



HAZARD CLASSIFICATION

WHMIS Symbols:

Workplace Hazardous Materials Information System

- usually, used for materials that might be harmful at WORK



Compressed gas



Dangerously reactive material



Material causing health concern



Flammable and combustible material



Biohazardous infectious material



Oxidizing material



Materials causing immediate and serious toxic effect



Corrosive material

OLD AND OUTDATED!!!









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

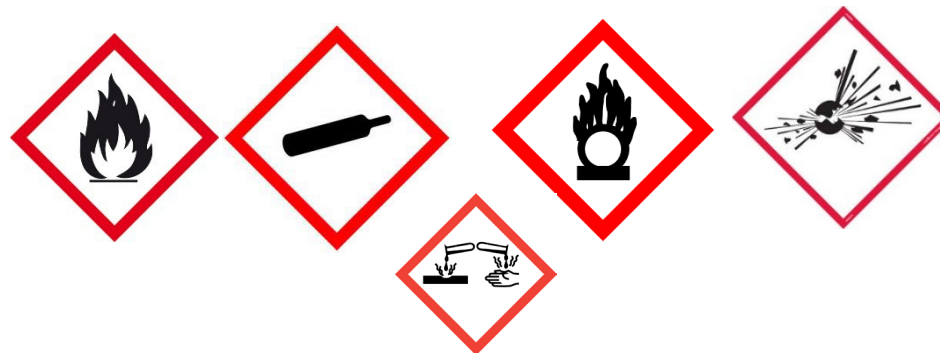
- ▶ Classification criteria has changed in WHMIS. Some new classes will be added.
- ▶ See the *WHMIS Hazard Classes Infosheet* for more information.

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

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

