### Health Hazards Classification - Appendix A

| Acute Toxicity – Contact by skin or ingestion produces adverse effects within 24 hrs, or 4 hrs by inhalation | 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 |
| --- | --- | --- |
| Can be one or more doses | **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 |
| **Respiratory Sensitizer** – induces hypersensitivity after inhalation  
**Skin Sensitizer** – induces allergic reaction after contact | **Carcinogen** - induces or increases cancer incidence in the organism | **Mutagen** – affects the cells genetic material producing abnormal development of an organism |
| **Reproductive Toxicity** - 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 or 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 | | |

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## Physical Hazards Classification

**Appendix B**

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

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<table>
<thead>
<tr>
<th>GHS Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exploding bomb</strong></td>
</tr>
<tr>
<td>Explosives; Self Reactive; Organic Peroxides</td>
</tr>
<tr>
<td><strong>Gas Cylinder</strong></td>
</tr>
<tr>
<td>Gases under pressure</td>
</tr>
<tr>
<td><strong>Corrosion</strong></td>
</tr>
<tr>
<td>Corrosives</td>
</tr>
</tbody>
</table>

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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

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Prepating the label

<table>
<thead>
<tr>
<th>10 Health Hazard Classifications</th>
<th>16 Physical Hazard Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix A</td>
<td>Appendix B</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Hazard category</th>
<th>Signal word</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Danger</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>2</td>
<td>Danger</td>
<td>Fatal if swallowed</td>
</tr>
</tbody>
</table>

### Precautionary statements

**Prevention**

Wash ...thoroughly after handling. ... Manufacturer, importer, or distributor to specify parts of the body to be washed after handling.

Do not eat, drink or smoke when using this product.

**Response**

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.*

Rinse mouth.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/container to...

... in accordance with local/regional/national/international regulations (to be specified).

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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, CO₂, 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

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**Label Example**

<table>
<thead>
<tr>
<th>Paint (Contains: XYZ)</th>
<th>Paint PB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger! Toxic If Swallowed, Flammable Liquid and Vapor</td>
<td>UN 1234</td>
</tr>
</tbody>
</table>

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, CO₂, or "alcohol" foam. See Safety Data Sheet for further details regarding safe use of this product.

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