



Safety Data Sheet

20 January 2023

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: HY-CLOR LONGLIFE ALGAECIDE 1L

Chemical Name: Copper Sulphate Pentahydrate

Product Code: HYCALG01, HYCLLALG02

Recommended Use of the Chemical and Restrictions on Use: Algaecide for swimming pools

Supplier: HY-CLOR AUSTRALIA PTY LIMITED

Street Address: 178 Power Street

Glendenning NSW 2761

Telephone Number: (02) 8805 2400 (Aus) 09 973 2477 (Nz)

After Hours Contact: 0404 859 515 (Aus)

Email Contact: help@hyclor.com.au

Emergency Telephone: 13 11 26 (Australia Poisons Information Centre)

0800 764 766 (New Zealand)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information"

2. HAZARD IDENTIFICATION

Classified as hazardous according to the criteria of the GHS as adopted in Australia. Not a Dangerous Good according to ADG 7.5.

Poisons Schedule: S5. SIGNAL WORD: DANGER

GHS Hazard Statement(s)

Eye damage/Irritation – Category 1 (HSNO class 5.1.1B)

Skin corrosion/Irritation – Category 1B(HSNO class 8.2B)

Precautionary statements

Prevention:

P233: Keep container closed.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

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P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

Response:

P 302+P352: IF ON SKIN, Wash with plenty of water.

P301+P312: IF SWALLOWED, call a POISON CENTRE or doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire, use extinguishing media suited to burning materials

Storage:

P405: Store locked up.

Disposal:

P501: For large quantities use a commercial waste disposal service if recycling or reclaiming is not possible



Hazard pictograms

Signal word

Danger

Label Statements:	Keep out of reach of Children Read Label before use If medical advice is needed, have product container or label at hand.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (% w/w)
Copper Sulphate Pentahydrate	7758-99-8	4%
Inert Ingredients		Balance

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre. Phone Australia 13 11 26 or a doctor. Have this SDS when you call.

Swallowed:	Do not induce vomiting unless advised to do so from, a medical practitioner. Wash out mouth with water and give plenty of water to drink. Seek medical attention.
Skin:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If irritation occurs seek immediate medical attention.
Eye:	If contact with the eye(s) occurs, or if eye irritation arises, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation occurs seek immediate medical attention.
Inhaled:	If inhalation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial.
Note to Physician	Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Not combustible. Use extinguishing media suited to burning materials
Special hazards arising from the chemical:	Only small quantities of decomposition products are expected from the product at temperatures normally achieved in a fire. This will occur after heating to dryness. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

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Special protective equipment and precautions for fire fighters: In confined areas or areas of excessive smoke, fire fighter must wear full protection and self-contained breathing apparatus and protective clothing

Hazchem Code: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure	In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services. Wear full protective clothing including eye/face protection.
Environmental precautions	Keep spilt products out of drains, sewers and waterways. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
Methods and materials for containment and cleaning up	For minor spills, contain and absorb with inert materials (sand, earth), sweep up, place contaminated material in a sealed container and place in garbage. Wash area down with excess water.

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid skin and eye contact and breathing in vapour, mists and aerosols. Use 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.
Safe storage, including any incompatibilities	Store in a cool, dry, well ventilated area, out of direct sunlight. Store in suitable, labelled containers. Inspect periodically for deficiencies such as damage or leaks. Keep out of reach of children. Store away from incompatible substances.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems

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Exposure controls: No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Appropriate Engineering Controls:

No special ventilation requirements are normally necessary for this product. However, make sure that the work environment remains clean and that vapours and mists are minimized.

Personal Protective equipment - for manufacturing and bulk handling situations:

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Clothing:

Wear overalls clothing including chemical resistant apron where clothing is likely to be contaminated.

Skin Protection:

Wear gloves of impervious material such as PVC, neoprene or nitrile. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

Eye Protection:

Tightly fitting safety goggles or full-faced shields as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.

Respiratory Protection:

Respiratory protection is not normally necessary, unless the production of mists is significant. In such cases, a suitable respirator may be worn that meets the requirements of AS/NZS 1715 and AS/NZS 1716.

