



The Clorox Company of Canada, Ltd.  
150 Biscayne Crescent  
Brampton, Ontario  
L6W 4V3

Material Safety  
Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION AND USE

<b>PRODUCT NAME:</b> LIQUID-PLUMR® CLOG REMOVER - PROFESSIONAL STRENGTH	<b>PRODUCT IDENTIFICATION NUMBER:</b> Not applicable.
<b>PRODUCT USE:</b> Drain cleaner/opener	
<b>MANUFACTURER</b>	<b>SUPPLIER</b>
Clorox Products Manufacturing Company 1221 Broadway Oakland, California 94612  EMERGENCY PHONE NO.: 1-800-446-1014	The Clorox Company of Canada, Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3  EMERGENCY PHONE NO.: 1-800-446-1014

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Ingredient	% (w/w)	CAS Number	LD50 of Material (Specify Species & Route)	LC50 of Material (Specify Species)
Sodium hypochlorite	3 - 7	7681-52-9	13 g/kg (5.25% NaOCl, rat, oral)	Not available.
Sodium hydroxide	0.5 - 2	1310-73-2	Not available.	Not available.

SECTION 3 - PHYSICAL DATA

<b>Physical State:</b> Liquid	<b>Odour &amp; Appearance:</b> Clear, faint yellow, viscous liquid with characteristic bleach odour.	<b>Odour Threshold:</b> Not available.	<b>Specific Gravity:</b> ≈1.1 at 21 °C
<b>Vapour Pressure:</b> Not available.	<b>Vapour Density:</b> N. Av.	<b>Evaporation Rate:</b> N. Av.	<b>Boiling Point:</b> N. Av.
<b>% Volatile (by volume):</b> 85 - 90%	<b>Solubility in Water:</b> Complete.	<b>pH:</b> ≈13.2	<b>Freezing Point:</b> N. Av.
<b>Coeff. of Water/Oil Dist.:</b> Not available.			

SECTION 4 - FIRE AND EXPLOSION DATA

<b>Flammability:</b> Yes: ___ No: <u>X</u> If yes, under which conditions?			
<b>Means of Extinction:</b> Not flammable.			
<b>Special Procedures:</b> In a fire, cool containers to prevent rupture and release of sodium chlorate.			
<b>Flashpoint &amp; Method:</b> Not applicable.	<b>Upper Flammable Limit (% by volume):</b> Not applicable.	<b>Lower Flammable Limit (% by volume):</b> Not applicable.	
<b>Autoignition Temperature:</b> Not applicable.		<b>Hazardous Combustion Products:</b> Not applicable.	
<b>Explosion Data - Sensitivity to Impact:</b> Not applicable.		<b>Explosion Data - Sensitivity to Static Discharge:</b> Not applicable.	

SECTION 5 - REACTIVITY DATA

<b>Chemical Stability:</b> Yes: <u>X</u> No: ___ If no, under which conditions?	
<b>Incompatibility with other substances:</b> Yes: <u>X</u> No: ___ If so, which ones?	Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.
<b>Reactivity, if any, and under what conditions?</b>	See above.
<b>Hazardous decomposition products?</b>	Exposure to extreme heat may release sodium chlorate.

## SECTION 6 - TOXICOLOGICAL PROPERTIES

<b>Route of Entry?</b>			
Skin Contact: <u> X </u> Skin Absorption: <u>    </u> Eye Contact: <u> X </u> Inhalation Acute: <u> X </u> Inhalation Chronic: <u>    </u> Ingestion: <u> X </u>			
<b>Effects of Acute Exposure to Material:</b> Corrosive to eyes. Injures eyes, skin, and mucous membranes on contact. Harmful if swallowed. Ingestion may cause nausea, vomiting, and burning sensation of mouth and throat. Exposure to vapour or mist may irritate eyes, nose, throat, or lungs. 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 vapour or mist.			
<b>Effects of Chronic Exposure to Material:</b> See Sensitization section below. Clinical testing with a similar product on intact skin showed no induction of sensitization in test subjects.			
<b>Exposure Limits (TLV, ACGIH):</b> Sodium hydroxide - 2 mg/m <sup>3</sup> - Ceiling limit	<b>Irritancy of Material:</b> Corrosive to eyes. May be severely irritating to skin, nose, lungs, throat, and gastrointestinal tract.	<b>Sensitization Property of Material:</b> Some clinical reports suggest a low potential for skin sensitization upon exaggerated exposure to sodium hypochlorite if skin damage occurs during exposure.	<b>Carcinogenicity of Material:</b> Not a carcinogen.
<b>Teratogenicity/Embryotoxicity:</b> Not teratogenic or embryotoxic.	<b>Reproductive Toxicity:</b> Not a reproductive toxicant.	<b>Mutagenicity:</b> Not mutagenic.	<b>Synergistic Materials:</b> None known.

## SECTION 7 - PREVENTATIVE MEASURES

<b>Personal Protective Equipment:</b>		
<b>Gloves (specify):</b> Wear neoprene gloves or other protective gloves.	<b>Respirator (specify):</b> In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.	<b>Eye (specify):</b> Safety glasses.
<b>Footwear (specify):</b> Not applicable.	<b>Clothing (specify):</b> Not applicable.	<b>Other (specify):</b> Not applicable.
<b>Engineering Controls (specify, e.g. ventilation, enclosed process):</b> Use general ventilation to minimize exposure to product vapour or mist.		
<b>Leak and Spill Procedure:</b> 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.		
<b>Waste Disposal:</b> Dispose of in accordance with existing federal, provincial, and municipal environmental regulations.		
<b>Handling Procedures &amp; Equipment:</b> KEEP OUT OF REACH OF CHILDREN. Avoid all splashing, particularly in eyes, on skin, and on clothing. Keep children away from basins containing this product. Do not use this product with plunger or in toilets. Do not use or mix with toilet bowl cleaners, rust removers, household ammonia, acids, or other drain openers. Do not reuse empty container. Rinse container and replace cap before discarding.		
<b>Storage Requirements:</b> Store in a cool place.		
<b>Special Shipping Information:</b> Not restricted per TDG Part 2. Passes corrosives test in UN Orange Book.		

## SECTION 8 - FIRST AID MEASURES

<b>Eye Contact:</b>	If in eyes, rinse with water for 15 minutes. Call a doctor immediately.
<b>Skin Contact:</b>	If on skin, rinse well with water. If irritation persists, call a doctor.
<b>Ingestion:</b>	Call a poison control centre or doctor immediately. Do not induce vomiting.
<b>Inhalation:</b>	Remove to fresh air. If breathing problems develop, call a doctor.

## SECTION 9 - PREPARATION DATE OF MSDS

<b>Prepared by (group, department, etc.)</b> Clorox Services Company	<b>Phone Number:</b> 1-925-425-6100	<b>Date:</b> April 1, 2011	V3
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N. Av. = Not available.

N. Ap. = Not applicable.