



## AgriTec weakens algae's defence layer, allowing natural bacteria to consume it.

Freshwater algal blooms are costing the Australian community over \$240 million a year. Increasing global temperatures are seeing greater and more prolonged toxic cyanobacterial blooms having a detrimental effect on valuable water resources.

Often water may remain toxic for a period after an algal bloom has visibly disappeared. The outdated use of algaecides results in potential cell lysis that leads to the release of toxins.

Producers are encouraged or prohibited to allow stock access to affected water for at least two weeks after a bloom is no longer present.

Alongside this, traditional copper sulphate treatments have limited bioavailability and without agitation settle to the bottom. Over time this can lead to harmful long-term environmental accumulation.

### The AgriTec advantage

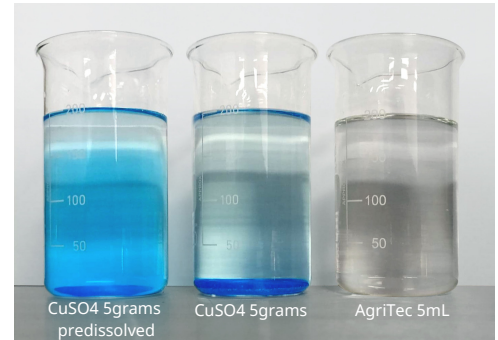
- **Rapid response within 7-10 days**
- **100% Bioactive Copper**
- **Economical: minimises stock hold out**
- **Effective control for up to 30 days**
- **Fast dispersion avoids sediment accumulation**
- **50-80% less copper**
- **Minimises cyanotoxins**
- **Minimal impact on ecosystem**

# AgriTec is used to control the rapid growth of algal blooms.

Many Algaecides take up to a week to see results allowing toxins to reach unsafe levels for animals. The addition of AgriTec at the recommended dose in dams and water storages can control algal blooms.

## Dispersion comparison Copper Sulphate v AgriTec

The picture on the right shows how Copper Sulphate does not disperse and aggregates on the bottom of the beaker unlike AgriTec, which immediately disperses.



## How much AgriTec is needed to treat a water way?

Litres of AgriTec applied to 1000 square meters to achieve:

Water Depth (cm)	1 ppm AgriTec = 60 ppb Cu	2 ppm AgriTec = 120 ppb Cu	4 ppm AgriTec = 240 ppb Cu	6 ppm AgriTec = 360 ppb Cu
10	0.1	0.2	0.4	0.6
20	0.2	0.4	0.8	1.2
30	0.3	0.6	1.2	1.8
50	0.5	1.0	2.0	3.0
60	0.6	1.2	2.4	3.6
100	1.0	2.0	4.0	6.0

## How is the AgriTec treatment applied?

AgriTec may be poured into the water manually after calculating the volume of water to be treated and measuring the quantity of AgriTec necessary to attain a concentration of 0.06 ppm of copper or by using an automated dispenser calibrated to release the required amount.

For best results disperse AgriTec evenly throughout the water on a sunny day when algae are near the surface.

## Is it cost effective and safe?

Results indicate that producers switching from copper sulphate to AgriTec, have fewer total applications per year and are applying <20% of the elemental copper used in previous years.

This brochure has been developed by Earth Science Labs Global for informational purposes. Please consult with your distributor for your specific requirements.