1. Chemical Product and Company Identification

Product Name ............................................. Oleyl Imidazoline
Product Description .................................... Surfactant

Chem International, Inc.
P.O. Box 5501
Greenville, SC  29606

Emergency Telephone Numbers
Transportation:
CHEMTREC  1-800-424-9300
(703-527-3387 Outside United States)
Information:
Chem International, Inc. – 864-458-7868

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Components</th>
<th>CAS#</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oleyl hydroxyethyl imidazoline</td>
<td>21652-27-7</td>
<td>60-100</td>
</tr>
<tr>
<td>Aminoethylethanolamine</td>
<td>111-41-1</td>
<td>1-5</td>
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</tbody>
</table>

3. Hazards Identification

Emergency Overview:
May be harmful if swallowed. Causes eye burns. Ingestion may cause gastrointestinal tract burns. Excessive inhalation exposure may cause burns to the respiratory tract causes skin burns.

Color: clear yellow-amber
Form: liquid
Odor: amine odor

Eye Contact:
This material can induce chemical burns on contact with human eyes.

Skin Contact:
This product will probably not be absorbed through human skin.

Inhalation:
Inhalation of this material will probably cause severe irritation to respiratory passages. No toxic effects are known to be associated with inhalation of this material.

Ingestion:
In humans, irritation or chemical burns of the mouth, pharynx, esophagus and stomach can develop following ingestion. Injury may be severe and cause death. May be harmful if swallowed.

Other:
Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.
4. First Aid Measures

**Eye Contact:**
Immediately flush with plenty of water for at least 15 minutes. Have eyes examined and treated by medical personnel.

**Skin Contact:**
Remove contaminated footwear and clothing while under a safety shower. Wash material off the skin with plenty of soap and water. Get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

**Ingestion:**
Do NOT induce vomiting. Give one or two glasses of water to drink and refer to medical personnel or take direction from either a physician or a poison control center. Never give anything by mouth to an unconscious person.

**Inhalation:**
Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

5. Fire Fighting Measures

**Flash Point:**  
≥ 200 °F (closed cup); ≥ 93.33 °C (closed cup)

**Auto ignition Temperature:**  
No data.

**Flammable Limits:**  
No data.

**Extinguishing Media:**
Water fog, alcohol foam, carbon dioxide, dry chemical.

**Special fire-fighting Protective Equipment:**
A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

**Fire and Explosion Hazards:**
None known.

6. Accidental Release Measures

**Personal Precautions:**
Refer to Section 8 for proper personal protective equipment.

**Spill Response Procedures:**
Contain spill. Soak up material with absorbent and shovel into a chemical waste container. Wash residue from spill area with water containing detergent and flush to a sewer serviced by a permitted wastewater treatment facility.

7. Handling and Storage

**Handling:**
Do not get in eyes. Do not get on skin. Do not breathe vapor, mists, and/or dusts from this material. Do not swallow.

**Storage:**
Store in original containers.
8. Exposure Controls/Personal Protection

**Engineering Controls:**
Provide adequate ventilation.

**Personal Protective Equipment:**
Eye: Chemical tight goggles and a full face shield.
Protective Clothing: Impervious gloves and apron.
Respiratory: Respiratory protection is not normally needed if controls are adequate.
Other: Eyewash station and safety shower in work area.

**Exposure Limits:**
No OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.
No ACGIH TLV assigned. Minimize exposure in accordance with good hygiene practice.

9. Physical and Chemical Properties

Color: Clear, yellow-amber
Form: Liquid
Odor: Amine odor
pH: 10.5 – 12.10% in water
Boiling Point (°F/°C): 375 °F, 190.56 °C
Flash Point (°F/°C): ≥ 200 °F, ≥ 93.33 °C
Auto Ignition Temperature (°F/°C): No data.
Flammable Limits: No data.
Explosive Properties: No data.
Oxidizing Properties: No data.
Specific Gravity: 0.9171
Solubility (water): No data.
Solubility (other): No data.
Partition Coefficient: No data.

10. Stability and Reactivity

**Conditions to Avoid:**
Stability: Stable under normal conditions.
Conditions to Avoid: None known.
Materials to Avoid: Strong acids. Oxidizing agents.
Hazardous Polymerization: Will not occur.

11. Toxicological Information

No available information.

12. Ecological Information

No available information.
13. Disposal Considerations

**Disposal Method:**
Disposal should be in accordance with local, state, or national legislation.

**Container Disposal:**
Empty container retains product residue. Observe all hazard precautions. Empty container retains potentially hazardous residue. Observe all hazard precautions. May contain corrosive material. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

14. Transport Information

**Proper Shipping Name:** Corrosive Liquid, Basic, Organic, n.o.s. (contains oleyl hydroyethyl imidazoline)
**Hazard Class:** 8
**UN Number:** UN3267
**Packing Group:** PG III

15. Regulatory Information

Compliant with EINECS/ELINCS/NLP (Europe), TSCA (USA), DSL (Canada), AICS (Australia), ENCS (Japan).

No 313-listed chemicals in this product.

**WHMIS Classification:** Class D, Division 2 – Toxic.
Class E – Corrosive Material (CPR62)

16. Other Information

**MSDS Revision Status**

<table>
<thead>
<tr>
<th>MSDS Date</th>
<th>November 18, 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Revision Date</td>
<td>January 30, 2012</td>
</tr>
<tr>
<td>Reason for Revision</td>
<td>Date revision only</td>
</tr>
</tbody>
</table>

**Hazardous Materials Information System (HMIS) Rating**

- Health: 3
- Reactivity: 0
- Flammability: 1