

# HAZARD COMMUNICATIONS

Right to Know

29 CFR 1910.1200



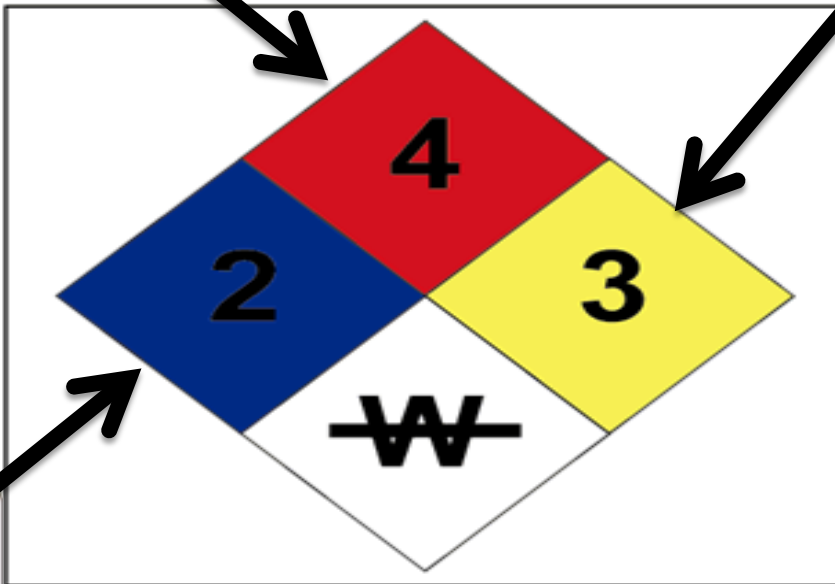
(red)  
Fire hazard

Flash points:  
4 Below 73 F°  
3 Below 100 F°  
2 Above 100 F°, not exceeding 200 F°  
1 Above 200 F°  
0 Will not burn



(blue)  
Health hazard

4 Deadly  
3 Extreme danger  
2 Hazardous  
1 Slightly hazardous  
0 Normal material



(yellow)  
Reactivity

4 May detonate  
3 Shock and heat may detonate  
2 Violent chemical change  
1 Unstable if heated  
0 Stable



(white)  
Specific hazard

Oxidizer  
Acid  
Alkali  
Corrosive  
Use NO WATER  
Radioactive

OX  
ACID  
ALK  
COR  
  


# HMIS LABELING SYSTEM

## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

PRODUCT IDENTIFIER

<b>HEALTH</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>REACTIVITY</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	


SEE MATERIAL SAFETY DATA SHEET

PERSONAL PROTECTION INDEX					
<b>A</b>			<b>G</b>		
<b>B</b>			<b>H</b>		
<b>C</b>			<b>I</b>		
<b>D</b>			<b>J</b>		
<b>E</b>			<b>K</b>		
<b>F</b>			<b>X</b>	Consult your supervisor or S.O.P. for "SPECIAL" handling directions	
<b>A</b>		<b>n</b>		<b>p</b>	
Safety Glasses		Splash Goggles		Boots	<b>q</b>
					<b>r</b>
					Synthetic Apron
					<b>s</b>
					Full Suit
<b>t</b>		<b>u</b>		<b>w</b>	
Dust Respirator		Vapor Respirator		Full Face Respirator	<b>y</b>
					<b>z</b>
					Airline Hood or Mask
					<b>Additional Information</b>

# NEW MANUFACTURER CHEMICAL LABEL










Hazard  
Communication

**SAMPLE LABEL**

<p>CODE _____ Product Name _____</p>	}	<p><b>Product Identifier</b></p>	<p><b>Hazard Pictograms</b></p> 
<p>Company Name _____ Street Address _____ City _____ State _____ Postal Code _____ Country _____ Emergency Phone Number _____</p>	}	<p><b>Supplier Identification</b></p>	<p><b>Signal Word</b> <b>Danger</b></p>
<p>Keep container tightly closed. Store in a cool, well-ventilated place that is locked. Keep away from heat/sparks/open flame. No smoking. Only use non-sparking tools. Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Ground and bond container and receiving equipment. Do not breathe vapors. Wear protective gloves. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Dispose of in accordance with local, regional, national, international regulations as specified.</p> <p><b>In Case of Fire:</b> use dry chemical (BC) or Carbon Dioxide (CO<sub>2</sub>) fire extinguisher to extinguish.</p> <p><b>First Aid</b> If exposed call Poison Center. If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.</p>	}	<p><b>Precautionary Statements</b></p>	<p><b>Hazard Statements</b></p> <p>Highly flammable liquid and vapor. May cause liver and kidney damage.</p>
			<p><b>Supplemental Information</b></p> <p><b>Directions for Use</b></p> <p>_____ _____ _____</p> <p>Fill weight: _____ Lot Number: _____ Gross weight: _____ Fill Date: _____ Expiration Date: _____</p>

# HAZARD COMMUNICATION STANDARD PICTOGRAMS

## HCS Pictograms and Hazards

<b>Health Hazard</b> 	<b>Flame</b> 	<b>Exclamation Mark</b> 
<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>	<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>	<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>
<b>Gas Cylinder</b> 	<b>Corrosion</b> 	<b>Exploding Bomb</b> 
<ul style="list-style-type: none"> <li>• Gases under Pressure</li> </ul>	<ul style="list-style-type: none"> <li>• Skin Corrosion/ burns</li> <li>• Eye Damage</li> <li>• Corrosive to Metals</li> </ul>	<ul style="list-style-type: none"> <li>• Explosives</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>
<b>Flame over Circle</b> 	<b>Environment (Non Mandatory)</b> 	<b>Skull and Crossbones</b> 
<ul style="list-style-type: none"> <li>• Oxidizers</li> </ul>	<ul style="list-style-type: none"> <li>• Aquatic Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>• Acute Toxicity (fatal or toxic)</li> </ul>

# SAFETY DATA SHEETS

Section 1: Identification – includes product identifier; manufacturer or distributor name, address, phone number; emergency phone number; recommended use; restrictions on use

Section 2: Hazard(s) identification – includes all hazards regarding the chemical; required label elements.

Section 3: Composition/information on ingredients – includes information on chemical ingredients; trade secret claims.

# SAFETY DATA SHEETS

Section 4: First Aid measures – including important symptoms/effects, acute, delayed; required treatment.

Section 5: Fire-fighting measures – lists suitable extinguishing techniques, equipment; chemical hazards from fire.

Section 6: Accidental release measures – lists emergency procedures; protective equipment; proper methods of containment and cleanup

# SAFETY DATA SHEETS (CONT.)

Section 7: Handling & Storage – precautions for safe handling & storage, including incompatibilities.

Section 8 – Exposure controls/personal protection – lists OSHA PELs; TLVs; appropriate engineering controls; personal protective equipment.



# SAFETY DATA SHEETS (CONT.)

Section 9 – Physical & chemical properties – list chemicals characteristics.

Section 10 – Stability & Reactivity – lists chemical stability and possibility of hazardous reactions.

Section 11 – Toxicological information – routes of exposure; related symptoms, acute and chronic effects; numerical measures of toxicity

# SAFETY DATA SHEETS (CONT.)

Section 12 – Ecological\*

Section 13 – Disposal\*

Section 14 – Transportation\*

Section 15 – Regulatory Information\*

Section 16 – Other Information – date of preparation or last revision

QUESTIONS???