

SAFETY DATA SHEET

Product Name: Sodium hypochlorite 10-15% solution

Issue Date: 12/01/2018

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	Sodium hypochlorite 10-15% solution
Relevant identified uses:	Cleaning product containing 10-15% Sodium hypochlorite
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited / IXOM Operations Pty Ltd
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand / 166 Totara Street, Mt Maunganui South, New Zealand.
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz
Website:	www.kiwicare.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON) / 0800 734 607 (ALL HOURS)
National Poisons Centre:	0800 764 766 (0800 POISON)

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2. HAZARDS IDENTIFICATION

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
8.2B			Danger	H314	P102 ^b P103 ^b P260 P264 P280	P101 ^b P301 + P330 + P331 P303 + P361 + P353 P363 P304 + P340	P405	P501
8.3A	Not applicable for the UN RTDG Model Regulations		Danger	H318	P102 ^b P103 ^b P280	P101 ^b P305 + P351 + P338 P310	No storage statements	P501
9.1D	Not applicable for the UN RTDG Model Regulations	No Pictogram	No Signal Word	H401 ^P /H402 ^P / H413 ^P	P103 ^b P273	No response statements	No storage statements	P501

Dangerous Goods:

Class 8, signal word = Danger

Packaging Group:

III

Hazardous Substance (HSNO) Codes:

8.2B (Skin corrosive)

8.3A (Eye corrosive)

9.1D (Slightly harmful to the aquatic environment)

Hazard Statement:

H314: Causes severe skin burns.

H318: Causes serious eye damage.

H413: Slightly harmful to aquatic life.

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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/spray.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P310: Immediately call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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.

P305+351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use:

Water treatment: Sanitising agent.

Appearance:

Pale yellow liquid

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Ingredients

Ingredients	CAS #	Content %
Water	7732-18-5	>60 %
Sodium hypochlorite	7681-52-9	10-<30%
Sodium Hydroxide	1310-73-2	<1 %

4. FIRST AID MEASURES

General information:	In case of accident, or if you feel unwell, seek medical advice (show the label where possible).
Ingestion:	Rinse mouth. Do NOT induce vomiting. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Eye Contact:	Potentially cause eye corrosion. Rinse opened eye for several minutes under running water for 15 minutes. If irritation persists seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Skin Contact:	Potentially cause skin corrosion. Immediately take off all contaminated clothing. Rinse skin with copious amounts of water and wash with soap and water. If you feel unwell seek immediate medical advice.
Inhalation:	If symptoms develop move the exposed person to fresh air. Immediately obtain medical advice. Unlikely to present an inhalation hazard as the product is a stable liquid. If breathing problems develop, seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Advice for Medical Doctors:	Treat symptomatically. Call a doctor or poison control centre for guidance, or call NZ Poisons Centre on 0800 764 766.

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5. FIRE FIGHTING MEASURES

Specific Hazards:	Non-combustible material.
Suitable Extinguishing Media:	Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away and move all other personnel to windward side of fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.
Minor Spills (Up to 20 kg):	Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer.
Major Spills (more than 20 kg):	Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Contaminated absorbent and wash water should be disposed of according to local and national regulations. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

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6. ACCIDENTAL RELEASE MEASURES

Additional information	Floors will become slippery. Vigorous flushing may generate copious foam. Must not be released into sewers, drains or wells. Personnel involved in clean-up require adequate respiratory, skin and eye protection in case of large spillage. Cleaning of Equipment: Clean with water.
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7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children. Read the label before use.
Conditions for safe Storage including incompatibilities:	Store in a cool, dry, well ventilated place. Store away from foodstuffs. Store away from acids. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.
Protection against fire and explosion:	Keep away from heat sources even though the product is not combustible. Avoid elevated temperatures. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 8 th edition)
Hand protection:	Suitable chemical resistant gloves are recommended for applicants. See picture below.
Eye protection:	Wear safety glasses or full face shield if splashes are likely to occur. See picture below.
Body protection:	Body protection must be chosen depending on activity and possible exposure, for example apron, protecting boots. Skin protection not ordinarily required beyond standard issue work clothes. It is good practice to wear chemical resistant gloves. See picture below.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

General safety and hygiene measures:

Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Store work clothing separately.

Environmental Exposure Controls:

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.



