

Safety Data Sheet

1. IDENTIFICATION

Product Name: POOL DROPS LIQUID ALGICIDE PLUS 1.0L & 1.5L
Other Names: POOL DROPS
APVMA Reg No.: 46425/0998 & 46425/119440.
Physical Description: Liquid, Deep Blue in Colour.
Uses: Liquid algicide used to treat swimming pools for all algae types including Blackspot.
Manufacturer: ALGAEFREE AUSTRALIA. 2 / 24 Cohn Street, CARLISLE 6101 Western Australia.
 Tel +61 8 9472 4000 Fax +61 8 9472 0000
Emergency Contact : Poisons Information Centre Australia 131126, New Zealand 0800 764 766, Canada call 911 or 24Hour contact mobile +61 400 226 149.

2. HAZARDS IDENTIFICATION

ADG CODE: Non Dangerous Good (ADG Code Edition 7.5,2017)
IMDG CODE: Non Dangerous Good (IMDG 2016 Edition Amendment 38-16)
SUSMP: Schedule 5. Poison – Substances with a low potential for causing harm, the extent of which can be reduced through the use of distinctive packaging with simple warnings and safety directions on the label.
Risk Phrases: R22, R36/37/38, R52; Harmful if swallowed. Irritating to eyes respiratory system and skin. Harmful to Aquatic Organisms.
Safety Phrases: S2, S24, S25, S29; Keep out of the reach of children. Avoid contact with skin. Avoid contact with eyes. Do not empty into drains.
WHS/GHS: Classified as Hazardous - Acute Toxicity(Oral) Cat.4, Skin Corrosion/Irritation Cat.2, Eye Corrosion/Irritation Cat. 2
GHS Signal Word: WARNING
Hazard Statement: H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
Prevention: P102 Keep out of reach of children.
 P264 Wash contacted areas thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves and eye protection.
Response: P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
 P330 Rinse mouth.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing,
 P332+P313 If skin irritation occurs: Get medical attention/advice.
 P337+P313 If eye irritation persists: Get medical attention/advice.
 P362 Take off contaminated clothing and wash before reuse.
Disposal: P501 Dispose of container in accordance with local government regulations.

3. COMPOSITION & INFORMATION ON INGREDIENTS

A Mixture with Active Constituent: 60g/L copper (Cu) present as Cupric Sulphate Pentahydrate.

| Ingredient | Proportions % | CAS No. |
|------------------------------|---------------|---------------|
| Copper Sulphate Pentahydrate | 25% | 7758-98-7 |
| Organic Amine Compounds | 25 – 40% | Proprietary |
| Non Hazardous Ingredients | <50% | Non Hazardous |

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4. FIRST AID MEASURES

First Aid Measures by Routes of Exposure.

- General:** If poisoning occurs, contact a doctor or Poisons Information Centre, phone Australia 131126 or New Zealand 0800 764 766 or Canada call 911 or contact the nearest Poisons Control Centre in your country.
- Advice to Doctor:** Treat symptomatically.
- Swallowed :** If swallowed, and if more than 15 minutes from a hospital, induce vomiting preferably using Ipecac Syrup APF. Seek urgent medical attention. Ingestion is considered unlikely and can result in a burning sensation to the mouth, throat and oesophagus, vomiting and nausea.
- Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. Remove contact lenses, if present and easy to do. Continue rinsing, Can cause inflammation. If eye irritation persists get medical attention/advice.
- Skin:** If skin contact occurs, remove contaminated clothing, shoes, leather bands, belts etc. and wash skin thoroughly using non-abrasive soaps. Wash hands after use. Can irritate if contact is prolonged. If skin irritation occurs get medical attention/advice.
- Inhaled:** Not considered relevant as no airborne concentrations of dust, fumes or vapour are associated with this product in normal use or storage. May cause mild discomfort.
- First Aid Facilities:** If practicable an eye wash station and skin barrier creams.

5. FIRE FIGHTING MEASURES

- Flammability:** Non-flammable. No fire or explosion hazard exists. Will evolve toxic sulphur oxide vapours when heated to decomposition. Very soluble in water.
- Extinguishing Media:** Use an extinguishing agent appropriate for the surrounding fire.
- Exposure Hazards:** No specific hazards.
- Protective Equipment:** Fire-fighters should wear full protective clothing and NIOSH-approved self contained breathing apparatus with a full face piece.
- Hazchem Code:** Not Applicable.

6. ACCIDENTAL RELEASE MEASURES

Product is a liquid, the ground might become slippery. Irritating vapours might occur in a poorly ventilated area. Avoid indirect contact with eyes, skin and vapours from handling by using appropriate PPE. Contain, bund or absorb spill with an inert material such as sand or vermiculite, or sweep up large quantities with a broom into containers. Avoid release to drains and waterways. If product does enter waterway, advise the local environmental or emergency service. Dispose in accordance with environmental regulations. Wash hands thoroughly with soap and water if contact occurs.

7. HANDLING & STORAGE

- Handling:** Avoid contact with eyes & skin and use appropriate PPE for skin and eyes. Wash hands after use. Dispose of container by wrapping in paper, placing in a plastic bag and placing in a garbage bin. Not to be used as a food container. Protect from physical damage. Always use safe handling chemical procedures.
- Storage:** Store in the closed original container in a cool dry place out of reach of children. Store away from incompatible materials as listed in section 10. Do not store in direct sunlight.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

No exposure standard has been established for this product by SWA. No airborne concentrations of dust, fumes or vapour are associated with this product in normal use or storage. However we can consider the exposure standard for **Copper Dusts and mists (as Cu): 8hr TWA = 1mg/m3 (fume)**. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. These exposure standards are guides and are not a measure of relative toxicity. CONTINUED OVER PAGE...

