



The Clorox Company
1221 Broadway
Oakland, CA 94612
Tel. 1-510-271-7000

Material Safety Data Sheet

I Product: PRO-STRENGTH LIQUID-PLUMR® WITH PENETREX™		
Description: CLEAR, FAINT YELLOW, VISCOUS LIQUID WITH A CHARACTERISTIC BLEACH ODOR		
Other Designations	Distributor	Emergency Telephone Nos.
Drain Cleaner Drain Opener	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call 1-800-446-1014. For Transportation Emergencies, call 1-800-424-9300 (Chemtrec).

II Health Hazard Data	III Hazardous Ingredients																
<p>CAN CAUSE BURNS ON CONTACT. 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 products containing sodium hypochlorite found no sensitization in the test subjects.</p> <p>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.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Flush immediately with water for 15 minutes. If wearing contact lenses, remove after first 5 minutes. Immediately contact a doctor.</p> <p>INGESTION: Drink a glassful of water. DO NOT induce vomiting. Immediately contact a doctor or Poison Control Center.</p> <p>SKIN CONTACT: Remove contaminated clothing. Wash immediately with water. Contact a doctor immediately if irritation or discomfort persists.</p> <p>INHALATION: Remove from exposure to fresh air.</p>	<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>1 - 2.5%</td> <td>2 mg/m³ - TLV-C^a 2 mg/m³ - PEL^b</td> </tr> <tr> <td>Myristamine oxide CAS# 3332-27-2</td> <td>0.5 - 2%</td> <td>Not established.</td> </tr> <tr> <td>Lauramine oxide CAS# 1643-20-5</td> <td>0.5 - 2%</td> <td>Not established.</td> </tr> </tbody> </table> <p>^aTLV-C = ACGIH Threshold Limit Value-Ceiling limit. ^bPEL = OSHA Permissible Exposure Limit - Time Weighted Average</p> <p>None of the ingredients 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	1 - 2.5%	2 mg/m ³ - TLV-C ^a 2 mg/m ³ - PEL ^b	Myristamine oxide CAS# 3332-27-2	0.5 - 2%	Not established.	Lauramine oxide CAS# 1643-20-5	0.5 - 2%	Not established.
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IV Special Protection and Precautions	V Transportation and Regulatory Data
<p>Hygienic Practices: Wear safety glasses and gloves. The availability of an eye wash and shower is recommended in a manufacturing environment.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to vapors.</p> <p>Work Practices: Avoid splashing, eye and skin contact and inhalation of vapor or mist.</p> <p>KEEP OUT OF REACH OF CHILDREN. Avoid all splashing; particularly in eyes, on skin and clothing. Keep children away from basins containing Pro-Strength Liquid-Plumr. Do not use plunger with Pro-Strength Liquid-Plumr. Do not use Pro-Strength Liquid-Plumr with ammonia, toilet bowl cleaners or other drain openers. Do not reuse empty container. Rinse container and replace cap before discarding.</p>	<p>U.S. DOT Hazard Class: Consumer Commodity ORM-D</p> <p>IMDG: Dangerous goods in limited quantities of Class 8.</p> <p>IATA: Corrosive liquid, n.o.s., Class 8, Packing Group II.</p> <p>EPA - SARA TITLE III/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.</p> <p>TSCA/DSL STATUS: All components of this product are on the Canadian DSL, and are either on the TSCA 8(b) Inventory or otherwise exempt from listing. This product is not subject to TSCA 12(b) reporting requirements.</p>

VI Spill Procedures/Waste Disposal	VII Reactivity Data
<p>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 MSDSs 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.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>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.</p>

VIII Fire and Explosion Data	IX Physical Data
<p>Not flammable or explosive.</p> <p>In a fire, cool containers to prevent rupture and release of sodium chlorate.</p>	<p>Specific gravity 1.08 - 1.11</p> <p>Solubility in water complete</p> <p>pH ~13</p>