MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME | Value Liquid Alkali
PRODUCT CODE | SEA12810
MANUFACTURED FOR | Team Systems
STREET ADDRESS | 6325 Hurst Street
CITY, STATE ZIP | Houston, Texas 77008
PHONE | (713) 868-1461

ISSUE DATE | 04/03/01
SUPERCEDES |

EMERGENCY TELEPHONE NUMBER
1-800-535-5053

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS | CAS No. | OSHA PEL/TLV | ACGIH TLV | STEL | OTHER LIMITS
--- | --- | --- | --- | --- | ---
Sodium Hydroxide | 1310-73-2 | 2 mg/m³ | 2 mg/m³ | Not applicable | Not applicable
Potassium Hydroxide | 1310-58-3 | 2 mg/m³ | 2 mg/m³ | Not applicable | Not applicable

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW | Causes Severe burns, Harmful if Swallowed.

POTENTIAL HEALTH EFFECTS

INGESTION | Burning and damage of mucous membranes
INHALATION | Irritation and damage of mucous membranes
EYE CONTACT | Irritation, burning
SKIN CONTACT | Irritation, burning

SECTION 4 - FIRST AID MEASURES

INGESTION | Drink large amounts of water of milk, followed by citrus juice. DO NOT INDUCE VOMITING. See a physician immediately.
INHALATION | If irritation occurs, leave area until mists have dissipated. If irritation persists, see a physician.
EYE CONTACT | Flush with water for 15 minutes. See a physician immediately.
SKIN CONTACT | Flush with water for 15 minutes. If irritation persists, see a physician.
NOTE TO PHYSICIAN | Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 - FIRE FIGHTING MEASURES
**MSDS**

**PRODUCT** Value Liquid Alkali

**CODE** SEA12810

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### FLASH POINT / METHOD

<table>
<thead>
<tr>
<th>FLAMMABLE LIMITS</th>
<th>N/A</th>
</tr>
</thead>
</table>

| % VOLATILE | Not applicable |

| EXTINGUISHING MEDIA | Dry chemical, water mist, alcohol foam. |

| SPECIAL FIRE FIGHTING PROCEDURES | Firefighters should wear a self-contained breathing apparatus as in all chemical fires. |

| FIRE AND EXPLOSION HAZARDS | None |

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### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**RESPONSE TO SPILLS**

Stop leak. Dilute spilled material with dilute acetic acid.

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### SECTION 7 – HANDLING AND STORAGE

**HANDLING PRECAUTIONS**

Wash hands before eating. Keep container tightly closed when not in use.

**STORAGE PRECAUTIONS**

Store in a cool, dry place.

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### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS

**HYGIENIC PRACTICES**

Normal procedures for good hygiene. Observe label precautions. Use personal protection equipment.

**ENGINEERING CONTROLS**

Use general mechanical ventilation to remove vapors at the source. Eyewash station is recommended.

**RESPIRATOR**

Not required

**GOGGLES / FACE SHIELD**

Required; goggles should be chemical splash type

**APRON**

Not required

**GLOVES**

Required; chemical resistant type

**BOOTS**

Not required

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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE**

Water-white, clear liquid

**BOILING POINT**

212°F

**ODOR**

No discernable odor

**VAPOR PRESSURE**

N/A

**PH 1%**

>12

**VAPOR DENSITY**

N/A

**SPECIFIC GRAVITY**

1.260

**EVAPORATION RATE**

N/A

**SOLUBILITY IN WATER**

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### SECTION 10 – STABILITY AND REACTIVITY

**CHEMICAL STABILITY**

<table>
<thead>
<tr>
<th>STABLE</th>
<th>X</th>
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</thead>
</table>

**CONDITIONS TO AVOID**

No special precautions beyond standard safe industrial practices.

**INCOMPATIBILITY**

Strong acids and oxidizing agents.
### HAZARDOUS PRODUCTS OF DECOMPOSITION
- Oxides of carbon

### POLYMERIZATION
- WILL NOT OCCUR
- MAY OCCUR

### CONDITIONS TO AVOID
- Elevated temperatures

## SECTION 11 – TOXICOLOGICAL INFORMATION

### CARCINOGENICITY

**X** This product contains a known or suspected carcinogen

**X** This product does not contain any known or anticipated carcinogens according to the criteria of the NTP Annual Report on Carcinogens and OSHA 29 CFR 1910.12

### OTHER EFFECTS

<table>
<thead>
<tr>
<th>Type</th>
<th>Effect</th>
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</thead>
<tbody>
<tr>
<td>ACUTE</td>
<td>Severe irritation and burning to mucous membranes; dehydration and defatting of skin.</td>
</tr>
<tr>
<td>CHRONIC</td>
<td>Unknown</td>
</tr>
<tr>
<td>ORAL LD/50</td>
<td>Unknown</td>
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</tbody>
</table>

## SECTION 12 – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL** Diluted neutralize material may be flushed to sewer.

## SECTION 13 – TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT CLASSIFICATION</th>
<th>HAZARDOUS</th>
<th>X</th>
<th>NOT HAZARDOUS</th>
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</thead>
<tbody>
<tr>
<td>DESCRIPTION</td>
<td>Corrosive liquid n.o.s. (contains sodium hydroxide and potassium hydroxide)</td>
<td>8, UN1760</td>
<td>PGII</td>
</tr>
<tr>
<td>SEATEX HM CODE</td>
<td>175</td>
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</table>

## SECTION 14 – OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS CLASSIFICATION</th>
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</thead>
<tbody>
<tr>
<td>2 BL  BLUE</td>
<td>HEALTH HAZARD</td>
</tr>
<tr>
<td>0 RE  RED</td>
<td>FLAMMABILITY</td>
</tr>
<tr>
<td>0 YE  YELLOW</td>
<td>REACTIVITY</td>
</tr>
<tr>
<td>Alk WHITE</td>
<td>SPECIAL HAZARD</td>
</tr>
</tbody>
</table>

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Team Systems in connection with the use of this information.