

PHOS-BOND

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General features of blue- green algae-

Blue-green algae scientifically known as cyanobacteria, are microscopic single-celled organism that grow naturally in fresh and salt waters. They are not algae, but are a type of bacteria, possessing the ability to synthesize chlorophyll. They act like plant by using sunlight to manufacture carbohydrates from carbon dioxide and water. Blue-green algae have vesicles within their cells that they inflate with gas, thus they have the ability to sink and rise at their will and move to where nutrient and light levels are at their highest. Blue-green algae are advantageous over other algae because of their ability to control buoyancy to access areas of increased nutrients and light.

Blue-green algae affect water quality and promote disease-

Blue-green algae produces secondary metabolites i.e. toxins. Maintenance of appropriate water quality is essential in aquaculture farm management to ensure optimal growth and survival of aquaculture species. Poor water quality is linked with disease problems. The decomposition of dead algae consume large amount of oxygen and can cause oxygen deficit and increased concentration of toxic ammonia. This in turn kills aquaculture species. Blue- green algae produce toxins which may cause toxic and physical stress to fish/prawns. Blue-green algae produce taste and odour compounds and cause off-flavour problems.

Composition : A unique mixture of natural clay and rare active earth ingredients.

How PHOS-BOND works-

Phos-bond binds up the soluble inorganic phosphate in the matrix of clay. The phosphate is rendered bio-unavailable and can not be used to fuel algal growth. It binds 95% of the Filterable Reactive Phosphorus (FRR) forming an insoluble complex. Once the FRP is bound to PHOS-BOND , it is no longer bio-available for use by algae for assimilation and growth. The reduction of phosphate in aqua culture pond will promote increased N:P ratio which will promote growth of beneficiary algae , which are natural source for aquaculture species.

Dosage

Depending upon the colour of the pond water, 20-30 kg/h or as directed by the Aqua culture consultant.

Application

Mix required quantity in water and through proper aeration apply evenly over surface of the pond.

Packing :

10 kg and 20 kg paper bag.

