

MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product name: **SODIUM HYPOCHLORITE**
Other names: Liquid chlorine, crystal water
Recommended Use: Laundry, water sanitizer.
Supplier: Tradextra Ltd
Address: 3 Glenmore Drive, Warkworth 0910
PO Box 437, Warkworth 0941
Telephone: (+64) 9 425 0235
Facsimile: (+64) 9 425 0236
Website: www.tradextra.co.nz
Emergency phone: **National Poison Centre**
0800 764 766

SECTION 2: HAZARD(S) IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications 8.2C, 8.3A, 9.1B (A), 9.1B (All),
9.1B (C), 9.1B (F)
Signal Word DANGER

Hazard Statements:
H225 Highly flammable liquid and vapour
H303 May be harmful if swallowed

H316 Causes mild skin irritation
H320 Causes eye irritation

Precautions Statements:

P102 Keep out of reach of children
P233 Keep container tightly closed
P103 Read label before use
P240 Ground container and receiving equipment
P264 Wash hands thoroughly after handling
P273 Avoid release to the environment
P233 Keep container tightly closed

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P241 Use explosion-proof equipment
P242 Use non-sparking tools
P243 Take precautionary measures against static discharge
P280 Wear protective clothing, gloves and eye protection

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS no.	Proportion (%)
Water	7732-15-5	60
Sodium Hypochlorite	7681-52-9	15-20

SECTION 4: FIRST-AID MEASURES

For advice, contact National Poison Centre (0800 POISON; 0800 764 766) or a doctor. Have product container or label available.

Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.

Skin Contact

if skin or hair contact occurs, remove contaminated clothing and wash affected area with soap and water. If irritation persists, get medical attention.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes and continue rinsing. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if symptoms continue. Begin artificial respiration if breathing has stopped. Get immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers close to areas where splashing may occur.

Medical Attention

Treat according to symptoms. Gastric lavage may be indicated if ingested. Any product aspirated during vomiting may produce lung injury.

SECTION 5: FIRE-FIGHTING MEASURES

Flashpoint: n/a

Flammable Limits: n/a

Extinguishing media: Not combustible. However, use water fog, foam, dry chemical powder if needed.

Fire & Explosion Hazards: Non-combustible.

Firefighting Equipment: Suitable clothing and self-contained breathing apparatus (SCBA).

In event of fire:

- Alert Fire Station (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves
- Shut off product that may 'fuel' a fire if safe to do so.
- If safe, switch off electrical equipment until vapour hazard removed.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

Hazards from combustion products: Carbon Dioxide, Carbon Monoxide.

Hazchem code: 2 (R)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures & containment: refer to 'Fire Fighting Measures,' 'First Aid Measures' and 'Stability and Reactivity.'

Minor spills

- Remove or eliminate all ignition sources.
- Clean up spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labelled container suitable for flammables.
- Seal container and dispose of safely.

Major spills

- Clear area of personnel and move upwind.

- Alert Fire Station (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves.
- Stop leak of safe to do so.
- Contain spill with sand, earth or vermiculite.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Eliminate sources of ignition, naked lights. No smoking.
- Increase ventilation.
- Water spray or fog may be used to disperse/absorb vapour.
- Use only spark-proof tools, e.g. shovels, and explosion proof equipment, e.g. pumps.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handlings: Avoid skin and eye contact. Keep out of reach of children.

Conditions for safe storage: Locked up in original packaging in a cool, dry, well-ventilated place away from direct sunlight. Check containers periodically for leaks or distortion.

Incompatible materials: N/A

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Health Exposure Standards: No value assigned by OSH.

Biological limit values: None established.

Engineering controls: Ventilation – Use product outdoors or in a well-ventilated area.

Personal Protective Equipment:

Respiratory Protection – Where air concentration may exceed the limits described in the Workplace Exposure Standards, wear SAA approved respiratory protection such as a half-face filter mask to protect from overexposure by inhalation. A type “A” filter material is considered

suitable for this product.

Eye Protection – protect eyes from splashes or vapour. Always use safety glasses with side shields or goggles are worn.

Skin / Body Protection – Gloves are recommended to prevent irritant effects and avoid degreasing/drying of the skin. Prevent contact with clothes and skin, e.g. wear apron or overalls.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical value
Appearance	-	Pale yellow liquid
Odour	-	Slight chlorine
Specific gravity @ 20°C	g/ml	1.24
Alkalinity/acidity (as pH)	1% w/v	12.5
Solubility in Water	% w/w	Miscible
Strength	% w/v	13% free available chlorine

The values listed are indicative of this product's physical and chemical properties.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid: None known.

Incompatible materials: acids, metals, metal salts, peroxides, reducing agents, ethylene and diamine tetraacetic acid.

Hazardous decomposition products: Chlorine.

Hazardous reactions: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Ingestion – Will be harmful 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 – is irritating to the skin with short term contact. Corrosive on contact with moist skin and will cause burns.

Inhalation – Vapours may be irritating to nose and throat. May damage upper respiratory tract and lung tissues.

Chronic Effects: N/A

Other Health Effects Information: N/A.

Toxicological Information: N/A.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity – Very toxic to aquatic organisms such as fish, crustacean and algal.

Persistence/degradability – Avoid contaminating waterways.

Mobility – It is biodegradable.

Environmental Exposure Standards:

EEL (water) Not set

EEL (soil) Not set

EEL (sediments) Not set

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain vapours that are flammable. Ensure that empty packaging is allowed to dry. If not recycled, puncture and crush before disposal to landfill. Do not use container for storage of other products. Flush to drain with large quantities of water.

SECTION 14: TRANSPORT INFORMATION

UN number: 1791

Shipping name: HYPOCHLORITE SOLUTION

Class: 8 - corrosive

Packing Group: III

Hazchem code: 2 (R)

Dangerous Goods Segregation – This product is classified as Dangerous Goods Class 3, packing group III. Please consult NZS 5433:1999 Transport of Dangerous Goods on Land for information.

SECTION 15: REGULATORY INFORMATION

Country / Region: New Zealand

Inventory: NZCIL

Status: Listed

ERMA New Zealand Approval Code: Solvents (Corrosive);
HYPOCHLORITE SOLUTION.

SECTION 16: ANY OTHER RELEVANT INFORMATION

Date of issue: 10th June 2022

Reasons for issue: 5 Year Review

Abbreviations:

CAS No	Chemical Abstracts Number
EPA/ ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substances and New Organisms
NZCI	New Zealand Chemical Inventory
STEL	Short Term Exposure Limit
TWA	Time Weighted Average

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but it is no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Tradextra Ltd.

END OF SAFETY DATA SHEET