

Safety Data Sheet

1. Identification of Substance & Company

Product Name: Liquid Plumr® Full Clog Destroyer Clog Remover

Other Names: NA

HSNO Approval: HSR002526, Cleaning Products (Corrosive) Group Standard 2017

Product Code: NA

Proper Shipping Name CORROSIVE LIQUID, N.O.S. (contains sodium hypochlorite)

UN Number: 1760
Packaging group: III
Hazchem Code: 2X

Uses: Drain cleaner/opener

Company Details

Company: Clorox New Zealand Ltd Address: Level 8, Building 5,

Central Park

660-670 Great South Road

Penrose Auckland 1061 New Zealand

Telephone Number: 0800 108 858

Emergency Telephone Number: Poisons and Hazardous Chemicals National Information Centre. Urgent

information: 0800 764 766. Working hours: 03 479 7248

2. Hazard Identification

Hazard Classifications

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002526, Cleaning Products (Corrosive) Group Standard 2017), and is classified as follows:

Classes: Hazard Statement

6.1E (respiratory irritation) - H335 - May cause

respiratory irritation.

8.2C H314 - Causes severe skin burns and

eye damage.

8.3A H318 - Causes serious eye damage. 9.1B H411 - Toxic to aquatic life with long

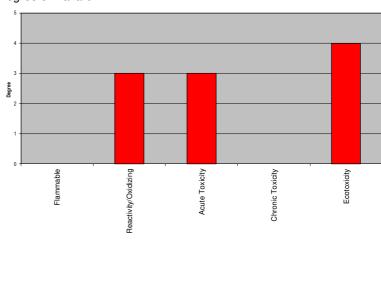
lasting effects.

Symbols: **DANGER**





Degree of Hazard:



Precautionary Statements:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe vapours.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P273 Avoid release to the environment.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P363 Wash contaminated clothing before reuse.
- P310 Immediately call a POISON CENTRE or doctor/physician.
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310 - Immediately call a POISON CENTRE or doctor/physician.

P391 - Collect spillage.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
sodium hypochlorite	7681-52-9	3-7%
sodium hydroxide	1310-73-2	1-2.5%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid facilities:	Ready access to running water is required. Accessible eyewash is required.	
Exposure		
Swallowed:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor. If conscious, give plenty of water to drink. Contact the	
Eye contact:	National Poisons Centre or a Doctor immediately. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Apply continuous irrigation with	
	water for at least 15 minutes holding eyelids apart. Immediately call a POISON CENTER or doctor/physician.	
Skin contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.	
Inhaled:	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.	

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and Explosion Hazards: There are no specific risks for fire/explosion for this chemical. It is non-flammable. Suitable Extinguishing Substances: Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet

or alcohol resistant foam.

Unknown.

Unsuitable Extinguishing Substances:

Protective Equipment:

No special measures are required.

Danger caused by material, its combustion products or gases produced:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and

other low-lying spaces, forming potentially explosive mixtures.

Hazchem Code: 2X

6. Accidental Release Measures

Containment: If greater than >1000kg is stored, secondary containment and emergency plans to

manage any potential spills must be in place. In all cases design storage to

prevent discharge to storm water.

Emergency procedures: If a significant spill occurs: Stop leak if safe/necessary; Isolate area. Collect spill –

see below; Transfer to container for disposal. Dispose of according to guidelines

below (Section 13).

Clean-up method: Use absorbent (soil, sand or other inert material). Rags are not recommended for

the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Disposal: Mop up and collect recoverable material into labelled containers for recycling or

salvage. Recycle containers wherever possible. This material may be suitable for

approved landfill. Dispose of only in accord with all regulations.

Precautions: No special protective clothing is normally necessary.

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7. Storage and Handling

Storage: Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as

listed in Section 10. Store locked up.

Handling: Keep exposure to a minimum, and minimise the quantities kept in work areas.

See section 8 with regard to personal protective equipment requirements.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established

orng/m for respirable particulates and romg/m for initialable particulates when limits have not otherwise been established.			
NZ Workplace	Ingredient	WES-TWA	WES-STEL
Exposure Standards (2016):	sodium hypochlorite sodium hydroxide	data unavailable Ceiling 2 mg/m ³	data unavailable data unavailable

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes:



Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses.

Skin:



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

Respiratory:

A respirator when airborne concentrations approach the WES (section 8). Use a Multi Gas & Vapor Respirator. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance: clear viscous liquid, pale yellow

Odour: bleach odour

pH: ~13
Vapour Pressure: no data
Boiling Point: no data
Volatile Materials: no data
Softening/Melting Point: no data

Solubility: soluble in water

Specific Gravity or Density:

Flash Point:

Danger of Explosion:

Auto-Ignition Temperature:

Upper and Lower Flammable Limits:

Corrosive

1.1g/cm³

no data

not explosive

no data

Corrosive

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10. Stability & Reactivity

Stability: Stable

Conditions to be avoided: Containers should be kept closed in order to avoid contamination. Keep from

extreme heat and open flames.

Incompatible Materials: Other drain cleaners, including other Liquid Plumr® products, Strong acids,

strong bases, oxidising agents, e.g. hydrogen peroxide. Quaternay ammonium

chlorides. Organic compounds. Reducing agents.

Hazardous Decomposition Products: Carbon oxides, chlorine gas

Hazardous Reactions: May react with other drain cleaners, including other Liquid-Plumr® products, to

produce hazardous gases, may be violent and give off toxic gases (chlorine).

