

Section 1 - Identification of the Material and Supplier

Chemical nature: Algaecide
Trade Name: Copcide
Product Use: Algae control
Supplier: Amgrow Pty Ltd
3/29 Birnie Ave
Lidcombe NSW 2141
Phone: 02 9395 1200 (office hours), Fax: 02 4729 3037
www.amgrow.com.au

This version issued: November 2016 and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

THIS PRODUCT IS CLASSIFIED AS: NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA.

NOT A DANGEROUS GOOD ACCORDING TO AUSTRALIAN DANGEROUS GOODS (ADG) CODE, IATA OR IMDG/IMSBC CRITERIA.

Risk Phrases: Not Hazardous - No criteria found.

Safety Phrases: S25, S37 Avoid contact with eyes. Wear suitable gloves.

SUSMP Classification: S6

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated

GHS Signal word: NONE. Not hazardous.

PREVENTION

- P102: Keep out of reach of children.
- P261: Avoid breathing mists
- P262: Do not get in eyes, on skin, or on clothing.
- P281: Use personal protective equipment as required.

RESPONSE

- P353: Rinse skin or shower with water.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

- P402+P404: Store in a dry place. Store in a closed container.

DISPOSAL

- P501: If they cannot be recycled, dispose of contents and containers to landfill (see Section 13 of this SDS).

Emergency Overview

Physical Description & Colour: Viscous blue liquid

Odour: Mild ammonia odour

Major Health Hazards: No significant risk factors have been found for this product.

Section 3 - Composition/Information on Ingredients

<u>Ingredients</u>	<u>CAS No</u>	<u>Conc.%</u>
Copper Chelate	14025-15-1	50-60
Alkanolamines	not available	30-40
Water	7732-18-5	to 100

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

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Issued by: Amgrow Pty Ltd

Phone: 02 9395 1200 (office hours)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

Section 4 - First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes or until all product removed. If irritation persists seek medical advice

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing for at least 15 minutes or until all product removed. If irritation persists seek medical advice.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical advice if symptoms are experienced.

Ingestion If swallowed, do not induce vomiting. For advice, contact a Poison Information Centre on 13 11 26 or a doctor immediately.

Advice to Doctor Treat symptomatically

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstance if it is involved in a fire

Extinguishing Media: Non flammable. Use extinguishing media suited to surrounding materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Fire fighters to wear non-flammable protective clothing, gloves, hat, goggles and respirator.

Flash point: Product does not burn

Upper & Lower Flammability Limits: Not flammable

Auto ignition temperature: Not flammable

Fire Decomposition Products: May evolve toxic gases (copper & sulfur oxides) when heated to decomposition

Hazchem Code None Allocated

Section 6 - Accidental Release Measures

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. If there is a significant chance that dusts are likely to build up in the cleanup area, we recommend that you use a respirator.

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store in a dry, cool, well-ventilated area – dampness may cause handling difficulty. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure Limits **TWA (mg/m³)** **STEL (mg/m³)** **ADI (mg/Kg/day)** **NOEL (mg/Kg/day)**

Exposure limits have not been set for any ingredients in product. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2003.

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.

Ventilation: Avoid vapours and provide local exhaust ventilation where necessary.

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Eye Protection: To avoid contact with eyes, wear face shield, goggles or safety glasses.

Skin Protection: Wear impermeable PVC gloves to prevent skin contact. Wear overall and long sleeves to prevent skin contact

Respirator: Usually no respirator is necessary when using this product

Safety Boots: Safety boots in industrial situations are advised

Provision of eye wash facilities and safety shower recommended.

Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use or destroy contaminated clothing. Advise laundry of nature of contamination.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Viscous blue liquid
Odour:	Mild ammonia odour
Boiling Point:	103°C at 100kPa
Volatiles:	No data
Vapour Pressure:	18mm Hg at 20°C
Vapour Density:	3.9.
Evaporation Rate:	>1
Specific Gravity:	1.25
Water Solubility:	Completely soluble
pH:	8 - 9
Flash Point	Not relevant

Section 10 - Stability and Reactivity

Reactivity: This product is stable under normal temperatures and pressures, when stored and handled in accordance with this MSDS

Conditions to Avoid: Store away from heat or fire, keep away from direct sunlight

Incompatibilities: Incompatible with oxidising agents (e.g. hypochlorites, peroxides), acids (e.g. sulphuric acid), heat and ignition sources. Also incompatible with active metals (e.g. aluminium).

Fire Decomposition: May evolve toxic gases (copper & sulfur oxides) when heated to decomposition

Polymerisation: Will not spontaneously polymerise

Section 11 - Toxicological Information

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Toxicity to Animals: Acute oral toxicity (LD50): 6450 mg/kg [Rat].

Chronic Potential Health Effects:

Chronic ingestion may affect kidneys, and may cause hypocalcaemia with alkalosis.

Potential Health Effects

Eye Contact: Irritant. Contact may result in irritation, lacrimation, pain and redness

Inhalation: Low irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing

Skin Contact: Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis

Ingestion: Low toxicity. Ingestion may result in nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in liver, kidney and blood damage.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Classification of Hazardous Ingredients

Ingredient

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Section 12 - Ecological Information

Biological: Positive potential for food chain accumulation. Soluble copper compounds are highly toxic to aquatic and plant life.

Effects on aquatic organisms: Soluble copper compounds are highly toxic to aquatic organisms

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Precautions: Do not contaminate dams, waterways or sewers with this product or the containers, which have held this product. Spray drift should be avoided Do not contaminate water when disposing of equipment washings or rinsate.

Environmental Fate:

Soil: Copper is found in the earth's crust both in its native state and combined into other minerals.

Section 13 - Disposal Considerations

Disposal: Full details regarding disposal of used containers, and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations.

Container Disposal Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. To assist with disposal of empty drums, contact DrumMuster www.drummuster.com.au

Section 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.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail	IMDG	International Maritime Dangerous Good
AICS	Australian Inventory of Chemical Substances	IMSBC	International Maritime Solid Bulk Code
CAS number	Chemical Abstracts Service Registry Number	NTP	National Toxicology Program (USA)
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters	SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
IARC	International Agency for Research on Cancer	SWA	Safe Work Australia (formerly ASCC and NOHSC)
IATA	International Air Transport Authority	UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product. This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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SAFETY DATA SHEET