

Bioclean Aqua

Total pond management solution for freshwater lakes and for aquaculture



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BIOCLEAR AQUA

THE ALL-NATURAL BIOTECHNOLOGY MADE FOR FRESHWATER FISH

Bioclean Aqua is a proprietary blend of carefully selected naturally occurring microorganisms, enzymes and growth stimulating factors. It is a balanced formula of 94 different microbial strains, which work synergistically to lower the toxicity level in the pond and create a healthier and more beneficial environment for freshwater fish. The toxic pollutants are broken down to non-toxic by-products such as Carbon Dioxide and water. This is also evident when there will be a remarkable reduction in foul odours in the pond water. Bioclean Aqua boosts Ammonium, and ortho-Phosphate removal rate. Our microbial strains are competitors for food of pathogenic bacteria, which means Bioclean Aqua is able to lower pathogenic count significantly. The product optimizes the metabolic system of freshwater fish, resulting a much better food conversion ratio, and improved immune system for the aquatic animals. Bioclean Aqua is also a supplemental add-on for freshwater bioremediation processes executed with [Bioclean Pond Clarifier](#), focusing on the higher life forms in the aquatic ecosystem.



The stand-alone application of Bioclean Aqua is in aquaculture. In case of aquacultural ponds, and basins, it is preferable to pre-treat the water with Bioclean Aqua before introduction of the culture into the pond. The number of water exchanges can be reduced by using Bioclean Aqua. In aquaculture, massive quantities of organic compounds leach out from the feed into the pond water. These organic compounds may be rich in nitrate and phosphate, which disturbs the ecology of the pond by stimulating only certain type of life forms. The microbial communities become unstable. The toxicity of the pond goes up due to the incomplete decomposition of the organic matter. The discharge of fecal matter by the aquatic animals into the pond adds to the toxicity of the water. This deterioration of the water quality increases the culture's susceptibility to stress and disease. The partially decomposed sludge starts breeding certain pathogenic bacteria. High amount of toxic wastes induces blue green algae to thrive, and become unstable, the incidence of disease and stunted growth increases, and mortality rates soar. In response to these



MalaTECH
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Malatech Water Trading & Service, Ltd.

Address: 14. Orion str, 1214 Budapest, Hungary Telephone: +36-70-671-6781 • +36-30-377-8089

E-mail: info@malatechwater.com Web: www.malatechwater.com

problems we have created a unique microbial system, Bioclean Aqua for total pond management. Healthier fish, improved weight increase, and habitat, stronger immune system, less mortality rate, better taste can be expected by using Bioclean Aqua in aquaculture.

Our Bioclean Aqua solution for hatcheries in aquaculture is natural and biological designed for tackling the issues specific to hatcheries. It is formulated from multiple strains of microbes, which work synergistically to lower the toxicity levels in the growth habitats as well as create a healthier and more beneficial environment for the larvae and post larvae stages. In aquaculture, the vast amount of nutrition for animals (fish) is responsible for the deterioration of water quality as a habitat. The microbes and enzymes in Bioclean Aqua degrade the nutrient that is left unutilized. Apart from unutilized food, sludge formation is further aggravated by fecal matter emitted by the larvae, as well as pollution from other sources. This serves to an unhealthy environment and increases the susceptibility to diseases caused by pathogenic organisms. Bioclean Aqua is a complex solution for pathogenic bacteria count, fungal load reduction, and water quality improvement, including the breakdown of particulate, and soluble organic compounds, nutrient removal, and regulating heavy metal toxicity.

BIOCLEAN AQUA - FIELDS OF APPLICATION

- Freshwater Lakes
- Water reservoirs
- Oxbows
- Decoration ponds
- Slow-moving rivers, and canals
- RAS (Recycling Aquaculture Systems)
- Extensive, intensive, super-intensive, flow-through aquaculture systems
- Hatcheries

BIOCLEAN AQUA - THE BENEFITS

FRESHWATER LAKES, AND PONDS

- Can heal fish suffering from viral, or bacterial infections in an all-natural way
- Reduces pathogenic count
- Prevents, or radically lowers the risk of fish kills caused by bacterial or viral infections
- Prevents the overgrowth of multicellular algae, and various aquatic weed species
- Improves water transparency
- Improves self-purification processes
- Provides a better environment for fish and other higher aquatic life forms.
- 100% natural, GMO-free, only beneficial bacteria, isolated from soil, and water.



