Material Safety Data Sheet

This Material Safety Data Sheet conforms to the requirements of ANSI z400.1. This MSDS complies with 29 CFR 1910.1200 (Hazard Communication Standard) Read this MSDS before handling & disposing of this product.

Section 1: Material Identification and Company Identification

Product Identity: 8% Hydrogen Peroxide
Distributed By: American Development Corporation
Address: 821 William D. Jones Blvd.
City/State: Fayetteville TN  37334
Phone: 888-542-8561
Chem-Tel 800-255-3924

Section 2: Hazardous Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS NO.</th>
<th>Concentration</th>
<th>Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>8%</td>
<td>Oxidizer</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>92%</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Section 3: Hazards Identification

Primary routes of exposure: Skin or eye contact, inhalation. Harmful if swallowed.

Potential Health Effects:

**Eyes:** Can cause severe burns and permanent damage to eyes.

**Skin:** Can cause severe burns with deep ulceration burns.

**Ingestion:** Can cause severe irritation and/or burns to the entire gastrointestinal tract, characterized by nausea, abdominal pain and possible diarrhea.

**Inhalation:** Mist can cause irritation to lungs.

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Section 4: First Aid Measures

**Eye Contact:** Immediately flush with large amounts of water for at least 15 minutes. Seek medical attention immediately.

**Skin Contact:** Immediately wash the affected area with large amounts of water while removing contaminated clothing. Call a physician.

**Ingestion:** If person is conscious give large amounts of water to drink. Do not induce vomiting. Seek medical attention immediately.

**Inhalation:** Move to fresh air. Support respiration. Call a physician.

**Notes to Physician:** Hydrogen peroxide at this concentration is a oxidant. Skin contact may be irritating; eye contact may be severely irritating. Treatment is by dilution and is symptomatic and supportive.

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Section 5: Fire Fighting Measures:

**Extinguishing Media:** Flood with water. On decomposition releases oxygen which may intensify fire.

**Flash Point, Deg F:** Not Flammable

**NFPA Rating:**

- Health: 1
- Fire: 0
- Reactivity: 1
- Hazard: Oxidizer

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Section 6: Accidental Release Measures:

**Release Notes:** Wear recommended PPE. Dilute with a large volume of water and hold in a diked area until hydrogen peroxide decomposes. Decomposition may be aided by adding sodium metabisulfite or sodium sulfite after diluting to approximately 5%. Combustible materials exposed to hydrogen peroxide should be immediately rinsed with large amounts of water. Residual hydrogen peroxide that is allowed to dry on organic materials such as paper fabrics, leather, wood etc. can cause the material to ignite.

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Section 7: Handling and Storage:

**Handling:** Wear goggles and a face shield, impervious clothing such as rubber, PVC, etc. and rubber or neoprene gloves and shoes. Avoid cotton, wool and leather.

**Storage:** Avoid excessive heat and product contamination. Store in vented container. Do not store drums on wooden pallets. Empty containers should be triple rinsed. Handling utensils should only be made of glass, stainless steel, aluminum or plastic.

Section 8: Exposure Controls/Personal Protection

**Control Measures:** Ventilation should be provided to minimize the release of vapors and mists into the work environment. Spills should be minimized or confined to prevent release into the work area. Remove contaminated clothing immediately and wash thoroughly before reuse.

**Recommended Personal Protective Equipment:**

**Respirator:** If concentrations in excess of 10ppm are expected, use NIOSH/DHHS approved SCBA. DO NOT use any form of air-purifying respirator or filtering face piece (common dust mask), especially those containing oxidizable sorbants such as activated carbon.

**Eyes:** Chemical goggles, face shield

**Gloves:** Neoprene, PVC or rubber gloves. Do not use cotton or wool or leather.

**Clothing:** Impervious clothing such as an approved splash suit made of SBR rubber, PVC, or specialized HazMat protective suit. Boots should be made of NBR, PVC, polyurethane or neoprene.

**Other protective measures:** Emergency eye wash and safety showers for first aid should be available near work area.

Section 9: Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>n/a</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>216°F</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>23°F</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.06</td>
</tr>
<tr>
<td>Density (lbs/gal)</td>
<td>8.80</td>
</tr>
<tr>
<td>pH</td>
<td>2.5 - 3.5</td>
</tr>
<tr>
<td>% Volatile</td>
<td>100%</td>
</tr>
<tr>
<td>Solubility</td>
<td>100%</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Non-combustible</td>
</tr>
</tbody>
</table>

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Section 10: Stability and Reactivity

Stability: Stable under normal conditions
Polymerization: Will not occur
Conditions to avoid: Avoid contact with leather, wool, acids, organic materials.
Excessive heat.

Incompatible materials: Reducing agents, wood, paper and other combustibles, iron, and other heavy metals, copper alloys and caustic.

Hazardous decomposition products: Oxygen which supports combustion.

Section 11: Toxicological Information

Medical conditions aggravated by exposure:

Target Organs:
Corrosive to all body tissues by all routes of exposure.
Primary routes of exposure: eyes, skin, mucous membranes, lungs.

Section 12: Ecological Information

Environmental Fate: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Half life in freshwater ranged from 8 hours to 20 days, in air from 10-20 hrs. And in soils from minutes to hours depending upon microbiological activity.

Section 13: Disposal Considerations

An acceptable method of disposal is to dilute with a large amount of water and allow the hydrogen peroxide to decompose followed by discharge into a suitable treatment system in accordance with all regulatory agencies. The appropriate regulatory agencies should be contacted prior to disposal.

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Section 14: Transportation Information

<table>
<thead>
<tr>
<th>D.O.T. Proper Shipping Name:</th>
<th>Hydrogen peroxide, aqueous solutions with not less than 8% but less than 20% hydrogen peroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.O.T. Hazard Class:</td>
<td>5.1</td>
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<tr>
<td>UN number:</td>
<td>2984</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
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<tr>
<td>D.O.T. Labels:</td>
<td>Primary: Oxidizer Subsidiary: Oxidizer 5.1</td>
</tr>
<tr>
<td>D.O.T. Placards:</td>
<td>Oxidizer 5.1</td>
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</table>

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Section 15: Regulatory Information

<table>
<thead>
<tr>
<th>TSCA Inventory Status:</th>
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<tbody>
<tr>
<td>SARA - 313 Listed Chemicals:</td>
<td>No</td>
</tr>
<tr>
<td>RCRA Hazardous Waste Number:</td>
<td>No</td>
</tr>
<tr>
<td>CERCLA:</td>
<td>Yes</td>
</tr>
<tr>
<td>Reportable Quantity:</td>
<td>1,000 pounds</td>
</tr>
</tbody>
</table>

Section 16: Other Information

CERCLA Comprehensive Environmental Response, Compensation and Liability Act of 1980
IARC International Agency for Research on Cancer
MSHA Mine Safety and Health Administration
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration
PEL-C OSHA Permissible Exposure Limit-OSHA Ceiling Exposure Limit
RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act of 1986
TLV-TWA Threshold Limit Value - Time Weighted Average
TSCA Toxic Substances Control Act

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