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- Engineering Controls:** Local exhaust acceptable with special exhaust not required.
Ventilation : General room ventilation is normally adequate.
Eye Protection : Use chemical safety glasses, goggles or a face shield when using this product.
Skin Protection : Wear rubber or PVC gloves and protective clothing. Discard or wash clothing that has been contaminated with product concentrate.
Personal Respirators : Not normally necessary when using this product.

9. PHYSICAL & CHEMICAL PROPERTIES

- Appearance:** Deep Blue Liquid
Odour: Slight
Chemical Type: Mixture
Specific Gravity: 1.24 g/ml @ 20 C
pH : 8.7 approx
Boiling Point: 100 C (water)
Melting Point: 0 C (water)
Solubility: Soluble
Flammability: Not Flammable

10. STABILITY & REACTIITY

- Stability & Reactivity :** Stable
Incompatibility : Incompatible with strong acids. Exhibits a low corrosion potential with only minor galvanic and alkaline susceptibility to metals in direct contact.
Hazardous Decomposition Products: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

No specific data available for this product mixture.
We can consider Toxicological information for Copper Sulphate Pentahydrate CAS No. 7758-98-7:

| Test | Result | Root | Species |
|------|-------------|--------|---------|
| LD50 | 300mg/Kg | Oral | Rat |
| LD50 | < 2000mg/Kg | Dermal | Rat |

- Acute Effects:** Eye; irritating to eyes. Skin; moderately irritating. Capable of causing skin reactions which may lead to dermatitis. Inhalation; dust may be discomforting to the upper respiratory tract. Ingestion; maybe harmful if swallowed.
Carcinogenicity : Not listed as a carcinogen
Teratogenicity and Embryotoxicity : There are no reports of this condition in humans.
Toxicological Synergistic Materials : No Information available
Mutagen city : No human data available.
Potential for Accumulation : Copper is an essential element and its level in the body is strictly controlled. Under most conditions , excess copper is excreted in the urine and faeces (via the bile).

12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms,
May cause long-term adverse effects in the aquatic environment. Copper accumulates in soils. The fate of copper in water is dependent on a number of variables, but particularly pH. Copper is an essential nutrient in all organisms.

13. DISPOSAL CONSIDERATIONS

Recycle whenever possible or consult manufacturer for recycling options. Dispose of in accordance with all local, state & federal environment and waste disposal requirements or legislation. Refer to product label.

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14. TRANSPORT CONSIDERATIONS

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|-------------------------|--|
| Road & Rail: | Non Dangerous Goods - Exempt from the packing group criteria in 2.6.2 for UN3010 as per 2.6.2.3.2 in the Australian Code for the Transport of Dangerous Goods by Road & Rail Ed. 7.5, 2017. |
| Sea: | Non Dangerous Goods - Exempt from the packing group criteria in 2.6.2 for UN3010 as per 2.6.2.3.2 and exempt from 2.10 subject to 2.10.2.2 and 2.10.2.7 in containers less than 5kg as per the International Marine Dangerous Goods Code 2016 Edition Amendment 38-16. |
| Hazchem: | Not Applicable |

15. REGULATORY INFORMATION

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|-----------------------|---|
| APVMA: | Product is approved and regulated by the APVMA. Approval numbers are 46425/0998 for 1.0L pack size. This product has been classified by the APVMA according to the criteria of the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) to be S5. |
| Legislation: | This SDS has been prepared according to Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals is an approved code of practice under section 274 of the Work Health and Safety Act (the WHS Act). |
| Poisons Sched: | Schedule 5 |

16. OTHER INFORMATION

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| Disclaimer: | <p>This Safety Data Sheet has been developed from the guidelines of the GHS Globally Harmonized System of Classification and Labelling of Chemicals Rev.3 2009 and the NOHSC National Code of practice for the preparation of MSDS and the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals is an approved code of practice under section 274 of the Work Health and Safety Act (the WHS Act).</p> <p>The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this Material Safety Data Sheet is to describe product in terms of their safety requirements.</p> <p>The information is supplied upon the condition that the persons/companies receiving same will make their own determination as to its suitability for their purposes prior to use of the product. The physical data shown herein are typical values based on material tested.</p> <p>These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.</p> <p>Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with the relevant Federal, State and Local Government regulations.</p> <p>This SDS contains primarily safety information.</p> <p>Additional Information can be obtained by visiting our website www.algaefreeaustralia.com</p> |
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Acronyms:

| | |
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| ADG Code | Australian Code for the Transport of Dangerous Goods by Road & Rail Ed. 7.5, 2017 |
| APVMA | Australian Pesticides and Veterinary Medicines Authority |
| CAS No. | Chemical Abstracts Service Registry Number |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals Rev.3 2009 |
| IMDG | International Marine Dangerous Goods Code 2016 Edition, Amendment 38-16. |
| NOHSC | National Occupational Health and Safety Commission |
| PPE | Personal Protective Equipment |
| SUSMP | Standard for the Uniform Scheduling of Medicines and Poisons |
| SWA | Safe Work Australia |
| UN | United Nations Number |
| WHS | Model Work Health and Safety Act 21 st March 2016 |

END OF SDS

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