

Safety Data Sheet

Section 1: Identification of the Substance and the Supplier.

Product Name: **Sodium Hypochlorite**
Recommended use: Bleach/Sanitiser
Company details: Stratacote Surface Protection
Address: 76B Bremners Road, Ashburton
Telephone number: 021 280 2158
Email: info@stratacote.co.nz
Emergency Phone No: 0800 243 622 (0800 CHEMCALL) for out of hours advice

Section 2: Hazards identification

ERMA NZ Approval: HSR 004692 Sodium Hypochlorite >5-25% in a non hazardous diluent

SIGNAL WORD: Danger

HSNO classifications: 8.2 C Causes severe skin burns and eye damage
 8.3 A Causes serious eye damage
 9.1 B Harmful to aquatic life

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Hazard Statement(s):

H314 – Causes severe skin burns and eye damage.
 H318 – Causes serious eye damage.
 H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P102 – Keep out of reach of children.
 P103 – Read label before use.
 P260 – Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 – Wash hands thoroughly after handling.
 P273 – Avoid release to the environment.

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

Response:

P101 – If medical advice is needed, have product container or label at hand.

P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 – IF ON SKIN (or hair): Remove/take off immediately contaminated clothing. Rinse skin with water/shower.

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 so. Continue rinsing.

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

P321 – Specific treatment: Consider oral administration of sodium thiosulfate solutions if sodium hypochlorite is ingested. Do not administer neutralizing substances since the resultant exothermic reaction could further damage tissue.

Endotracheal intubation could be needed if glottic oedema compromises the airway.

For individuals with significant inhalation exposure, monitor arterial blood gases and chest x-ray.

P363 – Wash contaminated clothing before reuse.

P391 – Collect spillage.

Storage:

P405 – Store locked up.

Disposal:

P501 – Dispose of the product and packaging at an approved landfill or other approved facility. Avoid contamination of waterways. Do not use container for any other purpose.

Section 3: Information on Ingredients

Components	CAS Number	Proportion
Sodium Hypochlorite	7681-52-9	10-17 % w/v
Water	-	Balance to 100%

Section 4: First Aid Measures

First Aid: Call a Doctor or National Poisons Centre 0800 POISON (0800 764 766) following first aid treatment.

Skin Contact: Rinse skin with plenty of water. Remove contaminated clothing and wash before re-use.

Eye Contact: Rinse with water for several minutes, remove contact lenses if present and easy to do, continue rinsing.

IMMEDIATELY seek medical attention.

Ingestion: Rinse mouth, do **NOT** induce vomiting.

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IMMEDIATELY call a POISONS CENTRE or doctor.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Medical attention and special treatment:

Consider oral administration of sodium thiosulfate solutions if sodium hypochlorite is ingested. Do not administer neutralizing substances since the resultant exothermic reaction could further damage tissue. Endotracheal intubation could be needed if glottic oedema compromises the airway. For individuals with significant inhalation exposure, monitor arterial blood gases and chest x-ray. Capable of causing corneal burns

Section 5: Fire Fighting Measures

Hazards from combustion products: Not considered to be a fire hazard. Substance releases oxygen when heated, which may increase the severity of an existing fire. Containers may rupture from pressure build-up. Toxic chlorine gas evolves when heated.

Precautions for fire fighters and special protective equipment: Wear self-contained breathing apparatus and protective clothing when in confined spaces

Suitable extinguishing media: Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire-exposed containers, to dilute liquid, and control vapour.

Hazchem: 2R

Section 6: Accidental Release Methods

Method and materials for containment and clean up: Contain spill with sand or other absorbent material and transfer to plastic drums for approved disposal. Wash away very small spills with water, avoid contamination of waterways

Section 7: Handling and Storage

Precautions for safe handling: Avoid inhaling any vapours/mists.

Conditions for safe storage: Store separate from foodstuffs and acids. Allow container to vent if required.

Section 8: Exposure controls/Personal protection

Workplace Exposure guidelines:	No exposure standard set. A Decomposition product, Chlorine gas, has: 8hr TWA of 0.5 ppm (1.5 mg/m ³) 15min STEL of 1 ppm (2.9 mg/m ³)
Ventilation specification:	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protective equipment:	Wear protective gloves and eye protection

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Section 9: Physical and Chemical Properties

Physical state:	Liquid
Colour:	Pale Straw
Odour:	Chlorine
Solubility in water:	100%
Specific gravity:	1.2 – 1.3
Flash point (°C):	Not Determined
pH:	1% Solution 12-13

Section 10: Stability and Reactivity

Chemical Stability:	Strong Oxidiser. Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age.
Conditions to avoid:	Light, heat, acids, incompatibles
Material to avoid:	Ammonia (chloramine gas may evolve), amines, ammonium salts, urea, UAN, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, oxidisable metals, acids, soaps, and bisulfates
Hazardous reactions:	Liberation of toxic chlorine gas when exposed to acidic conditions.

Section 11: Toxicological Information

Persons with impaired respiratory function, or heart disorders (or disease) may be more susceptible to the effects of the substance

Ingestion:	May cause nausea, vomiting SPECIES: Mouse ENDPOINT: LD50 VALUE: 5800 mg/kg
Eye contact:	Contact may cause severe irritation and damage, especially at higher concentration
Skin contact:	May irritate skin.
Inhalation:	INHALATION FORM: Vapours/Mists/Aerosols REMARK: Inhalation of aerosol may cause lung oedema. The effects may be delayed. Medical observation is indicated. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation is therefore essential.
Long term effects:	A constant irritant to the eyes and throat. Low potential for sensitization after exaggerated exposure to damaged skin

Section 12: Ecological information

Ecotoxicity: SPECIES: Clupea pallasii Pacific herring
TYPE OF EXPOSURE: Flow through
DURATION: 96 hr
ENDPOINT: LC50
VALUE: 65, 33 - 97 ug/l (= 0.065 mg/l)
REFERENCE SOURCE: Ref No: 5842. Thatcher, T.O. (1978) The Relative Sensitivity of Pacific Northwest Fishes and Invertebrates to Chlorinated Sea Water. In: R.L.Jolley, H.Gorchev, and D.H.Hamilton,Jr.(Eds.), Proc.Second Conf.Water Chlorination, Environ.Impact and Health Effects, Vol.2, Oct.31 to Nov.4, 1977, Gatlinburg, TN :341-350
[ECOTOX]

Biocumulative: No
Rapidly Degradable: Yes

Section 13: Disposal considerations

Disposal methods: Dispose of the product and packaging at an approved landfill or other approved facility. Avoid contamination of waterways. Do not use container for any other purpose.

Section 14: Transport information

Road and Rail Transport: Classified as a Dangerous Good according to NZS 5433:2012 (Transport of Dangerous Goods on Land)
Marine, Air Transport: Similar listing as for Road and Rail Transport apply

UN No.: 1791 **Proper Shipping Name:** Sodium Hypochlorite solution >5%
DG Class(es): 8 **Packing Group:** III **Hazchem:** 2R

Section 15: Regulatory Information

ERMA NZ Approval: HSR 004692 Sodium Hypochlorite >5-25% in a non hazardous diluent

Section 16: Other information

Disclaimer: This SDS summarises our best knowledge at the date of issue, the chemical health and safety limits of the material and general guidance on how to safely handle the material in the workplace. Since Stratacote Surface Protection cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Stratacote Surface Protection.

Revision History: Version 2.1 created on July 2014.

Updated to version 2.2 in March 2018: Reason for update: Section 2 Revision.