



Copcide

Algaecide



Product Information



What is Copcide Algaecide?

Copcide is a broad spectrum algaecide containing 105g/L of Copper in the form of Ethanolamine complexes.

Copcide is registered for the control of planktonic and filamentous algae species in a variety of aquatic situations including irrigation dams, aquaculture and potable water supplies.



Features of Copcide Algaecide

- ✓ Copper complex technology reduces the likelihood of copper impacting on non-target species of aquatic plants.
- ✓ Reduced likelihood of copper precipitation in hard water due to Complex technology. Preventing copper loss to precipitation reduces application rates and prevents staining issues that may occur from the use of copper sulphate (bluestone).
- ✓ Broad spectrum control for use on a wide range of both filamentous and planktonic/unicellular algae species including Blue / Green Algae.
- ✓ Safe for use in water bodies inhabited by fish and other aquatic plant life.
- ✓ Persists in water bodies for longer due to the complexed copper formulation resisting binding to suspended compounds. This results in extended algal control following application.
- ✓ Ideal for use in an integrated aquatic management plan with other specialty products.

Copcide at a glance

Active Ingredient	105g/L Copper as Mixed Copper Complexes
Formulation	Liquid
Pack Size	20L
Rate	0.2-1.0mg/L Copper Dilution
Poison Schedule	Schedule 6 (Poison)

› Copcide Mode of Action

Similar to many herbicides, Copcide possesses a contact mode of action. The Copcide molecules must physically come into contact with the algal cells or filaments in order to cause algal death, with little to no intracellular or systemic movement of the copper. This makes the application method of Copcide crucial in ensuring effective coverage, contact and control of the algal population.

While the mode of action is not entirely known, Copcide is believed to interfere with or inhibit various internal processes such as the electron transport chain in algal photosynthesis, mitosis (cell division) and nitrogen fixation*. The interruption of these processes results in fast and effective death of the algal cell.

* Senseman, S 2007, Herbicide Handbook.



› Copcide Application Guide

The type of algae present governs the recommended active ingredient output requirement as per the below table. Once the required volume of Copcide is determined, dilute at 1:10 ration with water and apply evenly over the water surface. Copcide is best applied in calm sunny conditions with a knapsack sprayer over the water surface.

Application	Algae Type	Recommended AI Output
Irrigation storage Farm dams	Planktonic / Unicellular	0.2-0.5mg/L
Ornamental lakes	Filamentous / Mat-forming	0.5-1.0mg/L
Potable water supplies	Branched, plant-like algae	0.5-1.0mg/L

Copcide Rates for Achieving Recommended AI Output			
Water Volume L	0.2mg/L AI Rate	0.5mg/L AI Rate	1.0mg/L AI Rate
1,000	2mL	5mL	10mL
5,000	10mL	25mL	50mL
10,000	20mL	50mL	100mL
50,000	100mL	250mL	500mL
100,000	200mL	500mL	1L
500,000	1L	2.5L	5L
1,000,000	2L	5L	10L
5,000,000	10L	25L	50L
10,000,000	20L	50L	100L

Other products available from Amgrow

Freefall Aquatic Herbicide

Freefall from Amgrow is a unique aquatic herbicide for the control of floating weeds such as Azolla, Salvinia, and Lemna (duckweed) in dams, lakes and other closed water bodies.

Freefall is a blend of natural surfactants and orange oil that offers an aquatic weed management solution with minimal environmental impact and excellent user safety.



› Follow-up Considerations

Once Copcide destroys the algal population there may be a release of nutrient as algae begins to decompose. This is called eutrophication and often results in excess N and P being released into the water body. With new sunlight exposed and elevated levels of N and P now present, the water body becomes an inviting environment to further algal blooms.

The use of other specialised aquatic management products following application of Copcide is recommended to eliminate these factors. An integrated approach to the management of water bodies that include Copcide is recommended for effective, long term control and prevention of algal blooms.

Planktonic / Unicellular Algae



Filamentous / Mat-Forming Algae

