

# Health Hazards Classification - Appendix A

<p><b>Acute Toxicity –</b> Contact by skin or ingestion produces adverse effects within 24 hrs , or 4 hrs by inhalation</p> <p>Can be one or more doses</p>	<p><b>Skin Corrosion –</b> irreversible damage to skin after up to 4 hrs of contact</p> <p><b>Skin Irritation –</b> reversible damage to skin after up to 4 hrs of contact</p>	<p><b>Serious eye damage -</b> produces irreversible eye tissue damage in the eye within 21 of contact</p> <p><b>Eye Irritation -</b> production of reversible changes in the eye within 21 days of contact</p>
<p><b>Respiratory Sensitizer –</b> induces hypersensitivity after inhalation</p> <p><b>Skin Sensitizer –</b> induces allergic reaction after contact</p>	<p><b>Carcinogen -</b> induces or increases cancer incidence in the organism</p>	<p><b>Mutagen –</b> affects the cells genetic material producing abnormal development of an organism</p>
<p><b>Reproductive- Toxicity -</b> adverse effects on sexual function and fertility in adult males and females and even offspring development</p>	<p><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.</p>	<p><b>Specific Target Organ Toxicity – Repeated Exposure</b> Same as prior category but requiring multiple doses o exposures</p>
<p><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</p>		

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# Physical Hazards Classification Appendix B

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

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# 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>

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# 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)

**Pictogram**

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
<p><b>Wash ...thoroughly after handling.</b> ... Manufacturer, importer, or distributor to specify parts of the body to be washed after handling.</p> <p><b>Do not eat, drink or smoke when using this product.</b></p>	<p><b>If swallowed: Immediately call a poison center or doctor/physician.</b></p> <p><b>Specific treatment (see ... on this label)</b> ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i></p> <p><b>Rinse mouth.</b></p>	<p><b>Store locked up.</b></p>	<p><b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified).</p>

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# 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.

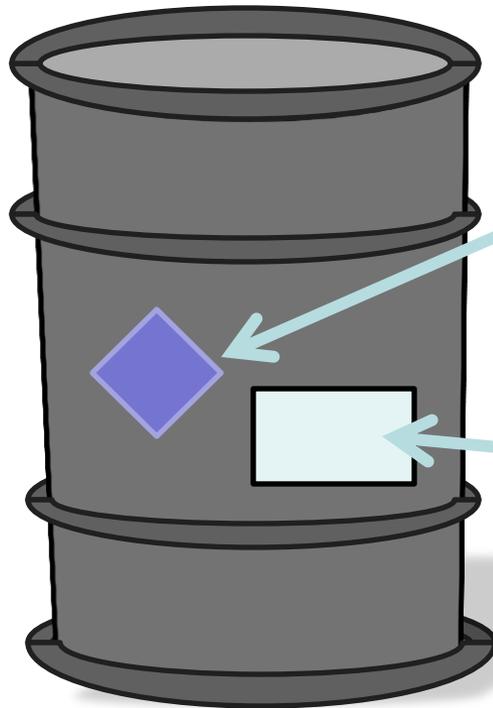
**IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse mouth.**

**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



**Paint (Contains: XYZ)**  
**Danger! Toxic If Swallowed,**  
**Flammable Liquid and Vapor**

**Paint PB**  
**UN 1234**



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.**

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