



The Clorox Company
 7200 Johnson Drive
 Pleasanton, California 94588
 Tel. (510) 847-6100

Material Safety Data Sheet

I Product: LIQUID-PLUMR®		
Description: CLEAR ALKALINE LIQUID WITH A CHLORINE ODOR		
Other Designations	Manufacturer	Emergency Telephone No.
Drain Cleaner Drain Opener	The Clorox Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: Rocky Mountain Poison Center (800) 446-1014 For Transportation Emergencies Call: Chemtrec (800) 424-9300

II Health Hazard Data

CORROSIVE to the eyes. Injures eyes, skin and mucous membranes on contact. Harmful if swallowed; nausea, vomiting, and burning sensation of the mouth and throat may occur. No adverse health effects are expected with recommended use. Occasional clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (eg. irritation) occurs during exposure. However, clinical tests conducted on intact skin with Liquid-Plumr found no sensitization in the test subjects.

Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

FIRST AID: EYE CONTACT: Immediately flush eyes with water for 15 minutes. Contact a physician.
INGESTION: Drink a glassful of water. **DO NOT** induce vomiting. Immediately contact a physician or Poison Control Center.
SKIN CONTACT: Remove contaminated clothing. Flush skin with water. Contact a physician if irritation or discomfort persists.
INHALATION: Remove from exposure to fresh air.

IV Special Protection and Precautions

Hygienic Practices: Wear safety glasses and gloves. The availability of an eye wash and shower is recommended in a manufacturing environment.
Engineering Controls: Use general ventilation to minimize exposure to vapors.
Work Practices: Avoid eye and skin contact and inhalation of vapor or mist.

KEEP OUT OF REACH OF CHILDREN. Avoid all splashing; particularly in eyes, on skin and clothing. Keep children away from basins containing Liquid-Plumr. Do not use plunger with Liquid-Plumr. Do not use Liquid-Plumr with ammonia, toilet bowl cleaners or other drain openers. Do not reuse empty container. Rinse container and replace cap before discarding.

VI Spill or Leak Procedures

Spill Procedures: Immediately contain. Treat as a strong base. Neutralize with dilute acid and copious amounts of water. Dispose of in accordance with all applicable federal, state, and local regulations.

VIII Fire and Explosion Data

Flash Point: None
Special Firefighting Procedures: None
Unusual Fire/Explosion Hazards: None. Not flammable or explosive. Product does not ignite when exposed to open flame.

III Hazardous Ingredients

Ingredient	Concentration	Worker Exposure Limit
Sodium hydroxide CAS #1310-73-2	0.5-2%	2 mg/m ³ TLV-C
Sodium hypochlorite CAS #7681-52-9	5-10%	not established

None of the ingredients in this product are on the IARC, OSHA or NTP carcinogen lists. TLV-C=Threshold Limit Value-Ceiling. The worker exposure limit should not be exceeded at any time. Source: ACGIH., 1985-86.

V Transportation and Regulatory Data

U.S. DOT Hazard Class: Not Restricted
U.S. Proper Shipping Name: Sodium Hypochlorite Solution

EPA - SARA TITLE II/CERCLA: This product is not reportable under Sections 311/312 and contains no chemicals reportable under Section 313. This product does contain chemicals (sodium hydroxide and sodium hypochlorite) that are regulated under Section 304/CERCLA.

TSCA/DSL STATUS: All components of this product are on the U.S. TSCA Inventory and Canadian DSL.

VII Reactivity Data

Stable under normal use and storage conditions. Reacts with other household chemicals such as toilet bowl cleaners, ammonia or other drain openers to produce hazardous gases, such as chlorine and other chlorinated species.

IX Physical Data

Boiling point approx. 212°F 100°C
 Specific Gravity (H₂O=1) 1.09
 Solubility in water complete
 pH 13.2