

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

LIQUID BLEACH

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Classified as **Hazardous** according to criteria of NOHSC¹ and **Dangerous Goods** according to the ADG Code²

UN NO.....:	1791	D.G. Class.:	8	Pack. Group...:	III
HAZCHEM:	2X	SUB. RISK.:	None allocated	SUSDP.....:	S5

PROPER SHIPPING NAME: HYPOCHLORITE SOLUTION

PRODUCT USE: General purpose bleach.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Sodium hypochlorite	7681-52-9	4-6
Water	Not required	>90

See Section 8, Exposure Controls / Personal Protection

3. HAZARDS IDENTIFICATION

Contact with acids liberates toxic gas.
Irritating to eyes and skin.

4. FIRST AID MEASURES

- Eyes:** Immediately flush with water for 15 minutes. Get medical attention if irritation develops or persists.
- Skin:** Take off all contaminated clothing. Thoroughly wash contaminated area with water. Consult a physician if irritation develops or persists.
- Inhalation:** Remove to fresh air. If breathing difficulties occur give artificial respiration. Consult a physician.
- Ingestion:** Do NOT induce vomiting. Rinse mouth. Give water to drink. Get prompt medical attention

immediately.

First Aid Facilities Premises handling this material should be equipped with a safety shower and eye wash facilities.

Advice to Doctor: Treat symptomatically. Do not use acid antidotes in the treatment of sodium hypochlorite poisoning. Sodium thiosulphate immediately reduces hypochlorite to non toxic products but may produce hydrogen sulphide in contact with acids.

5. FIRE FIGHTING MEASURES

Flash Point Not applicable
 Auto-ignition Temperature Not applicable
 Lower Explosive Limit Not applicable
 Upper Explosive Limit Not applicable

Suitable Extinguishing Media:

Use foam, water spray, CO2 or dry powder as applicable to surrounding fire.

Protective Equipment for Fire Fighting:

Thermal decomposition can release hazardous fumes.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Caution: Floor may be slippery. Provide sufficient ventilation. Wear personal protective equipment to prevent contact with skin and eyes.

Do not allow large quantities into drains or waterways. Take up with inert absorbent material (sand, universal absorbent). Dispose of empty containers in accordance with federal, state and local laws.

7. HANDLING AND STORAGE

UN 1791 CLASS 8 CORROSIVE – Transport and store in accordance with dangerous goods requirements. Wear personal protective equipment to prevent contact with skin and eyes. Do not use in confined spaces. Ensure adequate ventilation. Do not breathe vapour. Keep containers tightly closed and store in a cool, well-ventilated area.

Store away from acids, ammonia, organic solvents and other incompatible materials. Do not store in unlined metal containers. Containers must be carefully vented to release any pressure build up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Information

Ingredient	NOHSC ¹			
	TWA		STEL	
	(ppm)	(mg/m ³)	(ppm)	(mg/m ³)
Sodium hypochlorite	a	-	a	-

a = not listed

Sodium hypochlorite release chlorine which has a 1ppm TWA peak limitation.

TWA = Time Weighted Average

STEL= Short term Exposure Limit

¹ National Occupational Health and Safety Commission (Australia)

Respiratory Protection

If vapours and mists occur, a respiratory protection program meeting Australian and New Zealand Standards AS/NZS 1716 and AS/NZS1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in "Exposure Limit Information"

Eye Protection

Use chemical splash goggles (Australian Standard AS-1337) or approved equivalent. Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection

Impervious gloves, and protective clothing as necessary to prevent skin contact.

Engineering Controls (Ventilation)

Use local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations. Refer to Australian Standard AS-1668.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour	Yellow
State	Liquid
Odour Characteristic	Chlorine
pH	12-14
Viscosity	Not specified
Specific Gravity (Water = 1)	1.05 –1.1
Vapour Density (Air = 1)	Not specified
Vapour Pressure	Not determined
Melting Point	~ 0°C
Boiling Point	100°C, water
Solubility in Water	Completely soluble
Flash Point	Not applicable

10. STABILITY AND REACTIVITY

Hazardous reactions

Oxidising agent. Reacts vigorously with acids producing toxic chlorine gas. Contamination of solution and exposure to light or heat will accelerate decomposition. Incompatible with most metals. Will react with peroxides, metal salts and reducing agents.

11. TOXICOLOGICAL INFORMATION

Acute Data

Skin:	Moderately irritating. Repeated and prolonged skin contact may result in contact dermatitis
Eyes:	Severely irritating to eyes. Prolonged contamination may result in permanent eye damage.
Inhalation:	Irritating.
Ingestion:	Swallowing may cause severe irritation and corrosion of the mucous membranes of the mouth, throat and gastrointestinal tract with pain, inflammation and vomiting. Systemic effects include fall of blood pressure, delirium and coma.

Chronic Effects

No effects have been reported following long-term exposure to sodium hypochlorite (manufacturer's information).

12. ECOLOGICAL INFORMATION

Ecotoxicological Effects

Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Dispose of empty containers in accordance with federal, state and local laws.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods according to the Australian Code For The Transport Of Dangerous Goods By Road And Rail (Sixth Edition). See section 1.

15. REGULATORY INFORMATION

Labelling Requirements According to Criteria of NOHSC¹:

R31	Contact with acids liberates toxic gas.
R36/38	Irritating to eyes and skin.
S2	Keep out of reach of children.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.
S28	After contact with skin, wash immediately with plenty of soap-suds.
S50	Do not mix with acids.

16. OTHER INFORMATION

¹ National Occupational Health and Safety Commission – Australia

² Australian Code For The Transport Of Dangerous Goods By Road And Rail (Sixth Edition).

The advice and information contained herein is based on the original raw material supplier's information. Green Dolphin Eucalip believes the information to be accurate and reliable as at the date supplied, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability, or completeness of the advice and information. Green Dolphin Eucalip urges persons receiving this advice and information to make their own determination as to the advice and information's suitability and completeness for their own particular situation."

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