	64742-52-5	>97
Naphtha, petroleum	64742-47-8	<2
Non-Hazardous Ingredients	Mixture	<3

See Section 8 for Exposure Limits

**3 - Hazards Identification**

**Emergency Overview:**  
CAUTION! May cause eye irritation. Prolonged or repeated skin contact may cause mild irritation and irritating dermatitis. Avoid eye contact. Avoid prolonged or repeated contact with skin and clothing.

**Symptoms of Overexposure:**  
Inhalation: High concentrations of oil mists may cause nasal and respiratory irritation.  
Skin Contact: Prolonged and/or repeated contact may produce mild irritation and irritating with possible dermatitis.  
Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.  
Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs during swallowing or vomiting may cause chemical pneumonitis.  
Chronic Effects: None expected.  
Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

**Suspected Cancer Agent:**  
Yes: No X

**4 - First Aid Measures**

Ingestion (Swallowed): Possible Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.  
Eye Contact: Flush thoroughly with water. Get medical attention if irritation persists.  
Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.  
Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**5 - Fire Fighting Measures**

**Extinguishing Media:** Use water fog, drychemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Page 1 of 4

# 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

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: Slightly combustible liquid. If heated above the flashpoint, will release flammable vapors that can present a fire or explosion hazard

#### 6 – Accidental Release Measures

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

#### 7 – Handling and Storage

Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing oil mists. Use with adequate ventilation. Keep away from heat, hot surfaces and open flames. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.  
Storage: Store in a cool, well-ventilated area, away from incompatible materials. NFPA30 Class IIIB Liquid.

#### 8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Severely Hydrotreated Heavy Naphthenic Oil	5 mg/m <sup>3</sup> TWA ACGIH TLV (Inhalable) 5 mg/m <sup>3</sup> TWA OSHA PEL
Naphtha, petroleum	1200 mg/m <sup>3</sup> TWAManufacturer recommended
Proprietary Additive	None Established

The Following Controls are Recommended for Normal Consumer Use of this Product  
Engineering Controls: Use in a well-ventilated area.

Personal Protection:

Eye Protection: Avoid eye contact.

Skin Protection: Avoid prolonged skin contact. Wash hands with soap and water after use.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended  
Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

#### 9 – Physical and Chemical Properties

Boiling Point:	>550°F	Specific Gravity:	0.866-0.923 @20°C
Solubility in Water:	Insoluble	pH:	Not Applicable
Vapor Pressure:	Not Determined	Vapor Density:	Not Determined
Percent Volatile:	Nil	VOC:	0%
Coefficient of Water/Oil Distribution:	Not Determined	Appearance/Odor	Clear amber liquid with a faint citronella odor
Flash Point:	Greater than 305°F Tag Open Cup	Flammable Limits:	Not determined
Viscosity	112 SUS (23.31 cSt) @ 100°F		

# Changes to the OSHA HAZCOM Standard

## Safety Data Sheets – 16 Part Format:

### Section 4: 1<sup>st</sup> 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

<b>10 – Stability and Reactivity</b> Stability: Stable Hazardous Polymerization: Will not occur. Conditions to Avoid: Avoid heat, flames and other sources of ignition. Incompatibilities: Strong oxidizing agents. Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.
<b>11 – Toxicological Information</b> The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.
<b>12 – Ecological Information</b> No data is currently available.
<b>13 – Disposal Considerations</b> If this product becomes a waste, it would not be expected to meet the criteria of a RCRA of a hazardous waste. However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.
<b>14 – Transportation Information</b> DOT Surface Shipping Description: Not Regulated IMDG Shipping Description: Not Regulated
<b>15 – Regulatory Information</b> U.S. Federal Regulations: CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations. SARA TITLE III: Hazard Category For Section 311/312: Non-Hazardous. Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None Section 302 Extremely Hazardous Substances (TPO): None EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain chemicals regulated under California Proposition 65. VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules. Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List, Canadian Non-Domestic Substances List, or exempt from notification Canadian WHMIS Classification: Not a controlled product. This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Page 3 of 4

