

WATER MAIN DISINFECTANT

HY-CLOR Liquid Chlorine, sodium hypochlorite 12.5 per cent

Product	HY-CLOR Liquid Chlorine, sodium hypochlorite 12.5 per cent
Manufacturer	Hy-Clor Australia Pty Ltd
Where 6D uses it	Disinfection and chlorination of new potable water mains before connection.
Signal word	Danger
Classification	Serious eye damage Cat 1; Skin corrosion Cat 1C; Acute aquatic hazard Cat 1
Pictograms	GHS05, GHS09
Dangerous goods	UN 1791, Class 8 (UN 1791, sodium hypochlorite solution), PG III, Hazchem 2X
Poisons schedule	S5
Manufacturer's sheet	20 January 2023. 6 pages.
Review due	20 January 2028

FIRST AID, FROM SECTION 4 OF THE MANUFACTURER'S SHEET

Inhalation: Remove the source of contamination or move the victim to fresh air.

Skin: Remove contaminated clothing and wash skin thoroughly decontaminate clothing before re-use or discard.

Eyes: If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open.

Swallowed: DO NOT INDUCE VOMITING. Rinse mouth with water and then give plenty of water to drink.

Emergency 000. Poisons Information Centre 13 11 26.



Scan for the current sheet

6dcivil.com.au/sds/water-main-disinfectant

The website copy is the current one. A printed sheet is uncontrolled and may have been superseded since it was printed.

This cover is 6D Civil's summary of the manufacturer's safety data sheet, which follows this page and governs. Register 6DC-OHS-RG-0004 Rev A. Section 330(3) of the Work Health and Safety Regulation 2011 (Qld) requires the manufacturer or importer of a hazardous chemical to review its safety data sheet at least once every five years, and to amend it whenever necessary to keep it correct and current.



Safety Data Sheet

Review Date: 20th January 2023

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	HY-CLOR LIQUID CHLORINE
Shipping Name:	Sodium Hypochlorite Solution (12.5%)
Product Code:	HYCLIQCHL125, HYCLIQCHL05X4
UN Number:	UN1791
Other Names:	N/A
Recommended Use of the Chemical and Restrictions on Use:	Swimming Pool disinfectant and Sanitiser
Chemical Formula:	NaClO
Supplier:	HY-CLOR AUSTRALIA PTY LTD
Street Address:	178 Power Street Glendenning NSW 2761
Telephone Number:	02 8805 2400 (Aus) 09 973 2477 (NZ)
After Hours:	0404 859 515 (Aus)
Email:	help@hyclor.com.au
Emergency Telephone:	13 11 26 (Australia Poisons Information Centre) 0800 764 766 (New Zealand)

2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Poison Schedule: S5 SIGNAL WORD: Caution

ADG Classification: 8 Corrosive Substances

UN Number: 1971, Hypochlorite Solution

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:

Eye Damage: Sub Category 1

Skin Corrosion /Irritation – Cat 1C

Acute Hazard to Aquatic Environment – Category 1

SIGNAL WORD: DANGER



Hazard Statement(s):

Product Name: HY-CLOR LIQUID CHLORINE

Review Date: 20th January 2023



Safety Data Sheet

Review Date: 20th January 2023

H314: Causes Skin Burn and Eye Damage

H400: Very Toxic to Aquatic Life

Precautionary Statement(s):

Prevention:

P260: Do not breathe mist vapours etc.

P102: Keep out of reach of Children

P264: Wash hands thoroughly after handling

P273: Avoid release to the environment

P280: Wear Protective gloves/clothing/eye protection/face protection

Response:

P301+P330+P331: If Swallowed Rinse mouth, Do not induce vomiting

P303+P361+P353: If on skin or hair, take off immediately all contaminated clothing. Rinse Skin with water.

P363: Wash contaminated clothing before reuse.

P310: Call Poison Centre/Doctor

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinse.

P391: Collect spillage

Disposal:

P501: Dispose of contents/container in accordance with local/regional/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion
Sodium Hypochlorite	7681-52-9	10%-<30 %
Water	7732-18-5	>60 %

4. FIRST AID MEASURES

General	Keep Victim warm and quiet. Obtain immediate medical care. Ensure that attending medical personnel are aware of the identity and nature of the product involved, and take precautionary measures to protect themselves.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth with water and then give plenty of water to drink. Seek medical attention if large amounts ingested. Call Poison Centre 13 11 26
Eye	If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open. Seek medical attention immediately.
Skin	Remove contaminated clothing and wash skin thoroughly decontaminate clothing before re-use or discard. If swelling, redness, blistering or irritation occurs seek medical advice.

Product Name: HY-CLOR LIQUID CHLORINE

Review Date: 20th January 2023



Safety Data Sheet

Inhalation

Review Date: 20th January 2023

Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through face mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation. Seek immediate medical attention.

First Aid Facilities

Eye wash and normal washroom facilities. First Aid Kit.

Advice to Doctor

Treat symptomatically

Medical Conditions that may Be Aggravated by Exposure

Asthma and respiratory and cardiovascular disease.