11. Toxicological Information

Summary

IF SWALLOWED: may cause damage to the gastrointestinal tract and nausea, vomiting and abdominal pain.

IF IN EYES: will irritate the eyes with stinging and redness. If left in eye contact can cause burns to the eye with possible eye damage.

IF ON SKIN: may cause the skin burns.

IF INHALED: vapours can cause irritation of the upper respiratory tract causing coughing and/or shortness of breath. Higher concentrations can cause build up of fluid in the lungs. Exposure may also cause headaches, dizziness, nausea and vomiting.

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Acute:	Orai:	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is $>5,000$
		mg/kg. Data considered includes: Sodium Hypochlorite 5800mg/kg (mouse).

Dermal: No evidence of dermal toxicity.

Inhaled: This mixture is not considered acutely toxic by inhalation, however inhalation of aerosol of sodium hypochlorite may cause lung oedema. The effects may be

delayed. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort.

Eye: The mixture is considered to be corrosive to the eye, because Sodium hypochlorite

present at >3% are considered eye corrosives.

Skin: The mixture is considered to be a skin corrosive. Sodium hypochlorite and sodium

hydroxide are skin corrosives.

Chronic: Sensitisation: No ingredient present at concentrations > 0.1% is considered a sensitizer.

Mutagenicity: No ingredient present at concentrations > 0.1% is considered a mutagen.

Carcinogenicity: No ingredient present at concentrations > 0.1% is considered a carcinogen.

Reproductive / No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental: developmental toxicant or have any effects on or via lactation.

Systemic: No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known. Existing Conditions:

12. Ecological Data

Summary

This mixture is considered toxic in the aquatic environment.

Supporting Data

Aquatic: Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 mg/L

and 10 mg/L. Data considered includes: Sodium Hypochlorite 0.065 mg/l (96hr, fish), 0.032 mg/l (48hr, Daphnia magna), 46 mg/l (96hr, red algae), sodium hydroxide 45.4

mg/l (96hr, fish), 40.38 mg/l (48hr, water flea).

Bioaccumulation: No data
Degradability: No data
Soil: No data

Terrestrial vertebrate: This product is not considered ecotoxic towards terrestrial vertebrates.

Terrestrial invertebrate: No evidence of ecotoxicity towards terrestrial invertebrates.

Biocidal: no data

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13. Disposal Considerations

Restrictions: There are no product-specific restrictions, however, local council and resource

consent conditions may apply, including requirements of trade waste consents.

Disposal Method:

Disposal Method:

Disposal of this product must comply with the Hazardous Substances (Disposal)

Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be

treated and therefore rendered non-hazardous before discharge to the environment. Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is renedered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If

possible reuse or recycle packaging.

14. Transport Information

Contaminated Packaging:

There are no specific restrictions for this product (not a dangerous good)

There are no openio restrictions for this product (not a dangerous good).			
UN Number:	1760	Proper Shipping Name:	CORROSIVE LIQUID, N.O.S.
			(contains sodium hypochlorite)
Class(es):	8	Packing Group:	III
Precautions:	Corrosive liquid	HAZCHEM Code:	2X
	Marine pollutant		

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002526, Cleaning Products (Corrosive) Group Standard 2017.

Specific Controls

Key requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 1000L is stored.

Certified handler Not required.
Tracking Not required.

Bunding & secondary containment Required if > 1000L is stored. Signage Required if > 1000L is stored.

Location compliance certificate Not required.
Flammable zone Not required.
Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for

a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations		
Approval Code:	Approval HSR002526, Cleaning Product (Corrosive) Group Standard 2017 Controls, EPA. www.epa.govt.nz	
CAS Number	Unique Chemical Abstracts Service Registry Number	
Ceiling	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.	
Controls Matrix	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).	
EC ₅₀	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)	
EPA	Environmental Protection Authority (New Zealand)	
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters	
HSNO	Hazardous Substances and New Organisms (Act and Regulations)	
IARC	International Agency for Research on Cancer	
LEL	Lower Explosive Limit	

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LD ₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).	
LC ₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test	
	population (usually rats)	
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)	
PES	Prescribed Exposure Standard means a WES or a biological exposure standard that	
	is prescribed in a regulation, a safe work instrument or an approval under HSNO	
	(including group standards).	
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or	
	biological agent to which a worker may be exposed in any 15 minute period, provided	
	the TWA is not exceeded	
TWA	Time Weighted Average – generally referred to WES averaged over typical work day	
	(usually 8 hours)	
UEL	Upper Explosive Limit	
UN Number	United Nations Number	
WES	Workplace Exposure Standard - The airborne concentration of a biological or	
	chemical agent to which a worker may be exposed during work hours (usually 8	
	hours, 5 days a week). The WES relates to exposure that has been measured by	
	personal monitoring using procedures that gather air samples in the worker's	
	breathing zone.	
References		
Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).	
	EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)	
Controls	Regulations 2017, www.legislation.govt.nz	
WES 2016	The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe	
	NZ and available on their web site – www.worksafe.govt.nz.	
Other References:	Suppliers SDS	
Review		
Date	Reason for review	
March 2018	Not applicable: new SDS	
Disclaimer		
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This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The graph on the first page of the SDS gives you an immediate idea of the type and severity of hazard that the chemical may pose. These ratings, and the likely HSNO classifications, are based on our experience, EPA Guidelines and international classifications. To contact the SDS author, email Datachem info@datachem.co.nz or phone: (09) 940 30 80.

