

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Concentration %
Sodium Hypochlorite	7681-52-9	<5
Other Ingredients – Non-Hazardous		Level

4. FIRST AID MEASURES

Ingestion	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor, or physician. Get medical attention or advice if you feel unwell.
Eye contact	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes.
Skin contact	Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor, or physician.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell

Poison Information Centre: Call 0800 764 766 (0800 POISON)

5. FIRE FIGHTING MEASURE

Suitable extinguishing media:	Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam. Keep containers cool and protect exposed material. If a leak or spill has not ignited, water spray may be used to flush spills away from exposures
Unsuitable extinguishing media:	None known.
Specific hazards during firefighting:	Not combustible. However, following evaporation of aqueous component, residual material can burn if ignited. While burning, it will emit toxic fumes including carbon monoxide and carbon dioxide.
Hazardous combustion products:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides
Special protective equipment for firefighters:	Use personal protective equipment. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion as well as structural fire fighter's uniform.
Specific extinguishing methods:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes

6. ACCIDENTAL RELEASE MEASURES

Emergency Precautions:	Personal precautions, protective equipment and emergency procedures Wear suitable protective clothing, gloves, and eye/face protection. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it may slippery. Environmental precautions: Do not allow to enter drainage system, surface, or ground water. Dilute with plenty of water. Advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment. Methods and material for containment and cleaning up Use neutralising agent. Absorb onto dry sand or similar inert material.
Environmental precautions:	Do not allow to enter drainage system, surface, or ground water. Dilute with plenty of water. Advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Methods and Materials for Containment and Clean Up:

Soak up spilled product using absorbent, non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, labelled, dry, sealable containers and hold for safe disposal. Once pick-up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for treatment/disposal.

7. HANDLING AND STORAGE

Advice on safe handling:	Wash hands thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Empty containers retain product and residue (liquid or vapour) and can be dangerous. Keep container tightly closed. Always wash hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Do not dispose of material to sewers or waterways.
Advice on general occupational hygiene:	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink, and animal feeding stuffs. Wash hands before breaks and at the end of workday. Wash face, hands, and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Use only with adequate ventilation.
Conditions for safe storage:	Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
Storage temperature:	0 °C to 50 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards:	The Occupational Safety and Health Service, NZ Department of Labour have set no Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES) for this substance. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section. Recommended safety measures for handling the undiluted products.
Appropriate engineering controls:	Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.
Appropriate organisational controls:	Avoid direct contact and/or splashes where possible. Train personnel.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:	Where concentration in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.
Eye Protection:	Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.
Skin/Hand Protection:	Always wear long sleeves and long trousers or coveralls, enclosed footwear or safety boots and chemical resistant gloves when manufacturing this product. Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the glove's supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for

prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min
Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm in consultation with the supplier of protective gloves a different type providing similar protection maybe chosen.

Body protection:

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear / Light Yellow
Physical State:	Liquid
Odour:	Chlorine
Odour Threshold	Not Determined
pH:	13.0 ± 0.5
Solubility:	Soluble in water
Vapor Density:	no data available
Boiling point:	>100 deg
Freezing Point:	no data available
Ignition Point:	no data available
Flash Point:	no data available
Specific Gravity:	1.0900 Approx
Vapor pressure:	no data available
% Volatilities	no data available
Flammability	Not Determined
UEL/LEL	Not Determined
Partition Coefficient	Not Determined
Auto Ignition Temperature	Not Determined
Decomposition Temperature	Not Determined
Kinematic Velocity	Not Determined
Particle Characteristics	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:	No reactivity hazards known under normal storage and use conditions. Stable at room temperature and pressure.
Conditions to avoid:	Avoid excessive heat, direct sunlight, moisture, high temperatures. No hazardous reactions known under normal storage and use conditions.
Incompatible Materials:	Incompatible with oxidizing agents, acidic agents, including acidic clays and sources of Ignition. Reacts with acids.
Hazardous decomposition:	When involved in a fire, this product will generate carbon monoxide.
Hazardous reactions:	Oxidizing agents, mineral acids, halogenated organic compounds

11. TOXICOLOGICAL INFORMATION

Mixture data:

No adverse health effects expected if the product is handled in accordance with the safety data sheet. Symptoms or effects that may arise if the product is mishandled and the overexposure occurs are:

Acute Effects

Eyes:	Causes serious eye irritation / damage
Skin:	This product is irritating to skin.

Ingestion:	Small amounts of liquid aspirated into lungs during ingestion, or from vomiting. Ingestion of large amounts of this product will result in headaches, nausea, dizziness, and tracheal burning.
Inhalation:	Irritating to respiratory tract. Exposure to high concentrations over an extended period may result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.
Exposure:	Health injuries are not known or expected under normal use.

12. ECOLOGICAL INFORMATION

Persistence/degradability:	The substance is aerobically biodegradable and anaerobically biodegradable.
Mobility:	No data available for this product.
Toxicity -Environmental Effects:	Harmful to aquatic life. Avoid contaminating water ways.
Other adverse effects:	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:	Do not contaminate storm water drains, natural waterways, or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of in accordance with local and national regulations.
Disposal considerations:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

Road and Rail Transport:	Not classified as Dangerous Goods by the criteria of New Zealand Dangerous Goods Code for transport by road and rail.
Marine Transport:	Not classified as Dangerous Goods by the criteria of international Maritime Dangerous Goods Code for transport by sea.
Air Transport:	Not classified as Dangerous Goods by the criteria of international Association Dangerous Goods Regulations for transport by air.
Special precautions for user:	None
IMAGE / PICTOGRAM:	Not Applicable
Shipping Name:	Not Applicable
Hazard Class:	Not Applicable
UN Number:	Not Applicable
Packing Group:	Not Applicable
Hazchem Code:	Not Applicable
MO/IMDG:	Not Applicable

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture

HSNO Approval No:	HSR002526
Group Standard:	Cleaning Products (Corrosive Hazard) Group Standard 2020
Inventory Listing(s):	New Zealand: NZIoC (New Zealand Inventory of Chemicals)

All components are listed on the NZIoC inventory or are exempt.

16. OTHER INFORMATION

HSNO Classification: 6.3A, 8.3A.

Date of Preparation: 09/09/2025

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

New Zealand National Poison Information Centre: 0800 764 766

New Zealand Emergency Services: 111

Advance International Cleaning Systems (NZ) Limited: +64 9 525 3792

Every endeavour has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for uses is beyond our control. The information is not intended as an inducement to bargain, and no warranty expressed or implied is made as to its accuracy, reliability or completeness.

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End of Safety Data Sheet