5. FIRE FIGHTING MEASURES

Hazchem Code

2X

Extinguishers

Fine Water Spray, Normal Foam. Dry Agent (Carbon Dioxide, Dry Chemical Powder)

Fire Fighting Procedures

Wear self-contained breathing apparatus (SCBA) and protective clothing.

Hazardous

Decomposition

Decompose on heating emitting fumes.

Other precautions

Keep away from children.

6. ACCIDENTAL RELEASE MEASURES

Spills

Evacuate all unnecessary personnel. Wear protective clothing as specified in the Personnel Protection section of the SDS. Slippery when spilt Clean up immediately. Wear PPE to avoid vapour and skin contact. Work up wind or increase ventilation. Use absorbent (soil or sand). Collect and seal in properly labelled containers or drums for disposal. If large quantities of the material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Handling

Avoid skin and eye contact and inhalation of vapour. Wear appropriate protective equipment and clothing. Use in a well ventilated area. Avoid spillage onto floor. Keep containers closed when not in use. Maintain personal hygiene by washing hands prior to eating, drinking, smoking or using toilet. Keep out of the reach of children.

Storage

Store in a cool, dry, well ventilated area, out of direct sunlight. Store in suitable, labelled containers. Avoid any dust build-up by frequent cleaning and suitable construction of storage area. Keep storage separated from work areas. Inspect periodically for deficiencies such as damage or leaks. Store away from foodstuffs



Safety Data Sheet

Review Date: 20th January 2023

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards	No ingredients in this product have exposure standards, as outlined in the standard <i>Exposure Standards for Atmospheric Contaminants in the Occupational Environment</i> third edition, published by the National Occupational health and Safety Commissions/AGPS, 1995. However decomposition standards Chlorine: Peak Limitation: 3 mg/m ³ (1 ppm)
Engineering Measures	Avoid generating and inhaling vapours. Use in a well ventilated area only. Keep containers in a well-ventilated area. Local exhaust ventilations system may be required, especially if chlorine gas evolved.
Personal Protection Equipment	
Clothing	Suitable protective clothing should be worn e.g. cotton overalls and safety shoes.
Skin Protection	Impervious PVC or rubber gloves should be worn.
Eye Protection	Safety glasses with side shields or goggles should be worn.
Respiratory Protection	If inhalation risk exists, wear respirator meeting the requirements of AS/NZS251716.
Personal Hygiene	Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid Pale Yellow appearance, Chlorine like odour
Boiling Point	N/A
Freezing/Melting Point	N/A
Vapour Pressure	N/A
Specific Gravity	N/A
Flash Point	N/A
Upper Flammability Limit	N/A
Lower Flammability Limit	N/A
Solubility in Water	Miscible in Water
pH	12.5 (1% w/w)

10. STABILITY AND REACTIVITY

Reactivity:	Avoid Contact with acids generates toxic gas
Chemical Stability	Stable under normal ambient and anticipated storage and handling conditions of temperate and pressure. The amount of available chlorine diminishes over time.
Conditions to Avoid	Avoid high temperatures, contact with Food or Acids.
Incompatible Material	Incompatible with acids, metals, metal salts, peroxides, reducing agents, ethylene diamine tetraacetic acid, incompatible with ammonia and ammonium compounds such as amines and ammonium salts.
Hazardous Decomposition Products	Chlorine

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Review Date: 20th January 2023



Safety Data Sheet

Review Date: 20th January 2023

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:

Acute Effects

Swallowed

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Skin

Harmful in contact with skin. Corrosive to skin – may cause burns. Dermal exposure can cause severe irritation and/or burns characterised by redness, swelling and scab formation.

Eye

Causes burns and is a severe eye irritant. Contact may cause impairment of vision or corneal damage.

Inhaled

Breathing in mists or aerosols may produce respiratory irritation. Delayed

Long Term Effects

Prolonged skin exposure may cause destruction of the dermis with impairment of the skin at site of contact to regenerate.

Acute Toxicity:

No LD50 data available for the product. For the constituent Sodium Hypochlorite Oral LD50 (mice): 5800 mg/Kg

12. ECOLOGICAL INFORMATION

Highly toxic to aquatic life.

Avoid contaminating waterways. Breaks down in sunlight.

48 hr LC50 (fish) 0.07 - 5.9 mg/L (for Sodium Hypochlorite)

This material is Biodegradable

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers Dispose of according to relevant local, state and federal government regulations.

Special Precautions for Landfill Contact a specialist disposal company for landfill.

14. TRANSPORT INFORMATION

UN Number	1791
Land Transport	ADG
UN Proper Shipping Name	Sodium Hypochlorite
Dangerous Goods Class	8 Corrosive
Packing Group	III
Hazchem Code	2X

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Safety Data Sheet

Review Date: 20th January 2023

Special Precaution to User This material is classified as 8 Corrosive according to the Australian Code for the Transport of Dangerous Goods.

15. REGULATORY INFORMATION

This material is hazardous according to Safe Work Australia. Hazardous Substance.

Poisons Schedule (Aust) S5 Caution

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)

WHS Act and Regulation 2011

16. OTHER INFORMATION

Contact

Any advice, recommendation, information, assistance, or service provided by Hy-Clor Australia in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, this information is given without warranty or representation. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products.

Mr Mark Sheridan

Technical Regulations Manager

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