

BiOWiSH™ Aqua

Ponds, Lakes and Decorative Water Features

BiOWiSH™ is a proprietary composite biocatalyst that enhances a broad range of hydrolytic and oxidative biochemical reactions. BiOWiSH™ contains a novel consortia of metabolically cooperative microorganisms, with endogenous and exogenous enzymes, and small molecule metabolic co-factors which support both biocatalytic and metabolic activity. BiOWiSH™ products are composed of all natural materials and non-genetically modified.

In lakes, ponds and decorative water features, BiOWiSH™ Aqua is a revolutionary water treatment that accelerates biological removal of detrimental nutrients from the water including ammonia and nitrites. The result is simpler management to achieve consistent high water quality. The BiOWiSH™ Aqua will work well in both aerated systems and un-aerated systems.

Unlike other biological products, BiOWiSH™ will work synergistically with levels of chlorine typically found in decorative water features. In such cases the biological oxidation of wastes can improve chlorine stability and reduce chemical costs.

BiOWiSH™ Aqua family of products are used in commercial production ponds, wastewater treatment, nutrient management and odor control.

How safe is BiOWiSH™ Aqua?

Natural, BiOWiSH™ Aqua has no detrimental effects on plants or animals and is safe for everyday use in a wide range of consumer and industrial products. Aquatic toxicity testing has shown that BiOWiSH™ Aqua is non-toxic at recommended dosage levels.

BiOWiSH™ Aqua is safe for everyday use in a wide range of consumer and industrial products. It has been proven to solve problems in environmental management (including wastewater, solid waste, soil and water remediation, and industrial emissions), as well as agriculture.

BiOWiSH™ Aqua has no adverse environmental consequences. It decomposes into water, carbon dioxide and nitrogen gas leaving no residual in ponds. Average activity time in a system is 2 - 4 weeks.

Available sizes:

- 100g / 3.5oz
- 1kg / 2.2lb
- 5kg / 11lb
- 10kg / 22lb



The following benefits have been observed:

Improved Water Quality:

- Removal of organic wastes
- More efficient nitrogen cycle – decreased levels of Ammonia (NH₃) and Nitrates (NO₂)
- Reduced algae growth due to reductions in available nitrogen levels
- Reduced odor levels from organic matter
- Improved dissolved oxygen levels (*see Important Notes)
- Reduced sludge accumulation
- Reduced need for pond clean-outs, improved pond bottom
- Increased chlorine stability leading to reduced replacement of chlorine where used

Expense Reduction:

- Reduced need for water exchange and aeration
- Reduced need to empty and clean walls and sludge
- No other sludge digesters, denitrifiers etc. required
- Reduced need for chemical treatments

Environment, Safety & Sustainability:

- Reduced water discharge volume
- Optimized water discharge quality
- Reduced chemical handling and discharge
- Reduced energy use for aeration and pumping

Dosing:

What dosing rates should I use?

The optimal dosing rate will depend on the following factors:

- The volume of water to be treated.
- The amount of organic matter on the bottom of the lake or pond.
- The organic load that enters into the pond.
- Treatment objectives

Dosing for most applications is recommended at 0.5mg/L every 2 weeks.

Initial shock doses of 3.0mg/L are recommended for systems with high levels of organic material.

Systems with high loading during summer months should be dosed at 1mg/L every 2 weeks.

Dosing can be adjusted to meet treatment outcomes.

IMPORTANT NOTES:

- Ponds with high organic load bottom sludge that also have aquatic life should reduce the initial dosage of BiOWiSH™ Aqua and use a progressive increase in dosage to avoid rapid breakdown of organic matter which can cause temporary oxygen depletion in the pond.
- BiOWiSH™ Aqua will not operate effectively in the presence of some chemical products such as disinfectants and antibiotics. Please maintain a chlorine level below 3ppm and a pH range of 4.5 to 9.0.
- SAFETY: This product is classified non-hazardous and non-flammable. To download Material Safety Data Sheets, and Hazard or First Aid Information, go to www.biowishtech.com/msds.
- TECHNICAL SUPPORT: Please contact a distributor near you or email info@biowishtech.com.

General Recommendations:

- Simply add the BiOWiSH™ Aqua powder to a container filled with water, provide a small amount of stirring, and allow 15 minutes to solubilize prior to adding the solution to the lake, pond or decorative water feature. No activation period is required.
- For larger systems, dispersion across the surface area is recommended. In systems with circulation, add into flow.
- Use BiOWiSH™ Aqua mixture within 7 days of mixing into solution.

Contacts

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Biological Help for the Human Race™