# 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

HAZARD STATEMENTS BY SDS CLASSIFICATION HAZARD LABELS E08-1100

Section	Hazard Level	Hazard Statement
Physical Hazards	High Hazard	Extremely flammable liquid (P01)
	Medium Hazard	Highly flammable liquid (P02)
	Low Hazard	Flammable liquid (P02)
Health Hazards	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Environmental Hazards	High Hazard	Causes serious damage to aquatic life (P01)
	Medium Hazard	Dangerous to aquatic life (P01)
	Low Hazard	Harmful to aquatic life (P01)
Precautionary Statements	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Response	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Physical Hazards	High Hazard	Extremely flammable liquid (P01)
	Medium Hazard	Highly flammable liquid (P02)
	Low Hazard	Flammable liquid (P02)
Health Hazards	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Environmental Hazards	High Hazard	Causes serious damage to aquatic life (P01)
	Medium Hazard	Dangerous to aquatic life (P01)
	Low Hazard	Harmful to aquatic life (P01)
Precautionary Statements	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Response	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Physical Hazards	High Hazard	Extremely flammable liquid (P01)
	Medium Hazard	Highly flammable liquid (P02)
	Low Hazard	Flammable liquid (P02)
Health Hazards	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Environmental Hazards	High Hazard	Causes serious damage to aquatic life (P01)
	Medium Hazard	Dangerous to aquatic life (P01)
	Low Hazard	Harmful to aquatic life (P01)
Precautionary Statements	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)
Response	High Hazard	Causes serious eye irritation (P03)
	Medium Hazard	Irritates eyes (P03)
	Low Hazard	Causes eye irritation (P03)

# 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

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:** Potassium hydrogen phthalate  
**Catalog Numbers:** P552044, A518250, P552043, A552050  
**Synonyms:** Potassium phthalate; Potassium acid phthalate  
**Company Identification:** Fisher Scientific, Inc.  
3030 Central Expressway  
Bellefonte, PA 16801  
USA, 717.246.0000

**For information in Europe, call:** 30300 20338  
**Emergency Number, Europe:** 01 800 20338

**Section 2 - Composition, Concentration, Impurities**

Label	Chemical Name	%	MSDS#
975-10-7	Potassium hydrogen phthalate	99+	212-839-4

**Hazard Symbols:** None listed  
**Risk Phrases:** None listed

**Section 3 - Hazardous Ingredients**

**EMERGENT PROCEDURES**  
See MSDS

**Personal Health Effects:**

**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the alimentary tract. May be harmful if swallowed.  
**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.  
**Chronic:** No information found.

**Section 4 - First Aid Measures**

**Eye:** Immediately flush eyes with plenty of water for at least 15 minutes, including lifting the upper and lower eyelids. If prolonged irritation, get medical aid.  
**Skin:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.  
**Ingestion:** Do not induce vomiting. Get medical aid if irritation or symptoms occur.  
**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if rough or other symptoms occur.

**Notes to Physician:**

**Section 5 - Fire and Flammability**

**General:** As in any fire, wear a self-contained breathing apparatus in pressure-demand.

# 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

The image shows a sample Safety Data Sheet (SDS) form. The form is titled "MSD SAFETY DATA SHEET" and includes sections for Hazardous Chemical Identification, Hazardous Ingredients, Composition Information on Ingredients, and Physical and Chemical Properties. The form is filled out with various details, including chemical names, hazard symbols, and safety information.

# Changes to the OSHA HAZCOM Standard

## Safety Data Sheets – 16 Part Format:

Section 12: Ecological Information

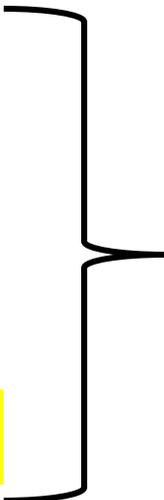
Section 13: Disposal Considerations

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, CO<sub>2</sub> 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

SAMPLE

LABEL:

