



Section 1: Identification of the Substance/Mixture and of Supplier

Product name	“LIQUID CHLORINE” “LIQUID CHLOR SAN” Sodium Hypochlorite 15%+
Recommended use:	Water sanitizer
Supplier:	Space Industries Limited
Street Address:	160 Plunket Ave, Wiri, Auckland New Zealand
Telephone Number:	+ 64 9 262 3902
Facsimile:	+ 64 9 262 3948
E-mail:	orders@spaceindustries.co.nz
Website:	www.spaceindustries.co.nz
Emergency Telephone	0800 764 766 (all hours)
Date of preparation:	May 2023

Section 2: Hazards Identification

Hazard Classification:	Hazardous according to the criteria or the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
SIGNAL WORD:	Danger
Subclasses:	Substances that are corrosive to dermal tissue – Category 1C Substances that are corrosive to ocular tissue – Category 1 Substances that are ecotoxic in the aquatic environment Category 2
HSNO Approval Code:	HSR002681
	 
Hazard Statements:	H314 Causes severe skin burns and eye damage H411 Toxic to aquatic life with long lasting effects
Precautionary Statements:	P102 Keep out of reach of children P103 Read Label before use
Prevention:	P260 Do not breathe mist or vapours P264 Wash hands thoroughly after handling P280 Wear protective clothes/gloves, and eye/face protection P273 Avoid release into the environment
Response:	P301+P330+P331 IF SWALLOWED – Rinse mouth. Do NOT induce vomiting

	<p>P303+P361+P353 IF ON SKIN – Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse P304+P340 IF INHALED – Remove to fresh air and keep at rest in a position comfortable for breathing P310 Immediately call POISON CENTRE / Physician P305+P351+P338 IF IN EYES – Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P391 Collect spillage.</p>
Storage	Store securely in original container
Disposal	P501 dispose of empty container at an approved dangerous goods facility

Section 3: Composition/information on ingredients

Product Description:	Swimming Pool Water Sanitizer Pale yellow Liquid with a slight chlorine odour	
Components / CAS Number	Proportion	Risk Phrases
Sodium Hypochlorite 7681-52-9	>15-20% concentration	R34, R41, R51/53

Section 4: First Aid Measures

Show this Safety Data Sheet to a Doctor

Short term exposure by all routes is considered to be harmful.

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call the Poison Centre (0800 764 766) or a Doctor
Skin Contact:	Remove/take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion:	If swallowed - Rinse mouth. DO NOT induce vomiting. Give a glass of water. Contact a Doctor or the Poisons Information Centre (0800 764 766) for further advice
Notes to physician:	If swallowed - causes severe burning and corrosion to the mucous membranes and tissues of the mouth, throat and stomach. Corrosive to eyes. Can cause corneal burns. Skin contact will cause moderate irritation. Corrosive on contact with moist skin and will cause burns. If inhaled – mist vapour can produce respiratory irritation and may cause damage of the upper respiratory tract and lung tissues.
For advice, contact the Poisons Information Centre 0800 764 766 or a doctor	

Section 5: Fire Fighting Measures

Specific Hazards:	Non combustible
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Suitable Extinguishing Media:	Not combustible, however, if material is involved in a fire use Water fog (or if not available, fine water spray), foam, dry agent (carbon dioxide, dry chemical powder)
Fire-fighting advice:	Decomposes on heating emitting toxic fumes, including those of chlorine. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition
Hazchem Code:	2 (R)

Section 6: Accidental Release Measures

Procedures to be covered:	<p>Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency.</p> <p>Slippery when wet. Clean up immediately. Wash area down with excess water</p> <p>Wear protective equipment to prevent skin and eye contact and breathing in vapours.</p> <p>Work up wind or increase ventilation.</p> <p>Prevent run offs into drains and waterways. Use absorbent (sand or other inert material).</p> <p>Collect in properly labeled containers for disposal.</p>
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Section 7: Handling and Storage

Handling:	<p>Avoid skin and eye contact.</p> <p>Keep out of reach of children.</p>
Storage:	<p>Store locked up.</p> <p>Store in a cool place out of direct sunlight.</p> <p>Store away from incompatible materials described in Section 10.</p> <p>Keep containers closed when not in use.</p> <p>Check regularly for spills.</p>

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:	No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).
Engineering Control Measures:	Use in a well ventilated area.
Personal Protective Equipment:	<p>Wear full protective clothing to avoid splashes.</p> <p>As product can cause eye irritation, safety glasses or goggles must be worn.</p> <p>The use of rubber gloves is recommended.</p> <p>Wash contaminated clothing and other protective equipment before storage or re-use.</p>

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Colour:	Pale yellow
Odour:	Slight Chlorine
Solubility:	Miscible in water
Specific Gravity/Bulk Density:	1.24 @ 20°C
pH 1% w/v:	12.5
Strength:	13% w/v free available chlorine

Section 10: Stability and Reactivity

Stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid:	None known.
Incompatible materials:	Incompatible with acids, metals, metal salts, peroxides, reducing agents, and ethylene, diamine tetraacetic acid.
Hazardous decomposition products:	Chlorine. None known.
Hazardous reactions:	

Section 11: Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	If swallowed - causes severe burning and corrosion to the mucous membranes and tissues of the mouth, throat and stomach.
Eye contact:	Corrosive to eyes. Can cause corneal burns.
Skin contact:	Skin contact will cause moderate irritation. Corrosive on contact with moist skin and will cause burns.
Inhalation:	If inhaled – mist vapour can produce respiratory irritation and may cause damage of the upper respiratory tract and lung tissues.
Long term effects:	No information available
Toxicological Data:	No information available.

Section 12: Ecological Information

Environmental fate, Persistence and degradation:	Avoid contaminating waterways. This material is biodegradable.
Aquatic toxicity:	Very toxic to aquatic organisms. Fish, crustacean & algal
Terrestrial toxicity:	Expected to be harmful to terrestrial species

Section 13: Disposal Considerations

Refer to Waste Management Authority.
Dispose of material through a licensed waste contractor.
Flush to drain with large quantities of water.

Section 14: Transport Information

Road and Rail Transport:	Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.
UN No:	1791
Class-primary	8 Corrosive
Packing Group:	III
Proper Shipping Name:	
Name:	Hypochlorite solution
Hazchem Code:	2X

Marine Transport:	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS
UN No:	1791
Class-primary	8 Corrosive
Packing Group:	III
Proper Shipping Name	Hypochlorite solution

Section 15: Regulatory Information

HSNO APPROVAL No: Water Treatment Chemicals (Corrosive) Group Standard 2017 - HSR002681

Hazard Classification: 8.2C , 8.3A , 9.1B (A), 9.1B (All), 9.1B (C), 9.1B (F)

Section 16: Other Information

.Issue Date: May 2023

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