



# Health Hazards Classification - Appendix A

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










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# Physical Hazards Classification Appendix B

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

# GHS Pictograms

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





# Safety Data Sheet Content

1. Identification
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

OSHA proposes sections 1-11  
and 16 be mandatory

Not under OSHA  
jurisdiction



# 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 TOXICITY – ORAL (CLASSIFIED IN ACCORDANCE with appendix A.1)			<b>Pictogram</b> Skull and crossbones 
Hazard category	Signal word	Hazard statement	
1	Danger	Fatal if swallowed	
2	Danger	Fatal if swallowed	
Precautionary statements			
Prevention	Response	Storage	Disposal
<b>Wash ...thoroughly after handling.</b> ... Manufacturer, importer, or distributor to specify parts of the body to be washed after handling.  <b>Do not eat, drink or smoke when using this product.</b>	<b>If swallowed: Immediately call a poison center or doctor/physician.</b>  <b>Specific treatment (see ... on this label)</b> ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i>  <b>Rinse mouth.</b>	<b>Store locked up.</b>	<b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified).



# Label Example

Example GHS Inner Container Label (e.g., bottle inside a shipping box)



**ToxiFlam (Contains: XYZ)**



**Danger! Toxic If Swallowed, Flammable Liquid and Vapor**

Do not eat, drink or use tobacco when using this product. Wash hands thoroughly after handling.  
Keep container tightly closed. Keep away from heat/sparks/open flame. - No smoking. Wear  
protective gloves and eye/face protection. Ground container and receiving equipment. Use  
explosion-proof electrical equipment. Take precautionary measures against static discharge.  
Use only non-sparking tools. Store in cool/well-ventilated place.

**IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse  
mouth.**

**In case of fire, use water fog, dry chemical, CO<sub>2</sub>, or "alcohol" foam.**

See Safety Data Sheet for further details regarding safe use of this product.

**MyCompany, MyStreet, MyTown NJ 00000, Tel: 444 999 9999**





# Label Example