**Product Identifier** - the

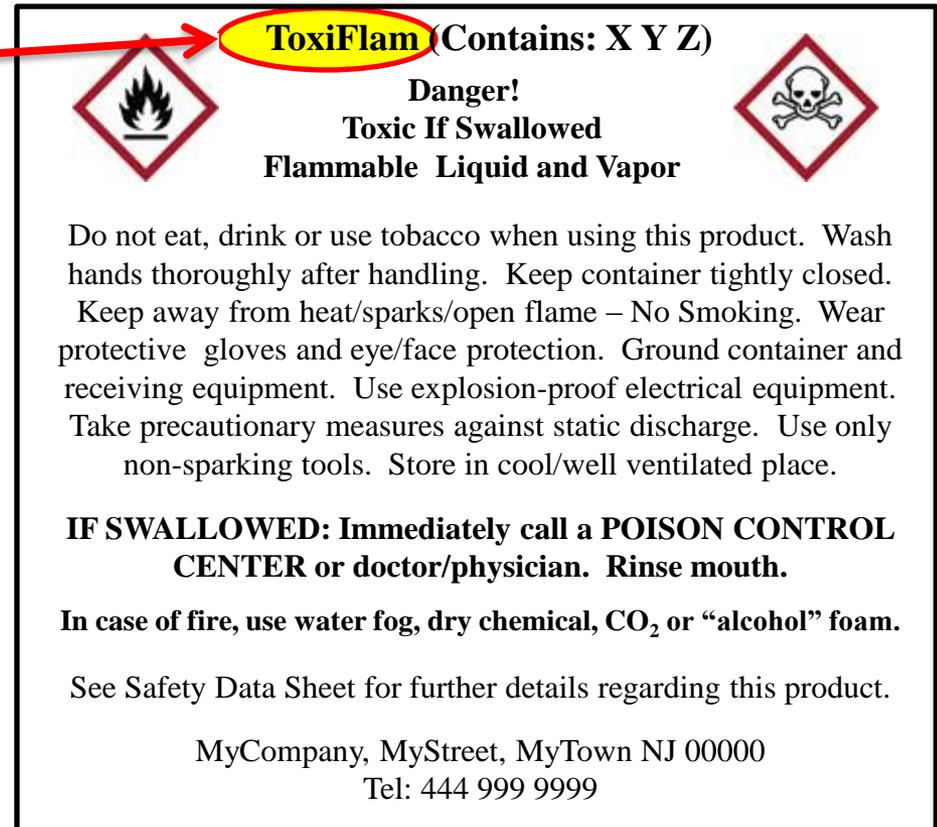
- **Chemical Name**
- **Product Name or**
- **Other Unique Identifier**

**Used On Both**

**the Label**

**and the**

**Safety Data Sheet**



**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, CO<sub>2</sub> 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

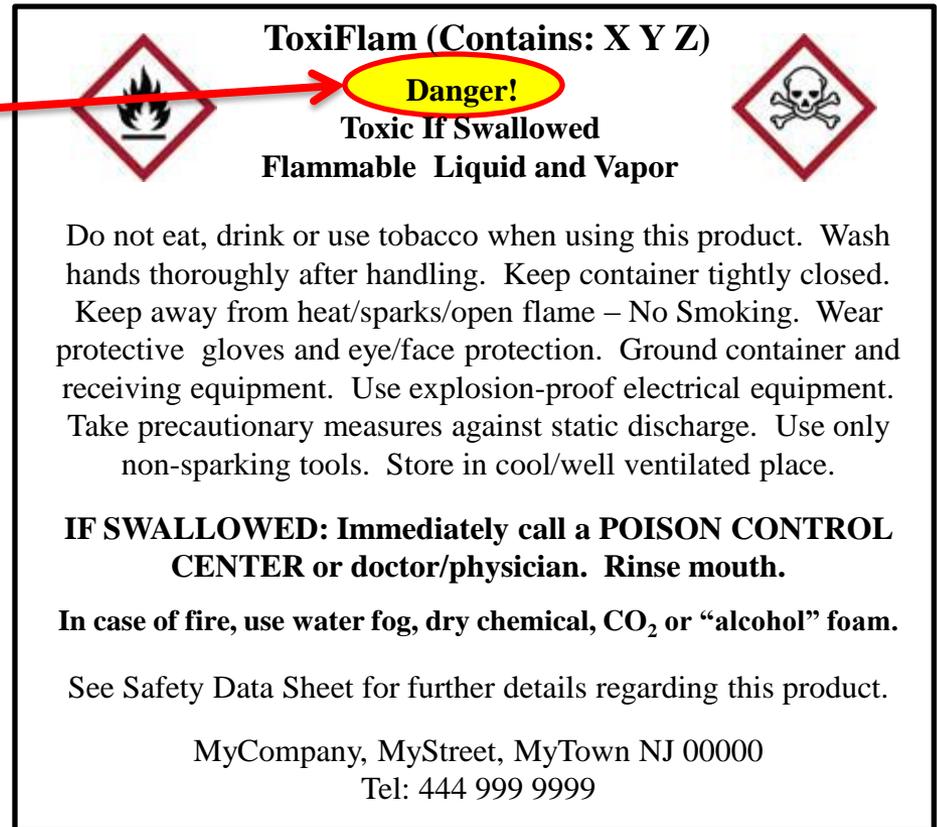
## LABEL:

