IDENTITY (As Used on Label and List)  ELKO ZIP

Section I

Manufacturer's Name
ELKHORN CHEMICAL CO., INC.
Address (Number, Street, City, State, and ZIP Code)
One Elko Lane, PO Box 80
Elkhorn, WI 53121

Emergency Telephone Number
414-723-2646

Telphone Number for Information
414-723-2646

Date Prepared
Revised, May, 1989

Signature of Preparer (optional)

Section II - Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrasodium Ethylenediamine</td>
<td>64-02-8</td>
<td>&gt;</td>
<td>N/D</td>
<td>N/A</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>tetra-acetate</td>
<td>64-02-8</td>
<td>&gt;</td>
<td>N/D</td>
<td>N/A</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Sodium Metasilicate</td>
<td>6834-92-0</td>
<td>&gt;</td>
<td>2mg/m³</td>
<td>N/A</td>
<td>&lt; 4</td>
</tr>
<tr>
<td>Amides, C8-18 &amp; C18 unsat'd bis</td>
<td>68155-07-7</td>
<td>&gt;</td>
<td>N/D</td>
<td>N/A</td>
<td>1-2</td>
</tr>
<tr>
<td>(Hydroxyethyl)</td>
<td>111-42-2</td>
<td>&gt;</td>
<td>3ppm 8 Hr.</td>
<td>N/A</td>
<td>.3-1</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>111-76-2</td>
<td>&gt;</td>
<td>25ppm, skin, 8 hr</td>
<td>N/A</td>
<td>&lt; 8</td>
</tr>
<tr>
<td>Ether</td>
<td>320-48-9</td>
<td>&gt;</td>
<td>N/D</td>
<td>N/A</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>

Section III — Physical/Chemical Characteristics

Boiling Point
200
Specific Gravity (H₂O = 1)
1.03

Vapor Pressure (mm Hg)
N/A
Melting Point
N/A

Vapor Density (AIR = 1)
N/A
Evaporation Rate
N/A

Solubility in Water
Complete

Appearance and Odor
Purple liquid

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)
None
Flammable Limits
N/A
LEL
UEL

Extinguishing Media
Will not burn

Special Fire Fighting Procedures
N/A

Unusual Fire and Explosion Hazards
N/A

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Section V — Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstable</td>
<td>N/A</td>
</tr>
<tr>
<td>Stable</td>
<td>X</td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)  N/A

Hazardous Decomposition or Byproducts  N/A

Hazardous Polymerization

<table>
<thead>
<tr>
<th>May Occur</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will Not Occur</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section VI — Health Hazard Data

Route(s) of Entry

<table>
<thead>
<tr>
<th>Inhalation?</th>
<th>Skin?</th>
<th>Ingestion?</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Health Hazards (Acute and Chronic)

Ethylene Glycol can cause irritation to throat and eyes.

Carcinogenicity: N/A

NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure

Irritation - Dizziness

Medical Conditions Generally Aggravated by Exposure

Dermatitis - Respiratory illness

Emergency & First Aid Procedures:

SKIN: Wash with soap & water. EYES: Flush thoroughly with water for at least 15 min.

Get medical attention. INHALATION: Remove to fresh air. INGESTION: Get medical attention.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Flush with water.

Waste Disposal Method

Flush with water.

Precautions to Be Taken in Handling and Storing

Good, normal hygiene practices

Other Precautions

Keep out of reach of children.

Section VIII — Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA approved respirator when exposed to very heavy concentrations for sustained periods of time.

Ventilation

<table>
<thead>
<tr>
<th>Local Exhaust</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical (General)

Protective Gloves

<table>
<thead>
<tr>
<th>Rubber gloves</th>
<th>Eye Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Goggles</td>
</tr>
</tbody>
</table>

Other Protective Clothing or Equipment

N/A

Work/Hygienic Practices

Good, normal hygiene practices

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