



#### Health Hazards Classification - Appendix A

Acute Toxicity – Contact by skin or ingestion produces adverse effects within 24 hrs , or 4 hrs by inhalation Can be one or more doses	Skin Corrosion – irreversible damage to skin after up to 4 hrs of contact Skin Irritation – reversible damage to skin after up to 4 hrs of contact	Serious eye damage - produces irreversible eye tissue damage in the eye within 21 of contact Eye Irritation - production of reversible changes in the eye within 21 days of contact
Respiratory Sensitizer – induces hypersensitivity after inhalation Skin Sensitizer – induces allergic reaction after contact	<b>Carcinogen</b> - induces or increases cancer incidence in the organism	Mutagen – affects the cells genetic material producing abnormal development of an organism
<b>Reproductive- Toxicity -</b> adverse effects on sexual function and fertility in adult males and females and even offspring development	Specific Target Organ Toxicity – Single Exposure One exposure damages or affects target organs to which the material is more attracted or compatible to.	Specific Target Organ Toxicity – Repeated Exposure Same as prior category but requiring multiple doses o exposures
Aspiration Hazard – damage caused by entry of a liquid or solid directly through the oral or nasal cavity, or into the lower respiratory system		





# Physical Hazards Classification Appendix B

Flammable Gases– gas that burns at a given temperature and pressure	Flammable Aerosols– contained under pressure, discharges particles in suspension, or as a foam, paste, powder, liquid or gas	Flammable Liquids - Any liquid with a flash point of 93 degrees C (199.4 F) or less.	Flammable Solids - easily combustible through friction
Gases under pressure contained in a receptacle at a given temperature and pressure	<b>Oxidizing Gases</b> – cause or contribute combustion by yielding oxygen	Oxidizing Liquids cause or contribute combustion by yielding oxygen	Oxidizing Solids cause or contribute combustion by yielding oxygen
<b>Explosives</b> – can spontaneously generate gases, and temperature capable of destruction	Self reactive –thermally unstable, can decompose exothermically even without air	<b>Pyrophoric Liquids</b> – liable to ignite within five minutes after contact with air	<b>Pyrophoric Solids -</b> liable to ignite within five minutes after contact with air
Spontaneous Heating - liable to self heat without contribution form external energy	Emits Flammable Gas- upon contact with water ignites spontaneously generating flammable gases	Organic Peroxides – tend to rapid thermally unstable decomposition	Corrosive to metals - contact with metals will harm or destroy them





## GHS Pictograms

Exploding bomb	Skull and Crossbones	Flame
Explosives; Self Reactive; Organic Peroxides	Acute toxicity (severe)	Flammables; Pyrophorics; Self-Heating; Emits Flammable Gas; Self Reactive; • Organic Peroxides
Gas Cylinder	Health Hazard	Flame over circle
Gases under pressure	Carcinogen; Mutagenicity; Reproductive Toxicity; Respiratory Sensitizer; Target Organ Toxicity; Aspiration Toxicity	Oxidizers
Corrosion	Exclamation mark	Environmental
Corrosives	Irritant; Skin Sensitizer; Acute Toxicity (harmful); Narcotic effects; Respiratory Tract Irritant; Hazardous to Ozone Layer	Aquatic Toxicity (OSHA did not propose this pictogram)



## Safety Data Sheet Content

1. Identification

Pennsylvania Technical

Assistance Program

- 2. Hazard (s) identification
- 3. Composition/ information on ingredients
- 4. First-aid measures
- 5. Fire-fighting measures
- 6. Accidental release measures
- 7. Handling and storage
- 8. Exposure control/ personal protection
- 9. Physical and chemical properties
- 10. Stability and reactivity
- 11. Toxicological information
- 12. Ecological information
- 13. Disposal considerations
- 14. Transport information
- 15. Regulatory information
- 16. Other information

Not under OSHA jurisdiction

and 16 be mandatory

**OSHA** proposes sections 1-11





## Preparing the label

10 Health Hazard

Classifications

Appendix A

16 Physical Hazard Classifications

Appendix B

Designation of Categories of Hazard



**Determines Label Elements** 

Pictogram – Hazard Statement – Signal Word - Precautionary Statements

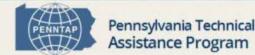
Once a chemical has been classified, the label preparer can obtain the relevant harmonized information from Appendix C for the label





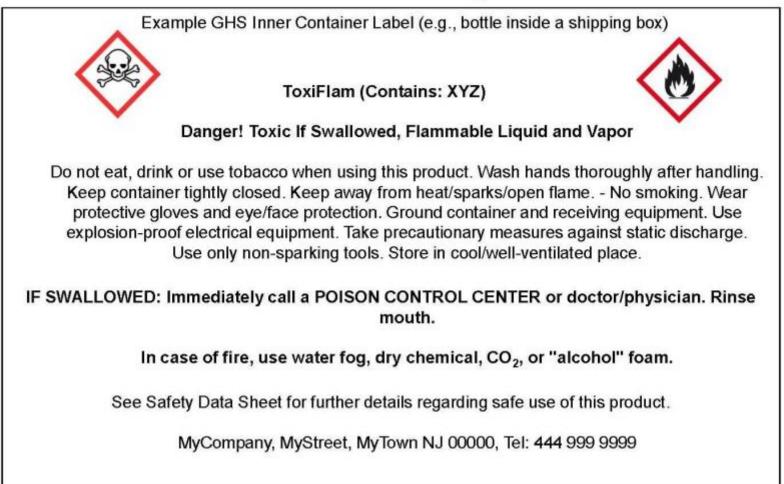
Appendix C

		C.4.1 ACUTE TOXICIT (CLASSIFIED IN ACCORDANC)		0
Hazard category	Signal word			Pictogram Skull and crossbones
1	Danger	Fatal if swallowed		
2	Danger	Fatal if swallowed		$\sim$
Precautionary statements Prevention		Response	Storage	Disposal
Wash thoroughly afted Manufacturer, imported to specify parts of the boo after handling. Do not eat, drink or smo this product.	er, or distributor dy to be washed	If swallowed: Immediately call a poison center or doctor/physician. Specific treatment (see on this label) Reference to supplemental first aid instruction. - if immediate administration of antidote is required.	Store locked up.	Dispose of contents/container to in accordance with local/regional/national/internation al regulations (to be specified).
		Rinse mouth.		

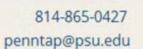




#### Label Example









#### Label Example

