SODIUM HYPOCHLORITE SOLUTION-15

MANUFACTURED BY: HYDRITE CHEMICAL CO.
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MSDS#HY851CL1500
PREPARED BY: LMT/JRS

SECTION I - PRODUCT INFORMATION

TRADE NAME: Sodium Hypochlorite Solution - 15
CHEMICAL NAME & SYNONYMS: Bleach

CHEMICAL FAMILY: Base
FORMULA: NaOCl

DOT PROPER SHIPPING NAME: HYPOCHLORITE SOLUTION

D.O.T. HAZARD CLASS: CORROSIVE MATERIAL

D. O. T. IDENTIFICATION #: UN1791
D.O.T. LABEL: Bleach (Corrosive)

SECTION II - HAZARDOUS INGREDIENTS

<table>
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<tr>
<th>INGREDIENT</th>
<th>PERCENT</th>
<th>TLV (UNITS)</th>
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<td>Sodium Hypochlorite</td>
<td>12.5%</td>
<td>Not Estab.</td>
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SECTION III - PHYSICAL DATA

BOILING POINT (DEG. F): Not Estab.
FREEZING POINT (DEG.F): -10
VAPOR PRESSURE (MM HG): Not Estab.
VAPOR DENSITY (AIR=1): > 1

SPECIFIC GRAVITY: 1.210 PERCENT
VOLATILEBY VOLUME%: 100 %
EVAPORATION RATE: (N.A.): N.A.

SOLUBILITY IN WATER: Complete

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None

FLAMMABLE LIMITS

LEL: N. A.  
UEL: N. A.

EXTINGUISHING MEDIA: For fires in area use appropriate media. For example: Water spray. Dry Chemical. Carbon Dioxide. Alcohol Foam

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-Approved self-contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS: Chlorine-containing gases can be produced.

SECTION V - HEALTH HAZARD DATA


Not Established  
ACGIH 1984-85)  
Recommend TLV for Chlorine be used: 1 ppm 1 ppm (ACGIH 1984-85).  

EFFECTS OF OVEREXPOSURE

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 ulceration with ultimate scarring.  
INHALATION: Inhalation causes coughing and irritation of nose, throat, and mucous membranes. Inhalation of dust or mists can cause damage to the upper respiratory tract and to the lung tissue
SECTION V - HEALTH HAZARD DATA

depending upon the extent of exposure.
INGESTION: Ingestion can cause very serious damage to the mouth, esophagus, stomach, and other tissues with which contact is made, and may be fatal. May cause nausea and vomiting. Large amounts may be fatal.

EMERGENCY AND FIRST AID PROCEDURES
EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. Call a physician immediately.
SKIN CONTACT: Flush area with water while removing contaminated clothing and shoes. Follow by washing with soap and water. Do not reuse clothing or shoes until cleaned. If irritation persists, get medical attention. Do not apply oils or ointments unless ordered by the physician.
INGESTION: If conscious, drink a quart of water. DO NOT INDUCE VOMITING. Take immediately to a hospital or a physician. If unconscious or in convulsions, take immediately to a hospital or physician. Do not induce vomiting or give anything by mouth to an unconscious victim.
INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. CALL A PHYSICIAN.

SECTION VI - REACTIVITY DATA

STABILITY: _STABLE _X.UNSTABLE
CONDITIONS TO AVOID: Avoid temperatures above 70 Deg. F.


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

HAZARDOUS POLYMERIZATION: _MAY OCCUR _X.Will NOT OCCUR
SECTION VI - REACTIVITY DATA

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Use proper Safety Equipment. Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

WASTE DISPOSAL METHOD: Observe all Local, State, and Federal Regulations. If approved, flush to sewer with large quantities of water.

SECTION VIII - SPECIAL PROTECTION INFORMATION

CONSULT SAFETY EQUIPMENT DISTRIBUTOR

RESPIRATORY PROTECTION: If TLV is exceeded wear: NIOSH-Approved self-contained breathing apparatus.

VENTILATION: Maintain adequate ventilation. Keep levels below recommended TLV. Avoid mist formation.

PROTECTIVE GLOVES: Rubber (Latex), Polyvinyl Chloride, Neoprene.


SECTION IX - SPECIAL PRECAUTIONS
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
CORROSIVE MATERIAL. Store in cool, well-ventilated area away
from all sources of ignition and out of direct sunlight. Keep containers tightly closed. Relieve pressure in drums
weekly. Store away from incompatible materials. Do not freeze.

OTHER PRECAUTIONS: Avoid contact with skin and eyes. Do not swallow. Use with adequate ventilation. Avoid prolonged
or repeated breathing of vapors. Wash thoroughly after handling. Avoid dust or mist formation.

The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to its use in
combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are
outside our control it should not be taken as a warranty or representation for which Hydrite Chemical Co. assumes legal
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