



# HAZARD CLASSIFICATION










# Hazard Classification-3 Levels- Grouping products with

- ▶ **Hazard Group** (Physical or Health)
- ▶ **Hazard Class** (eg. flammable, biohazard)
- ▶ **Hazard Categories** (1 to 4)



# Changes to Classification

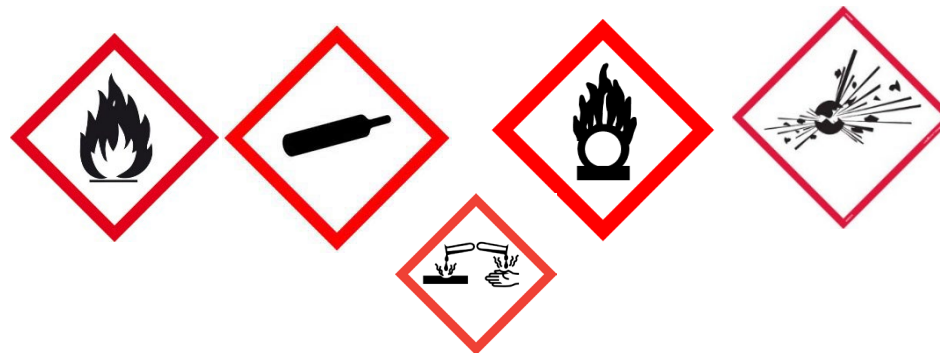
- ▶ Classification criteria has changed in WHMIS. Some new classes will be added.
- ▶ See the *WHMIS Hazard Classes Infosheet* for more information.

Hazard Symbols (to be used in pictograms for substances of the particular class)		
		
<b>FLAME OVER CIRCLE—USED FOR THESE CLASSES :</b>	<b>FLAME—USED FOR THESE CLASSES:</b>	<b>EXPLODING BOMB—USED FOR THESE CLASSES:</b>
<ul style="list-style-type: none"> <li>• Oxidizers</li> </ul>	<ul style="list-style-type: none"> <li>• Flammables</li> <li>• Self Reactives</li> <li>• Pyrophorics</li> <li>• Self-Heating</li> <li>• Emits Flammable Gas</li> <li>• Organic Peroxides</li> </ul>	<ul style="list-style-type: none"> <li>• Explosives</li> <li>• Self Reactives</li> <li>• Organic Peroxides</li> </ul>
		
<b>SKULL &amp; CROSSBONES—USED FOR THESE CLASSES:</b>	<b>CORROSION—USED FOR THESE CLASSES:</b>	<b>GAS CYLINDER—USED FOR THESE CLASSES:</b>
<ul style="list-style-type: none"> <li>• Acute toxicity (severe)</li> </ul>	<ul style="list-style-type: none"> <li>• Corrosives</li> </ul>	<ul style="list-style-type: none"> <li>• Gases Under Pressure</li> </ul>
		
<b>HEALTH HAZARD—USED FOR THESE CLASSES:</b>	<b>ENVIRONMENTAL HAZARD—USED FOR THESE CLASSES:</b>	<b>EXCLAMATION MARK—USED FOR THESE CLASSES:</b>
<ul style="list-style-type: none"> <li>• Carcinogen</li> <li>• Respiratory Sensitizer</li> <li>• Reproductive Toxicity</li> <li>• Target Organ Toxicity</li> <li>• Mutagenicity</li> <li>• Aspiration Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental Toxicity</li> </ul>	<ul style="list-style-type: none"> <li>• Irritant</li> <li>• Dermal Sensitizer</li> <li>• Acute toxicity (harmful)</li> <li>• Narcotic Effects</li> <li>• Respiratory Tract Irritation</li> </ul>

# Physical Hazard Classes

- ▶ Products put in this group based on their physical or chemical properties

- ▶ Flammability
- ▶ Reactivity
- ▶ Combustible Dusts
- ▶ Corrosive to Metals





# Health Hazards Classes

- ▶ Products put in this group based on their ability cause a health effect.
- ▶ Skin/eye or lung irritation
- ▶ Serious eye damage
- ▶ Cancer
- ▶ Birth defects
- ▶ Organ damage



# Compressed Gas Cylinder

- ▶ Compressed, liquefied, dissolved gases
- ▶ Gases under pressure can explode if heated or dropped
- ▶ E.g. **propane; fire extinguisher**



# Flame

- ▶ Flammable gases, aerosols, liquids solids, self heating, organic peroxides
- ▶ Capable of catching fire with heat source
- ▶ **E.g. Gasoline**



# Oxidizer-Flame Over Circle

- ▶ Materials that provide oxygen.
- ▶ Increase risk of fire if they come in contact with flammable or combustible materials.
- ▶ E.g. **Hydrogen Peroxide**





# Skull & Crossbones-Acute Toxicity

- ▶ Toxic-potentially fatal health effects
- ▶ May cause permanent damage if inhaled, swallowed, or on skin/eye contact – E.g. **graffiti removers, chlorine; rat poison**



# Exclamation Mark

- ▶ Irritants
- ▶ Skin/Eye/lung Irritation
- ▶ Allergic Reactions
- ▶ Drowsiness



# Health Hazard

- ▶ May cause serious health problems as a result of single or repeated exposure over time
- ▶ Cancer, birth defects, or sterility, liver or nerve damage
- ▶ E.g. **Lead, asbestos, solvents**



# Corrosive

- ▶ Materials that damage or eat through metals or skin/lungs.
- ▶ Products can cause severe irritation, skin burns and eye damage
- ▶ E.g. **bowl cleaners, floor strippers, laundry detergents**



# Exploding Bomb- Explosive

- ▶ Self reactive substances and mixtures
- ▶ May explode or produce toxic gas when dropped, exposed to water or other substances or improperly stored- **e.g. Organic Peroxides**





# Biohazardous/Infectious Materials

- ▶ Only pictogram that is carried over from the old WHMIS
- ▶ Potential to cause disease in people
- ▶ Eg. Blood, viruses

