

**ProForce**  
**AgriTec**  
Aquatic Algaecide



## *Self Dispersing Aquatic Algaecide Formulation*

### Product Overview

AgriTec® is a unique, APVMA approved aquatic algaecide, containing the active ingredient Copper Sulphate Pentahydrate (226g/L).

It is registered for the control of free floating and filamentous algae species as well as Chara and Phormidium species in a range of aquatic situations including farm dams and ponds, irrigation canals, ornamental lakes, industrial ponds and potable water supplies.

### Key Features

- > Self Dispersing formulation that better distributes copper through the water body. AgriTec® application for 1.2 hectares or less may be poured directly into water bodies, with no dispersal required.
- > Remains effective in the top of the water body, where the algae growth is largely concentrated, reducing rates required to achieve effective results.
- > Release of cupric ion within the product is based on biological demand, as opposed to water conditions, providing higher effectiveness. As a result, this translates to lower application rates over other copper based products.
- > Effective in high pH conditions.
- > Easy to use liquid formulation, making measuring and dispersal much easier.
- > Irrigation water treated with AgriTec will not have adverse affects and may be used immediately to water fairways, putting greens and ornamental plants.
- > Swimming or fishing will not be affected by water treated with AgriTec.



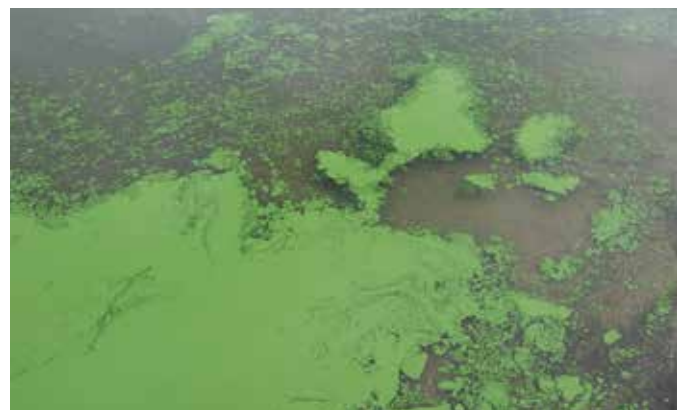
## AgriTec Aquatic Algaecide – Use Rates & Label Recommendations

Situation	Pest	Dose Rate (mg/L) See Dilution Rate Table below	Critical Comments
Farm dams and ponds, irrigation canals, ornamental lakes, industrial ponds, raceways and potable water supplies	<b>Free Floating Algae*</b> Such as Euglena, Microcystis, Aphanizomenon, Oscillatoria, Dictyosphaerium, Anabaena.	0.2-0.5mg/L Copper	Apply in bright sunlight and when algae are first evident. Remove any large floating mats of algae before applying AgriTec. Apply on a calm, wind free day to the water surface.  If heavily infested, re-treat after 10-14 days as necessary.
	<b>Filamentous algae*</b> Such as Spirogyra, Chlorella, Hydrodictyon, Cladophora, Oedogonium	0.5-1mg/L Copper	
	<b>Chara and Phormidium Algae*</b>	0.5-1mg/L Copper	

**\* For more information on algae identification, please contact Indigo Specialty Products. We offer an algae identification service upon request.**

Average Water Depth	Dilution Rate Table*		
	Amount of AgriTec per 1000 Sq. metres for desired Copper Content		
	0.2mg/L	0.5mg/L	1.0mg/L
10cm	340mL	850mL	1.67L
30cm	1L	2.5L	5.0L
60cm	2L	5.0L	10.0L
90cm	3L	7.5L	15.0L
100 cm	3.33L	8.33L	16.67L

**\* To assist in calculating dilution rate, please contact Indigo Specialty Products. We have a calculator to simplify this task.**



### Mode of Action

Traditionally, Copper based products have killed algae by binding to it in its ionic form. As many copper ions bind to the algae, this has resulted in damage to the algae cell wall integrity, causing them to leak and die. When this process occurs, key nutrients such as Nitrogen and Phosphorus tend to re-enter the water body providing potential for new algal blooms to occur.

AgriTec is unique for a number of reasons over traditional copper based products;

- AgriTec's mode of action differs to many copper products, in that it maintains the cell wall structure of the algae, preventing it from dispersing its cell contents back into the water. Instead AgriTec attaches and weights the algae and drops it to the bottom of the water body (away from sunlight) where endemic micro-organisms decompose it organically.
- It possesses self-dispersing agents which allow for even distribution in reservoirs and canals without spraying or agitation. Many copper based products sink immediately upon application and are unable to disperse where the free floating algae species are present.
- The release of the cupric ion within the AgriTec product is based on biological demand, as opposed to water conditions. This provides higher effectiveness, whilst also translating into lower application rates over other copper products.

### Maximising performance

- > For algae control, apply in the late spring or early summer when algae first appear.
- > The dosages are variable and depend upon algae species, water hardness, water temperature, amount of algae present, as well as whether water is clear, turbid, flowing or static.
- > Preferably, the water should be clear with temperature above 15.6 degrees Celcius. Apply on a calm, wind free day.
- > Higher dosages are required at lower water temperatures, higher algae concentrations and for hard waters. If heavily infested, re-treat after 10-14 days as necessary.
- > AgriTec is soluble and will quickly disperse. AgriTec application for 1.2 hectares or less may be poured directly into ponds, small lakes and reservoirs.
- > AgriTec application for 1.2 hectares or more should be applied at several points in the ponds, lakes or reservoirs. Larger bodies of water can be treated with AgriTec by dragging a feeder hose behind a boat across the body of water or dispensing via conventional spray equipment mounted to a boat, helicopter or airplane.
- > AgriTec will quickly diffuse throughout the water body in several hours; broad distribution of the product will speed dispersal and provide quicker control of algae.