


















## Prevent water pollution caused by incidents

Putting regulations on the laboratories to minimizing release of hazardous chemicals and materials. Examples of these regulations:

Symbol	Class Description	Symbol means that the material:
	Compressed Gas (Class A)	<ul style="list-style-type: none"> <li>poses an explosion danger because the gas is being held in a cylinder under pressure</li> <li>may cause its container to explode if heated</li> <li>may cause its container to explode if dropped</li> </ul>
	Combustible and Flammable Material (Class B)	<ul style="list-style-type: none"> <li>is one that will burn and is consequently a fire hazard (i.e., is combustible)</li> <li>may catch fire at relatively low temperatures (i.e., is flammable)</li> <li>may ignite spontaneously in air or release a flammable gas on contact with water</li> </ul>
	Oxidizing Material (Class C)	<ul style="list-style-type: none"> <li>may react violently or cause an explosion when it comes into contact with combustible materials</li> <li>may burn skin and eyes upon contact</li> </ul>
	Poisonous Material: Immediate Toxic Effects (Class D1)	<ul style="list-style-type: none"> <li>is a potentially fatal poisoning substance</li> <li>may be immediately fatal or cause permanent damage if it is inhaled or swallowed or enters the body through skin contact</li> </ul>
	Poisonous Material: Other Toxic Effects (Class D2)	<ul style="list-style-type: none"> <li>is a poisonous substance that is not immediately hazardous to health</li> <li>may cause death or permanent damage as a result of repeated exposure over time (e.g., cancer, birth defects or sterility)</li> <li>may be an irritant</li> </ul>
	Biohazardous Infectious Material (Class D3)	<ul style="list-style-type: none"> <li>may cause a serious disease resulting in illness or death</li> <li>may produce a toxin that is harmful to humans</li> </ul>
	Corrosive Material (Class E)	<ul style="list-style-type: none"> <li>causes severe eye and skin irritation upon contact</li> <li>causes severe tissue damage with prolonged contact</li> <li>may be harmful if inhaled</li> </ul>
	Dangerously Reactive Material (Class F)	<ul style="list-style-type: none"> <li>is very unstable</li> <li>may react with water to release a toxic or flammable gas</li> <li>may explode as a result of shock, friction, or increase in temperature</li> <li>may explode if heated in a closed container</li> </ul>

## HCS Pictograms and Hazards

Health Hazard	Flame	Exclamation Mark
		
<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</li> <li>• Narcotic Effects</li> <li>• Respiratory Tract Irritant</li> <li>• Hazardous to Ozone Layer (Non-Mandatory)</li> </ul>
Gas Cylinder	Corrosion	Exploding Bomb
		
<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>
Flame Over Circle	Environment (Non-Mandatory)	Skull and Crossbones
		
<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>