

ALDEN LEEDS, INC.
55 JACOBUS AVE.
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PRODUCT CODE # 4011
PRODUCT NAME: LIQUID CHLORINE

MATERIAL
SAFETY DATA
SHEET
10/20/04

SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS: Hypochlorite Aqueous Solution
CHEMICAL FAMILY: Alkali
FORMULA: NaOCl
TRADE NAME: Generic Liquid Chlorine, Liquid Shock, Private Label
DESCRIPTION: Light yellow to green clear liquid solution. Characteristic chlorine odor.
CAS NO. 7681-52-9

SECTION II - PHYSICAL DATA

Boiling Point: 110 C	Evaporation Rate: Similar to water
Vapor Pressure: VP of water plus decomposition produce VP	Vapor Density: N/A
Solubility in water: Complete	Specific Gravity (H₂O=1): @ 20 C
pH Data: 9 - 12	7.0% = 1.103
% Volatile by Volume: Decomposes leaving salt solution	15.0% = 1.206
	20.0% = 1.266

SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A **Autoignition Temp:** N/A
Flammable Limits in Air % By Volume: N/A
Extinguishing Media: Use media appropriate for surrounding fire.
Special Fire Fighting Procedures: Keep material cool using a water spray from a safe distance. Keep all unnecessary people away. Stay up wind and stay out of low lying areas.
Unusual Fire and Explosion Hazards: This material will react with some metals which may cause liberation of oxygen. Toxic fumes can be liberated by contact with acid or heat. Vigorous reactions can occur with oxidizable material and organics.

SECTION IV - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
Normally none. Vapors may irritate respiratory ailments.

SECTION V - EMERGENCY AND FIRST AID PROCEDURE

INHALATION: Remove to fresh air. Consult a physician.
SKIN: Remove contaminated clothing. Wash off with water. Consult a physician.
EYE: Immediately flush with water for at least 15 minutes. Immediately consult a physician.
INGESTION: Rinse mouth with water. Drink water or milk and induce vomiting by placing finger to back of throat. Milk of Magnesia may be helpful. Consult a physician immediately.

SECTION VI - REACTIVITY DATA

Stability: Relatively stable - Contingent upon temperatures, contamination (metals), and pH (alkalinity).
Conditions to Avoid: Due to the formation of chloramines - mixing ammonia and hypochlorite solutions should be avoided.
Incompatibility (materials to avoid): Acids, ammonia, oxidizable materials, metals (aluminum, tin, copper, nickel, manganese, iron, etc.). Heat sources and light sources.
Hazardous Decomposition: Chlorine, hydrochloric acid, hypochlorous acid vapors. Oxygen can be generated during decomposition.
Hazardous Polymerization: Will not occur.

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Hypochlorite Aqueous Solution

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SECTION VII - SPILL, LEAKAGE & DISPOSAL PROCEDURES

Steps to take if material leaks or spills: Concentrated solutions will seriously affect aquatic life. Do not allow material to enter sewers, streams, or ponds. Personnel involved in clean-up should wear approved NIOSH respirator, rubber boots, gloves and clothing to avoid contact.

Waste disposal method: Contain spills in plastic drums when available. Contain in as small an area as possible such as a holding area for dilution and neutralization. Dispose of in accordance with all Federal, State and Local regulations.

SECTION VIII - SPECIAL PROTECTION DATA

Ventilation: Local ventilation is adequate.

Eye Protection: Use chemical splash goggles and face shield.

Respiratory Protection: Use an approved NIOSH respirator.

Protective Gloves: Use chemical resistant gloves.

Other Equipment: Wear hard hats, boots and body-covering clothing, such as a rubber apron or rain suit, to avoid contact. Eye wash fountain should be located near work area.

SECTION IX - SPECIAL PRECAUTIONS DATA

Handling and Storage: Store in vented closed containers that provide protection from direct sun light. Keep temperature below 85 F. Do not store near acids, heat, oxidizable materials or organics.

Other: None.

SECTION X - TRANSPORTATION INFORMATION

Proper Shipping Name: Hypochlorite solutions, 8, UN 1791, PGIII. For all transportation accidents, call **CHEMTREC** at 800-424-9300.

The information herein is given in good faith but no warranty, expressed or implied, is made.

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24 HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300