



Clorox Professional Products Company
 1221 Broadway
 Oakland, CA 94612
 Tel. (510) 271-7000

Material Safety Data Sheet

I Product:	COMMERCIAL SOLUTIONS® LIQUID-PLUMR® HEAVY DUTY CLOG OPENER	
Description:	CLEAR ALKALINE LIQUID WITH A CHLORINE ODOR	
Other Designations	Distributor	Emergency Telephone Nos.
Drain Cleaner	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrec (800) 424-9300

II Health Hazard Data	III Hazardous Ingredients										
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 (e.g. 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. SKIN CONTACT: Remove contaminated clothing. Flush skin with water. Contact a physician if irritation or discomfort persists. INGESTION: Drink a glassful of water. DO NOT induce vomiting. Immediately contact a physician or Poison Control Center. INHALATION: Remove from exposure to fresh air. HMIS/NFPA: H=3, F=0, R=1, PP=B HMIS Hazard Scale: 1=slight 2=moderate 3=serious 4=severe	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite CAS# 7681-52-9</td> <td>5-10%</td> <td>Not established</td> </tr> <tr> <td>Sodium hydroxide CAS # 1310-73-2</td> <td>0.5-2%</td> <td>2 mg/m³ - TLV-Ceiling limit^a 2 mg/m³ - PEL^b</td> </tr> </tbody> </table> <p>^aTLV-Ceiling limit = ACGIH Threshold Limit Value-Ceiling limit ^bPEL = OSHA Permissible Exposure Limit-Time Weighted Average</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>		Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS# 7681-52-9	5-10%	Not established	Sodium hydroxide CAS # 1310-73-2	0.5-2%	2 mg/m ³ - TLV-Ceiling limit ^a 2 mg/m ³ - PEL ^b
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IV Special Protection and Precautions	V Transportation and Regulatory Data
Hygienic Practices: Wash skin after direct contact. Do not wear product-contaminated clothing. Engineering Controls: Use general ventilation to minimize exposure to vapors. Personal Protective Equipment: Wear safety glasses and gloves. The availability of an eye wash and shower is recommended in a manufacturing environment. KEEP OUT OF REACH OF CHILDREN. Avoid all splashing, particularly in eyes, on skin and on clothing. Keep children away from basins containing Liquid-Plumr®. Do not use Liquid-Plumr® with plunger or in toilets. 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.	DOT/IATA/IMDG: Not restricted. EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals regulated under Section 313 and contains sodium hypochlorite and sodium hydroxide which are regulated under Section 304/CERCLA.

VI Spill Procedures/Waste Disposal	VII Reactivity Data
Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material. For spills of multiple products, responders should evaluate the MSDS's of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed, and/or poorly ventilated areas until hazard assessment is complete. Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.	Stable under normal use and storage conditions. Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.

VIII Fire and Explosion Data	IX Physical Data
Not flammable or explosive. In a fire, cool containers to prevent rupture and release of sodium chlorate.	Boiling point ~212°F/100°C (decomposes) Specific gravity ~1.1 Solubility in Water complete pH ~13.2