1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: HERCULES SIZZLE
Intended Use: Deliming solution

Manufacturer: Hercules Chemical Company, Inc.
111 South Street
Passaic, New Jersey 07055-7398

Information Telephone: (800) 221-9330
Internet: http://www.herchem.com

Emergency Phone: CHEMTREC: (800) 424-9300

MSDS Date of Preparation: 10/01/2007

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Light yellow corrosive liquid. Ingestion causes severe burns to mouth, esophagus and stomach. If ingested, do not induce vomiting, call a doctor immediately. Vapors are extremely irritating. Corrosive to most metals with evolution of flammable hydrogen gas. Do not mix with strong alkalis such as sodium or potassium hydroxide.

Potential Health Effects.
Inhalation: Fumes from product will cause injury to respiratory tract. Severe exposure can cause lung damage. Call a doctor immediately.
Ingestion: Severe damage to internal organs (esophagus & pylorus) will occur if swallowed in large quantities. Call a doctor immediately.
Eye: Will cause severe eye burn.
Skin: Prolonged contact will cause skin burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Wt/Wt %</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Chloride</td>
<td>7647-01-0</td>
<td>30-35</td>
<td>5 ppm</td>
<td>5 ppm</td>
<td>50 ppm IDLH</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>65-70</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

HMIS Hazard Rating: 3 0 2 H
4. EMERGENCY AND FIRST AID PROCEDURES.

Eye: Immediately flush victim’s eyes with large quantities of water, for 15 minutes, holding the eyelids apart. Get medical attention.

Skin: Wash affected area with soap and water. Remove contaminated clothing. If burn/rash appears, consult with a doctor.

Ingestion: DO NOT INDUCE VOMITING. If conscious, dilute by giving large quantities of water or milk. Get medical attention immediately.

Inhalation: Call a physician. Remove to fresh air. If not breathing, give artificial respiration. Give oxygen if the victim has difficult breathing.

Note: Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flashpoint: Not flammable
Flammable Limits: N/A
Autoignition Temperature: N/A
Extinguishing Media: Water fog, Foam, Dry Chemical, Carbon Dioxide
Unusual Fire or Explosion Hazards: Contact with common metals may produce flammable, and potentially explosive hydrogen gas.
Special Fire-Fighting Instructions: Firefighters and others who might be exposed to products of combustion, should wear (NIOSH approved) positive pressure self-contained breathing apparatus and full protective clothing. Neutralize with soda ash or slaked lime


6. ACCIDENTAL RELEASE MEASURES

Spills/Leak Control: Evacuate area, keep upwind until gas has dispersed. If necessary to enter the spill area, wear approved full face respirators with acid cartridges. Wear acid resistant clothing. For large spills, wear self contained breathing apparatus and full protective clothing including shoes. Build a dike around the spill. Neutralize with Lime or Soda Ash. Clean and dispose in accordance with federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Keep containers tightly closed and away from heat. Protect containers from damage.
Storage: Store in original containers and away from heat. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL 5 ppm Ceiling, ACGIH TLV 5 ppm Ceiling
Respiratory Protection: Full face respirator with HCL fumes cartridges for response to small spills. Self contained breathing apparatus.
Engineering Controls: Use with general or local exhaust ventilation.
Skin Protection: Wear Rubber or plastic gloves.
Eye Protection: Wear Chemical Safety goggles or Safety glasses and a face shield.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance And Odor</td>
<td>Light Yellow liquid with a pungent acid odor.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>181°F</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-51°F</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>35</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt; 1.27</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>(Butyl Acetate=1) &gt; 1.0</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Volatile Components</td>
<td>100%</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.14 to 1.16</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>below 1.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability: Stable.
Conditions to avoid: Open flames, sparks, and ignition sources.
Incompatibility: Strong oxidizers such as liquid chlorine, sodium or calcium hypochlorite, and pure oxygen.
Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur and other decomposition products may form from incomplete combustion.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:
Oral LD50—900 mg/Kg rabbit
LC50—3124 ppm/ihr Rat
Inhalation: Corrosive and irritating to respiratory tract. Results in coughing, choking and inflammation of the respiratory tract.
Eye: Causes severe irritation and painful burns to the eyes and eye lids. Failure to irrigate the eyes immediately with copious amounts of water, could cause visual impairment and/or total loss of vision
Skin: Will cause severe burns unless washed off immediately. Repeated skin contact may lead to dermatitis.
Ingestion: Corrosive to mouth and stomach. Do not induce vomiting. Dilute with large amount of water.
Sensitization: None.
Chronic: Prolonged exposure to low level concentration of hydrochloric acid vapor may cause discoloration and erosion of teeth, bleeding of nose and gums, and ulcers of the nasal mucosa.
Carcinogenicity: Not a carcinogen
Mutagenicity: Not mutagenic.
Medical Conditions Aggravated by Exposure: It may also aggravate Asthma, bronchitis, emphysema, bronchial hyperactivity, skin allergies and eczema
Reproductive Toxicity: None
Acute Toxicity Values: Vapors can be fatal in enclosed areas without adequate ventilation.

12. ECOLOGICAL INFORMATION

Environmental Toxicity: This material is expected to be toxic to aquatic life.
Environmental Transport: Unknown.
Environmental Degradation: Not expected to biodegrade
Soil Absorption/Mobility: When released in the soil, it may leach into ground water.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State, and Local regulations.
14. TRANSPORT INFORMATION

DOT: Proper Shipping Name: Hydrochloric Acid, Solution
Hazard Class: 8
UN Number: 1789
Packing Group: II
RQ: 5000 lbs

15. REGULATORY INFORMATION

EPA Regulation:
TITLE 311/312 Hazard Classification
ACUTE: yes
CHRONIC: Yes
FIRE: No, REACTIVITY: No, PRESSURE: No
Extremely Hazardous substance. No
TSCA Inventory: All the components in this product are listed on the TSCA inventory.

WHMIS.
This MSDS has been prepared according to the hazard criteria of the controlled Products regulation (CPR). And the MSDS contains all of the information required by the CPR

16. OTHER INFORMATION

DISCLAIMER:
The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Hercules cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.