Personal Hygiene:

Always wash hands after handling this product.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Blue Liquid	Vapour pressure:	2.37 kPa at 20°C (water vapour pressure)
Odour:	Mild Odour	Relative density:	No data found
pH:	1.2 (10% solution)	Water solubility:	Completely soluble
Melting point / freezing point:	Not applicable	Partition coefficient n-octanol/water:	Not applicable, inorganic compound
Initial boiling point and boiling range:	~ 101°C	Auto-ignition temperature:	Not applicable
Flash point:	Not flammable	Decomposition temperature:	No data found
Evaporation rate:	No data found	Viscosity:	No data found
Flammability:	Not flammable	Explosive properties:	Not explosive
Upper/lower flammability limits:	Not flammable	Oxidising properties:	Not an oxidiser
Vapour pressure:	No data found		

10. STABILITY AND REACTIVITY

Reactivity:	This product is stable
Chemical Stability:	This product is stable and unlikely to react or decompose under normal circumstances.
Possibility of hazardous reactions:	Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen, occasionally hydrogen cyanide gas. Oxides of sulphur and other sulphur compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement, and unconsciousness followed by death.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible materials:	Strong oxidising agents. Strong acids.



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11. TOXICOLOGICAL INFORMATION

No data available for the product. Information given is based on the benzalkonium chloride (C₁₂-C₁₆ alkyl dimethyl benzyl ammonium chloride) component.

Acute Oral	Metallic taste in mouth. Burning sensation in throat and vomiting are typical effects. More severe poisoning causes irritation in digestive tract with abdominal pain, nausea, vomiting, ulceration and diarrhoea
Skin corrosion/irritation	Contact with skin may result in irritation
Serious eye damage/eye irritation	May cause eye irritation and inflammation
Inhalation	May cause irritation of the nose and upper airways
Respiratory or skin sensitisation	Not mutagenic or genotoxic
Mutagenicity	No data found
Reproduction/Development	Not carcinogenic based on rat and mice studies
Carcinogenicity	Not considered to be a carcinogenic hazard
Specific target organ toxicity - single exposure	No data found
Specific target organ toxicity - repeated exposure	No data found
Aspiration hazard	No data found



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12. ECOLOGICAL INFORMATION

This product is harmful to organic organisms. This product is not biodegradable; it may accumulate in the soil or water and cause long term problems.

13. DISPOSAL CONSIDERATIONS

Disposal: Rinse empty containers in the pool and dispose of by wrapping with paper and putting in garbage. For larger quantities, refer to Refer to local government authority for disposal recommendations. Dispose of material through a licensed waste contractor. Normally suitable for disposal at approved land waste site..

14. TRANSPORT INFORMATION

This product is not classified as a Dangerous Good by ADG, IATA or IMDG,IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Consult the ADG 7.5, IMDG and ICAO/IATA Codes for all the transport requirements for the specified UN Number.

15. REGULATORY INFORMATION

Poisons Standard (Scheduling):	Schedule 5
APVMA Product Number:	59579

16. OTHER INFORMATION

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.5, 2017
AS/NZS	Australian Standard/New Zealand Standard
CAS Number:	Unique Chemical Abstracts Service Registry Number

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EC₅₀:	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species).
GHS:	Globally Harmonized System of classification and labelling of chemicals (GHS)
Hazchem Code:	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HCIS:	Hazardous Chemical Information System (http://hcis.safeworkaustralia.gov.au/HazardousChemical)
IARC:	International Agency for Research on Cancer
LD₅₀:	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
IDLH:	Immediately dangerous to life or health (IDLH) is defined by the US National Institute for Occupational Safety and Health (NIOSH)
LC₅₀:	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population.
NTP:	National Toxicology Program (USA)
SDS:	Safety Data Sheet
STEL:	Short term exposure limit (STEL) means the time-weighted average maximum airborne concentration of a substance calculated over a 15 minute period.
TWA:	8-hour Time-weighted average (TWA) means the maximum average airborne concentration of a substance when calculated over an eight-hour working day, for a five-day working week.
WES:	Workplace exposure standard
UN Number:	United Nations Dangerous Goods Number

References:

Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (February 2016). The exposure standards comply with the New Zealand and Australian Workplace Exposure Standards for Airborne Contaminants. The Dangerous Goods Classification complies with the Australian Code for the Transport of Dangerous Goods by Road & Rail Edition 7.5, 2017. Other information from ChemIDPlus and linked databases. European Chemicals Agency Classification and Labelling database.

Sections Revised: All

Replaces revision: 10th October 2017

Disclaimer

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This Safety Data Sheet (SDS) has been prepared in compliance with the Work Safe Australia Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (February 2016). The information in this SDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Hy-Clor Australia Pty. Limited shall not be held liable for any damage resulting from handling or from contact with the above product.

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