A Substance	CAS #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Sodium hydroxide	[1310-73-2]		Ceiling 2		
Chlorine	[7782-50-5]	0.5	1.5	1	2.9

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Pale yellow Liquid with chlorine odour
Solubility:	Soluble in water
Specific Gravity:	1.20 (20°C, g/ml)
Boiling Point:	~ 100 °C
Flash Point:	>93 °C
pH Value:	12.5 (1% solution)
Evaporation Rate:	NA
Formula:	Mixture
Chemical Family:	Cleaning substance; inorganic base and inorganic oxidant as the A.I.
Exposure Standards (TLV-TW):	Refer to section 8
Engineering Controls:	Refer to section 8

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Contact with acids liberates toxic gas.
Incompatibility or conditions to be avoid:	Incompatible with acids, metals, metal salts, peroxides, reducing agents, and ethylene diamine tetra acetic acid. Incompatible with ammonia and ammonium compounds such as amines and ammonium salts.
Corrosive Properties:	Potentially corrosive to skin and eyes.
Thermal Decomposition:	Chloride to be generated.

11. TOXICOLOGICAL INFORMATION

The relevant toxicity on ingredient:

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11. TOXICOLOGICAL INFORMATION

SODIUM HYPOCHLORITE: (7681-52-9): Oral LD50 (mice): 5800 mg/kg

For the substance (final product):

Skin corrosion/irritation:	HSNO classification 8.2B or GHS H314, Causes skin corrosion.
Serious eye damage/eye irritation:	HSNO 8.3A or GHS H318; cause eye damage.
Respiratory or skin sensitization:	Not a respiratory sensitizer.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductivity:	Not reproductive.
Acute Toxicity:	Acute oral LD ₅₀ > 5000 mg/kg; acute dermal LD ₅₀ > 5000 mg/kg (calculated).
Chronic Toxicity:	No chronic toxicity.

12. ECOTOXICITY INFORMATION

Ecological information:	HSNO 9.1D or GHS 413; Slightly harmful in the aquatic environment.
Persistence / degradability:	Biodegradable
Mobility:	Water: completely soluble
Soil Toxicity:	No soil toxicity.
Toxicity data:	96hr LC50 (fish): 0.065 mg/L (for sodium hypochlorite)

The substance triggers HSNO class 9.1D classification. In addition, as the product label indicated that this product is not allowed or washings to enter the waterways or sewer and other appropriate controls. Therefore it is highly unlikely to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

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13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	In the case of a substance that is in compliance with a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. Disposal requirements for class 8 & 9 – dispose of the substance in a landfill, incinerator, or a sewage facility if the landfill, incinerator, or sewage facility will treat the substance by changing the characteristics or composition of the substance so that the substance is no longer a hazardous substance.
Container Disposal:	Empty containers can be sent to landfill after cleaning if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Road, Rail, Marine and Air

UN Number:	1791
Dangerous Goods Class:	8 corrosive (ADR/RID; IMDG; IATA/ICAO)
Hazchem Code:	2X
Packaging Group:	II
Proper Shipping Name:	HYPOCHLORITE SOLUTION

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR002681
HSNO Classifications:	8.2B, 8.3A, 9.1D
HSNO Controls:	Refer to Water Treatment Chemicals (Corrosive) Group Standard 2006 HSR002681

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15. N.Z. REGULATORY INFORMATION

HSNO Approved codes of Practice: Refer to Water Treatment Chemicals (Corrosive)
Group Standard 2006 HSR002681

To avoid risks to man and the environment, comply with the instructions for use.

This information should be considered when making any hazard assessment.

Classification and labelling according to Regulation:

(EC) No 1272/2008 [EU-GHS/CLP]

16. OTHER INFORMATION

SDS date of preparation:	30 / 05 / 2017
SDS date of revision:	30 / 05 / 2022
Emergency Contact	24 Hours
Work Hours	National Poisons Centre
Kiwicare Corporation	PO Box 913
225 Maces Road	Dunedin
PO Box 15050	Tel: 0800 764 766 (POISON)
Christchurch	
Tel: (03) 389 0778	
Fax: (03) 389 0669	

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16. OTHER INFORMATION

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the original manufacturer of the substance.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

CLP: Classification, Labelling and Packaging

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase

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