MATERIAL SAFETY DATA SHEET

Textile Care Division Ecolab Inc.
Ecolab Center St. Paul MN 55102
Product Information: 1-800-553-8683 Issue Date: August 5, 1999

1.0 IDENTIFICATION /

1.1 Product Name: LIQUID HI-CHLOR
1.2 Product Type: Laundry Chlorine Bleach
1.3 Hazard Rating: Health: 3 Fire: 0 Reactivity: 1

Substances Subject to SARA 313 Reporting Are Indicated by "#"

2.0 HAZARDOUS COMPONENTS /

2.1 Sodium hypochlorite

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>% Pel</th>
<th>TWA</th>
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<tr>
<td>7681-52-9</td>
<td>8.4 *</td>
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*PEL for chlorine = 3 C; ACGIH STEL = 3

2.2 This product contains no other components considered hazardous according to the criteria of 29 CFR 1910.1200.

STEL = ACGIH short term exp. limit (15 min) PEL = OSHA 8 hr ave in air
TWA = ACGIH 8 hr average C = ceiling limit in air, do not exceed

3.0 PHYSICAL DATA /

3.1 Appearance: Clear light yellow liquid; chlorine odor
3.2 Solubility in Water: Mixes with water in all proportions
3.3 pH: 10.5 (1%)
3.4 Initial Boiling Point: >212 deg F
3.5 Specific Gravity: 1.154 @ 68 deg F

4.0 FIRE AND EXPLOSION DATA /

4.1 Special Fire Hazards: See Line 5.1
4.2 Fire Fighting Methods: Does not support combustion.

5.0 REACTIVITY DATA /

5.1 Stability: High temperatures may generate hazardous decomposition products including chlorine gas.
5.2 Conditions to Avoid: Mix only with water. Do not mix with acids or ammonia - will cause hazardous vapors.

6.0 SPILL OR LEAK PROCEDURES / USE PROPER PROTECTIVE EQUIPMENT

6.1 Cleanup: Dike or dam large spills. Pump to containers or soak up on inert absorbent. Flush residue to sanitary sewer.
6.2 Waste Disposal: Consult state/local authorities for limits on chemical waste disposal.
7.0 HEALTH HAZARD DATA / DANGER

7.1 Effects of Overexposure to Concentrate:
- Eyes: CAUSES CHEMICAL BURNS. May cause blindness.
- Skin: CAUSES CHEMICAL BURNS.
- If Swallowed: HARMFUL. Causes chemical burns of mouth, throat and stomach.
- If Inhaled: Vapors or mist cause irritation, including a burning taste, sneezing, coughing and difficulty breathing. People with asthma or other lung problems may be more affected.

8.0 FIRST AID /

- Eyes: Flush at once with cool running water. Remove contact lenses and continue flushing for 15 minutes, holding eyelids apart so as to rinse entire eye. CALL A PHYSICIAN IMMEDIATELY.
- Skin: Immediately flush skin with plenty of cool running water for at least 15 minutes while removing contaminated clothing and shoes. Discard or wash before reuse.
- If Swallowed: Rinse mouth at once; then drink 1 or 2 large glasses of water. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person.
- If Inhaled: Immediately move to fresh air.

IMMEDIATELY CALL THE MEDICAL EMERGENCY NUMBER, 1-800-328-0026, A POISON CONTROL CENTER, OR A PHYSICIAN

9.0 PROTECTIVE MEASURES /

9.1 FOR CONCENTRATE:
- Eyes: Wear chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
- Skin: Wear any industrial rubber glove.
- Respiratory: Avoid breathing mists or vapors of this product.

9.2 FOR USE SOLUTION: Avoid skin or eye contact. May cause skin and eye irritation. Eye protection recommended.

10.0 ADDITIONAL INFORMATION/PRECAUTIONS /


KEEP OUT OF REACH OF CHILDREN

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.