PRODUCT NAME: BFW-504, Boiler Corrosion and Scale Inhibitor

1. CHEMICAL PRODUCT

MSDS FORM NUMBER: 6082

NFPA/HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 3/3
Fire: 0/0
Reactivity: 1/1
Special/Protective Equipment: None

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>APPROX. WEIGHT PERCENT</th>
<th>ACGIH TLV</th>
<th>ACGIH UNIT</th>
<th>OSHA PEL</th>
<th>OSHA UNIT</th>
<th>SARA 313 Reportable</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTASSIUM HYDROXIDE</td>
<td>8 max.</td>
<td>2</td>
<td>mg/M3 (ceiling)</td>
<td>2</td>
<td>mg/M3 (ceiling)</td>
<td>No</td>
</tr>
<tr>
<td>1310-58-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylaminoethanol (DEAE)</td>
<td>0.1 max</td>
<td>2</td>
<td>PPM (skin)</td>
<td>10</td>
<td>PPM (skin)</td>
<td>No</td>
</tr>
<tr>
<td>100-37-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): As water (C) NA
VAPOR PRESSURE: As water
VAPOR DENSITY (AIR=1): As water
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY: 1.202
VOC Content (%): NE
VOV Content (%): NE
EVAPORATION RATE: As water
PH: 13 - 14
APPEARANCE AND ODOR: Dark brown liquid. Mild odor.

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): None (C): NA
### 5. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th><strong>STABILITY DATA:</strong></th>
<th>STABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POLYMERIZATION:</strong></td>
<td>Will Not Occur.</td>
</tr>
<tr>
<td><strong>HAZARDOUS DECOMPOSITION:</strong></td>
<td>If evaporated to dryness, as in a fire, material may burn, releasing: Nitrogen oxides. Carbon Monoxide. Contact with acids may release: Sulfur dioxide.</td>
</tr>
<tr>
<td><strong>INCOMPATIBILITY (MATERIALS TO AVOID):</strong></td>
<td>Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Do not mix with acidic materials.</td>
</tr>
<tr>
<td><strong>CONDITIONS/HAZARDS TO AVOID:</strong></td>
<td>None.</td>
</tr>
</tbody>
</table>

### 6. HAZARDS IDENTIFICATION

**EFFECTS FROM ACUTE EXPOSURE:**

**INGESTION:**
Severe burns to mucous membranes of mouth, throat and digestive tract.

**SKIN CONTACT:**
Causes moderate skin irritation. Prolonged contact causes severe burns which may not be immediately painful or visible.

**INHALATION:**
Mists are irritating to mucous membranes, respiratory tract, and lung tissue.

**EYE CONTACT:**
Causes severe eye burns. Corrosive to eye tissue and may cause severe damage and blindness. High vapor concentration will cause irritation.

**CHRONIC EFFECTS:**
None known.

**EFFECTS/CARCINOGENICITY:**
None listed under OSHA, IARC, or NTP.

**ROUTES OF ENTRY:**
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.
EMERGENCY AND FIRST AID MEASURES:

INGESTION: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. SKIN: Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation persists. INHALATION: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. EYES: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

NOTES TO PHYSICIAN: None.

7. HANDLING AND STORAGE

SPILL PROCEDURES:
SMALL SPILLS: Flush with water.
LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.

WASTE DISPOSAL METHODS:
Dispose in accordance with Federal, State and Local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Danger: Corrosive. Avoid contact with skin and eyes. Store in a cool, dry area.

OTHER PRECAUTIONS:
Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS: None known.
RESPIRATORY PROTECTION: None normally required. NIOSH approved respirator if spray mist in air causes irritation.
PROTECTIVE GLOVES: Rubber or plastic gloves recommended to minimize skin contact.
EYE PROTECTION: Goggles. Face shield.
OTHER PERSONAL PROTECTION EQUIPMENT: Appropriate protective clothing as needed to prevent skin contact.
VENTILATION: None required.

Health and safety information presented on this form is generally applicable at recommended dilutions, varying only in degree. This information was complied from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***