



The Clorox Company of Canada, Ltd.
 5700 Yonge Street, Suite 1210
 Toronto, Ontario, Canada
 M2M 4K2

Material Safety
 Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: LIQUID-PLUMR® CLOG REMOVER		PRODUCT IDENTIFICATION NUMBER: Not applicable.
PRODUCT USE: Drain Cleaner/Opener		
MANUFACTURER		SUPPLIER
The Clorox Company of Canada, Ltd. 5700 Yonge Street, Suite 1210 Toronto, Ontario M2M 4K2 EMERGENCY PHONE NO.: 1-800-446-1014		The Clorox Company of Canada, Ltd. 5700 Yonge Street, Suite 1210 Toronto, Ontario M2M 4K2 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

Physical State: Liquid	Odour & Appearance: Clear, faint yellow, thin liquid with characteristic bleach odour.	Odour Threshold: Not available.	Specific Gravity: 71.11 at 21°C
Vapour Pressure: Not available.	Vapour Density: N. Av.	Evaporation Rate: N. Av.	Boiling Point: N. Av.
% Volatile (by volume): 85-90%	Solubility in Water: Complete.	pH: 713.2	Freezing Point: N. Av.
		Coeff. of Water/Oil Dist.: Not available.	

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability: Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/> If yes, under which conditions?	
Means of extinction:	Not flammable.
Special Procedures:	In a fire, cool containers to prevent rupture and release of sodium chlorate.
Flashpoint & Method: Not applicable.	Upper Flammable Limit (% by volume): Not applicable. Lower Flammable Limit (% by volume): Not applicable.
Autoignition Temperature: N. Av.	Hazardous Combustion Products: Products of combustion are toxic.
Explosion Data - Sensitivity to Impact: Not applicable.	
Explosion Data - Sensitivity to Static Discharge: Not applicable.	

SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> If no, under which conditions?	
Incompatibility with other substances: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> 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.
Reactivity, if any, and under what conditions?	See above.
Hazardous decomposition products?	Products of decomposition are toxic.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry?			
In 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>			
Effects of Acute Exposure to Material: Corrosive to eyes. Injures eyes, skin, and mucous membranes on contact. Harmful if swallowed. Ingestion causes nausea, vomiting, and burning sensation of mouth and throat. Exposure to vapour or mist may irritate eyes, nose, throat, or lungs. Exposure to high concentrations of vapour or mist may aggravate the following medical conditions: heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease.			
Effects of Chronic Exposure to Material: See Sensitization section below. Clinical testing with this product on intact skin showed no induction of sensitization in test subjects.			
Exposure Limits (TLV, ACGIH): Sodium hydroxide - 2 mg/m ³ - Ceiling limit	Irritancy of Material: Corrosive to eyes. May be severely irritating to skin, nose, lungs, throat, and gastrointestinal tract.	Sensitization Property of Material: Some clinical reports suggest a low potential for skin sensitization upon exaggerated exposure to sodium hypochlorite if skin damage occurs during exposure.	Carcinogenicity of Material: Not a carcinogen.
Mutagenicity/Embryotoxicity: Not teratogenic or embryotoxic.	Reproductive Toxicity: Not a reproductive toxicant.	Mutagenicity: Not mutagenic.	Synergistic Materials: None known.

SECTION 7 - PREVENTATIVE MEASURES

Personal Protective Equipment:		
Gloves (specify): Wear neoprene gloves or other protective gloves.	Respirator (specify): In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.	Eye (specify): Safety glasses.
Footwear (specify): Not applicable.	Clothing (specify): Not applicable.	Other (specify): Not applicable.
Engineering Controls (specify, e.g. ventilation, enclosed process): Use general ventilation to minimize exposure to product mist or vapour.		
Spill and Leak Procedure: 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 existing federal, provincial, and municipal environmental regulations.		
Handling Procedures & Equipment: 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.		
Storage Requirements: Store in a cool place.		
Special Shipping Information: Not restricted per TDG Part 2. Passes corrosives test in UN Orange Book.		

SECTION 8 - FIRST AID MEASURES

Eye Contact: If splashed in eyes, flush thoroughly with water. Call a physician or poison control centre immediately.
Skin Contact: If splashed on skin, flush thoroughly with water. If irritation persists, call a physician.
Ingestion: If swallowed, give a glass of milk. Call a physician or poison control centre immediately.
Inhalation: If breathing is affected, get fresh air immediately.

SECTION 9 - PREPARATION DATE OF MSDS

Prepared by (group, department, etc.) Clorox Services Company	Phone Number: 1-925-847-6100	Date: January 26, 2002
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. Av. = Not available.

. Ap. = Not applicable.