Our safety evaluations, reports and recommendations are made solely to assist your organization in reducing hazards and the potential of hazards and accidents. These recommendations were developed from conditions observed and information provided at the time of our visit. They do not attempt to identify every possible loss potential, hazard or risk, nor do they guarantee that workplace accidents will be prevented. These safety evaluations, reports and recommendations are not a substitute for ongoing, well-researched internal safety and risk management programs. This report does not warrant that the property inspected and its operations are compliant with any law, rule or regulation.

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Acute Toxicity

Adverse effects occurring after:
- Single exposure of a substance through oral ingestion or skin contact
- Multiple doses within a 24 hour period through oral ingestion or skin contact
- Inhalation exposure to a substance for 4 hours
Corrosive Material

Materials that can attack and chemically destroy exposed body tissues.
- Skin Corrosion/Burns
- Eye Damage
- Corrosive to Metals
- Most corrosives are either acids or bases.
- Examples: hydrochloric acid, sulfuric acid, nitric acid, chromic acid, acetic acid and hydrofluoric acid
Environmental Hazard

Adverse affects to the environment.
- Acute hazards to the aquatic environment
- Chronic hazards to the aquatic environment
Unstable Explosives

Explosive substances and mixtures that produce an explosive or pyrotechnic effect.

Self-Reactives
- Thermally unstable substance likely to put off high heat as it breaks down.

Organic Peroxides
- Ex: Epoxy resins, glass reinforced plastics, acetone peroxide, methyl ethyl ketone peroxide
Flammables

Gases, aerosols, liquids, solids that easily will easily burn or ignite.

Ex:
**Category 1:** Acetylene
**Category 2:** Gasoline
**Category 3:** Diesel fuel
**Category 4:** Mineral Oil

<table>
<thead>
<tr>
<th>Table 3: GHS Label Elements for Flammable (and Combustible) Liquids</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Category 1</strong></td>
</tr>
<tr>
<td>Symbol</td>
</tr>
<tr>
<td>Signal Word</td>
</tr>
<tr>
<td>Hazard Statement</td>
</tr>
</tbody>
</table>
Gases Under Pressure

Gases under pressure are compressed gases, liquefied gases, dissolved gases and refrigerated liquefied gases.

- Examples: welding gases such as oxygen, acetylene, and argon

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Health Hazard

Substance that has acute or chronic affects to humans.

- Respiratory sensitization
- Germ cell mutagenicity
- Carcinogenicity
- Reproductive toxicity
- Specific target organ toxicity following single exposure
- Specific target organ toxicity following repeated exposure
- Aspiration hazard
Oxidizing Gases and Liquids

Gas, liquid, or solid while in itself is not necessarily combustible, combined with oxygen causes or contributes to the combustion of other materials.

- Example: muriatic acid, chlorine, battery acid
Irritants

**Skin Corrosion:**
- Irreversible damage to the skin following exposure of a substance for up to 4 hours. Examples: ulcers, bleeding, bloody scabs, etc.

**Skin Irritation:**
- Reversible damage to the skin following exposure of a substance for up to 4 hours.

**Eye Irritant:**
- Non permanent changes in the eye after contact

**Serious Eye Damage:**
- Permanent damage to eye tissue or serious physical decay of vision.

**Respiratory/Skin Sensitizer:**
- Will lead to hypersensitivity of the respiratory system following inhalation
- Will lead to allergic reaction following skin contact