SECTION I: GENERAL INFORMATION

PRODUCT NAME: 0.1M Bromide Standard

CHEMICAL NAME: Sodium Bromide in Water
CHEMICAL FAMILY: salt solution
DOT SHIPPING INFO: N/A
IATA SHIPPING INFO: N/A

SECTION II: INGREDIENTS

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>%</th>
<th>CHEMICAL NAME(S)</th>
<th>LD50 (mg/kg) oral-rat</th>
<th>OSHA/PEL ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-15-6</td>
<td>1.0%</td>
<td>Sodium Bromide</td>
<td>3.59</td>
<td>none</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>99.0%</td>
<td>Water</td>
<td>-</td>
<td>none</td>
</tr>
</tbody>
</table>

SECTION III: PHYSICAL DATA

BOILING POINT: 100°C
SPECIFIC GRAVITY: 1.0
VAPOR PRESSURE: N/A
FREEZING POINT: 0°C
VAPOR DENSITY: N/A
pH: 5.5-8
WATER SOLUBILITY: Soluble
APPEARANCE & ODOR: Colorless, odorless, liquid

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASHPOINT: Not flammable
AUTOIGNITION TEMPERATURE: N/A
EXTINGUISHING MEDIA: Water, CO2, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE & EXPLOSION HAZARDS: None
SECTION V: HEALTH HAZARD DATA
EFFECTS OF OVEREXPOSURE: This product is a low hazard for both chronic and acute exposure. Possible irritation of the skin if allowed to remain on skin for long periods of time.
EMERGENCY & FIRST AID: Wash off skin with water.
EYES & SKIN: Flush with water.
INGESTION/INHALATION: If ingested, consult physician.

SECTION VI: REACTIVITY DATA
STABLE: yes
CONDITIONS TO AVOID: None
INCOMPATIBILITY: Alkaloidal and metallic salts and acids.
HAZARDOUS DECOMPOSITION PRODUCTS: Heating to decomposition may emit toxic fumes of bromine.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII: SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN: Clean up and wash down drain.
WASTE DISPOSAL METHOD: Observe all state, federal, and local laws. Flush down drain if allowed.

SECTION VIII: SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION: None
VENTILATION: N/A
PROTECTIVE GLOVES: Any type
EYE PROTECTION: Safety goggles
OTHER PROTECTIVE EQUIPMENT: N/A

SECTION IX: SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Sodium bromide does not appear on any listing associated with SARA Title III law.
OTHER PRECAUTIONS: NFPA rating (0-4): Fire-0, Health-0, Reactivity-0, specific-none.

ISSUE DATE: April 17, 2003