Sodium Hypochlorite

SECTION I - PRODUCT INFORMATION

TRADE NAME: Sodium Hypochlorite Solution - 15
CHEMICAL NAME & SYNONYM: Bleach
CHEMICAL FAMILY: Base
FORMULA: NaOCl
DOT PROPER SHIPPING NAME: HYPOCHLORITE SOLUTION
D.O.T. HAZARD CLASS: CORROSIVE MATERIAL
D.O.T. IDENTIFICATION #: UN1191
D.O.T. LABEL: Bleach (Corrosive)

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>PERCENT TLV (UNIT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hypochlorite</td>
<td>12.8 %</td>
</tr>
</tbody>
</table>

SECTION III - PHYSICAL DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>130°F</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-10°F</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>1500 mm Hg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>35.0 g/L</td>
</tr>
<tr>
<td>Solubility in Water: Complete</td>
<td></td>
</tr>
</tbody>
</table>

SECTION IV - FIRE & EXPLOSION HAZARDS

CLARIFY POINT (METHOD USED): Raed.
FLAMMABLE LIMITS: LEL: N.A.
UEL: N.A.
EXTINGUISHING MEDIA: For fires in areas use appropriate media. For example: Water spray, Dry Chemicals, Carbon Dioxide, Alcohol Foam.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not Established (OSHA 12 CFR 1910.101)
Established (ACGIH 1986-89)
Recommended TLV for Chlorine is used: 1 ppm

EFFECTS OF EXPOSURE

EYE CONTACT: Causes severe burns and destruction of tissues. Small quantities can result in permanent damage and loss of vision.
SKIN CONTACT: Irritating to skin. Prolonged contact can be more severe. Corrosive action causes burns and frequently deep destruction with extensive scarring.
INHALATION: Inhalation causes coughing and irritation of nose, throat and upper respiratory tract. Inhalation of dust or fume can cause damage to the upper respiratory tract and to the lungs.

SECTION VI - REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Avoid temperatures above 20 Degree F.
INCOMPATIBILITY: Acids, Ammonia, Organic materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine-containing gases can be produced.

HAZARDOUS POLYMERIZATION: May occur

SECTION VII - SPILL / LEAK / FIRE / EXPLOSION GUIDELINES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CORROSIVE MATERIAL. Use self-contained breathing apparatus and proper protective equipment. This material is very dangerous and will severely damage skin. Keep two bottles of water for flushing out exposed skin immediately after exposure. For further instructions, refer to Material Safety Data Sheet.

SECTION VIII - SPECIAL PROTECTION INFORMATION

CONSULT SAFETY EQUIPMENT DISTRIBUTOR

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
CORROSIVE MATERIAL. Store in cool, well-ventilated area away from sources of ignition and out of direct sunlight. Keep containers tightly closed. Store pressure in dry, cool, and well-ventilated area away from incompatible materials. Do not freeze. Do not mix with other products.

OTHER PRECAUTIONS: Avoid contact with eyes and skin. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapors. Wash thoroughly after handling. Avoid dust or mist formation.