AQUACULTURE

- Promotes growth rate and hence production. Increases product weight.
- Improves feed conversion ratio.
- Decomposes organic sludge, reducing the need for water exchanges.
- Reduces Ammonium concentration, and hence controls algae, and aquatic weed growth
- Stabilizes Dissolved Oxygen levels, so that the fish can breathe easier.
- Stabilizes bloom conditions and prevents over-blooming of algae.
- Reduces off-flavoured product.
- Boosts immunity of animal, reduces mortality and improves survival rates.
- Allows higher stocking rates.
- Reduces number of days of growth cycle, hence time taken to market is lower.
- Improves animal health, improves immune reactions against diseases.
- Prevents and treats floating clumps resulting from dead planktons.
- Reduces formation of Hydrogen Sulphide.
- Reduces BOD and COD concentrations.
- 100% natural, GMO-free, only beneficial bacteria, isolated from soil, and water.

HATCHERIES

- Reduces the organic carbon load in water
- Controls foul odour by lowering Ammonia and Hydrogen Sulphide levels
- Ensures adequate Dissolved Oxygen levels
- Reduces BOD and COD concentrations
- Reduces fungal load
- Regulates heavy metal toxicity in water
- Reduction of Coliforms and other pathogens.
- Induces molting
- Strengthens the immune system of aquatic organisms
- Increases the survival rates
- 100% natural, GMO-free, only beneficial bacteria, isolated from soil, and water.

APPLICATION OF BIOCLEAN AQUA DOSING, TECHNICAL INFORMATION

For determining exact dosages for your lake, reservoir, pond, basin or hatchery, please provide us information by sending us our questionnaire filled with information as much as possible: [Click here for questionnaires!](#)

Whenever you have any questions, do not hesitate to [contact us!](#)

1) FRESHWATER LAKES

DOSAGE FOR ONE TREATMENT:

0.1-0.3 ppm per treatment based on lake's water volume. Exact dosage rate depends on water quality, ecological state of the lake, and the load of pollution/nutrients. Product should be premixed together with Bioclean Pond Clarifier.

NUMBER OF TREATMENTS PER YEAR:

4-8 treatments per year together with Bioclean Pond Clarifier, depending on water quality, ecological state, the load of pollution/nutrients, and geographic location of the lake.

METHOD FOR THE PROPER EXECUTION OF A TREATMENT:

Bioclean Aqua, and Bioclean Pond Clarifier must be premixed with water before application! Pure water, or preferably the lake's own water should be used! After stirred and mixed well, the suspension of Bioclean Aqua, and Bioclean Pond Clarifier must be sprayed onto the water surface by **EVENLY COVERING THE ENTIRE WATER SURFACE OF THE LAKE WITH THE SUSPENSION OF THE MIXTURE!**

DO NOT POUR THE DRY POWDER INTO YOUR LAKE! The material loss due to wind, and the inactivated powder remaining on the water surface will not make the treatment economical, your material loss will be decent!

For smaller lakes, treatments can be done from the shore from multiple locations by using a container for the suspension, and a pump with a sprayer. For bigger lakes treatments are done from a boat. Please check our website for more information:

<https://www.malatechwater.com/our-technologies/lake-bioremediation-aquaculture/>

2) SMALLER FRESHWATER (DECORATION/GARDEN) PONDS:

DOSAGE FOR ONE TREATMENT:

0.3-0.7 ppm per treatment based on pond's water volume. Exact dosage rate depends on water quality, the load of pollution/nutrients, and the number of fishes.

NUMBER OF TREATMENTS PER YEAR:

Once per month in season.

Rest is like described in section "1) Freshwater lakes" above.



3) AQUACULTURE PONDS

DOSAGE FOR ONE TREATMENT:

0.2-0.5 ppm per treatment based on lake's water volume. Exact dosage rate depends on water quality, ecological state of the lake, and the load of pollution/nutrients.

NUMBER OF TREATMENTS PER YEAR:

Once per every 2 weeks, or once per month in season.

Method for the proper execution of a treatment:

Like described in section "1) Freshwater lakes" above.

4) HATCHERIES

2-4 ppm from hatching to packing stage, based on water volume in the basin. Apply once in 2-3 days

PACKAGING INFORMATION

The product is available in 40 kg net plastic drums with safety lock, which is the lowest unit for ordering.

STORAGE INFORMATION

Keep the product in a cool and dry place below 30 Celsius. Avoid exposure to direct sunlight.