MATERIAL SAFETY DATA SHEET
Edwal Signal Shortstop Indicating Stop Bath Concentrate

SECTION I  PRODUCT IDENTIFICATION

Trade Name: Edwal Signal Shortstop Indicating Stop Bath Concentrate
Product Code(s): ED-SS-16
Manufacturer: Brandess/Kalt/Aetna
701 Corporate Woods Pkwy
Vernon Hills, Il 60061
847-821-4237
Emergency Phone #: Chemtrec 800-424-9300
Product Form: Liquid Solution
Synonyms: None

Date: 04/01/2002

SECTION II  HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>&lt;60%</td>
</tr>
</tbody>
</table>

SECTION III  PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (°F)</td>
<td>&gt;212°F</td>
</tr>
<tr>
<td>Vapor Pressure (MM hg)</td>
<td>11.4</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>2.07</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Clear, slightly yellow liquid, pungent odor</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0</td>
</tr>
<tr>
<td>pH</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Evaporation Rate (Ether=1)</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

SECTION IV  FIRE AND EXPLOSION HAZARD DATA

Flash Point – None°F
Flammable Limits
Extinguishing Media – Use media suitable for surrounding materials
Special Fire Fighting Procedures – No special procedures required.
Unusual Fire & Explosion Hazards – None known.

SECTION V – HEALTH HAZARD INFORMATION

Symptoms and Effects of Overexposure – Severe irritation of the nose, mouth, and respiratory tract. Skin irritation; may cause sensitization dermatitis. Severe skin irritation and burns. Eye contact causes severe or permanent damage. Chronic inhalation can lead to bronchitis.
Medical Conditions Aggravated by Exposure – None Known

First Aid
Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. Get prompt medical attention.
Skin: Immediately remove contaminated clothing; wash skin with large amounts of water for at least 15 minutes. Get prompt medical attention.
Inhalation: Move victim to fresh air and restore breathing if necessary. Stay with victim until arrival of emergency medical personnel.
Ingestion: Contact local Poison Control Center or physician immediately!

SECTION VI – REACTIVITY DATA
Edwal Signal Shortstop Indicating Stop Bath Concentrate

**Stability** – Normally Stable

**Incompatible Materials** – Oxidizers, alkalis. Contact with certain metals may yield explosive hydrogen gas.

**Hazardous Decomposition Products** – Carbon monoxide, Carbon dioxide

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**SECTION VII – SPILL or LEAK PROCEDURES**

**Procedures** – Wear personal protective equipment (see Section VIII). Remove heat and ignition sources. Ventilate the area. Clean up with absorbent material.

**Waste Disposal Method** – Dispose of in accordance with Local, State, and Federal Regulations.

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**SECTION VIII – SPECIAL PROTECTION INFORMATION**

**Respiratory** – If TLV is exceeded, or for symptoms of overexposure, wear a NIOSH approved dust mist respirator for organic vapors.

**Eyewear** – If splash potential exists wear chemical splash goggles or faceshield.

**Clothing/Gloves** – If potential for skin contact exists, wear neoprene or other chemical resistant gloves.

**Ventilation** – Local exhaust may be necessary under some handling/use conditions. Specific needs should be addressed by supervisory or health safety personnel.