### Signal Word

Indicates the Severity of the Chemical Hazard

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

### 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, CO<sub>2</sub> 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

SAMPLE

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

**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, CO<sub>2</sub> or “alcohol” foam.

See Safety Data Sheet for further details regarding this product.

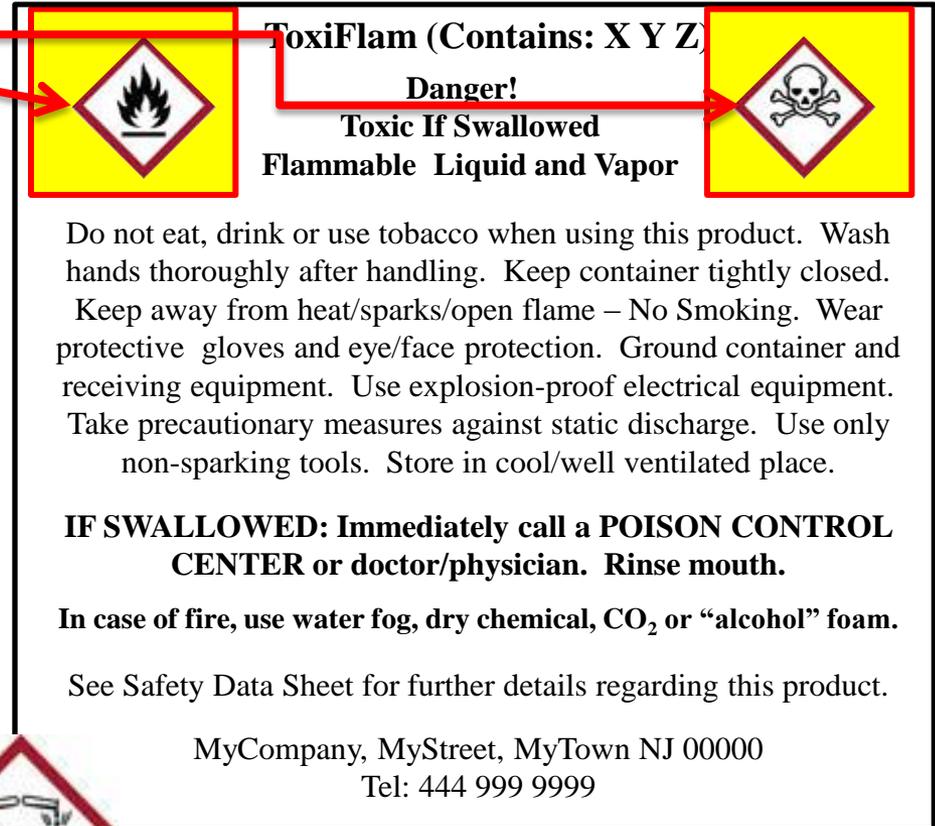
MyCompany, MyStreet, MyTown NJ 00000  
Tel: 444 999 9999

# Changes to the OSHA HAZCOM Standard

## LABEL: 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)**

**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, CO<sub>2</sub> 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: 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

## SAMPLE

### 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

**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, CO<sub>2</sub> 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

## SAMPLE

### LABEL:

### Supplier Identification

- The Name
  - Address and
  - Telephone Number
- Of the
- Chemical Manufacturer
  - Importer or
  - Other Responsible Party



**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, CO<sub>2</sub> or “alcohol” foam.

See Safety Data Sheet for further details regarding this product.

MyCompany, MyStreet, MyTown NJ 00000  
Tel: 444 999 9999

# the OSHA HAZCOM Standard

## LABELS:

**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