

## BiOWiSH™ Aqua

### Ponds, Lakes and Decorative Water Features

#### What is BiOWiSH™ Aqua?

BiOWiSH™ is a proprietary composite biocatalyst that enhances a broad range of hydrolytic, oxidative and reductive 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 provides an easy-to-manage water treatment system that accelerates biological removal of detrimental nutrients from the water including ammonia and nitrites. BiOWiSH™ Aqua works well in both aerated and un-aerated systems for consistent high-water quality.

Unlike other biological products, BiOWiSH™ works 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™ also has a unique capability to denitrify efficiently at high dissolved oxygen conditions typical of decorative water features.

The BiOWiSH™ Aqua family of products is used in commercial aquaculture ponds, wastewater treatment, nutrient management and odor control.

#### How safe is BiOWiSH™ Aqua?

BiOWiSH™ Aqua has no detrimental effects on plants or animals and is comprised of organic and 100% biodegradable materials. Aquatic toxicity testing has shown that BiOWiSH™ Aqua is non-toxic at recommended dosage levels.

BiOWiSH™ Aqua 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 residues.

#### Available sizes

100g / 3.5oz

1kg / 2.2lb

5kg / 11lb

10kg / 22lb



## Benefits

### Improved Water Quality

- Removal of organic wastes
- More efficient nitrogen cycle – decreased levels of ammonia (NH<sub>3</sub>) and nitrates (NO<sub>2</sub>)
- Reduced odor levels
- Improved dissolved oxygen levels (\*see Important Notes)
- Reduced bottom sludge accumulation
- Reduced surface scum
- Reduced need for pond clean-outs
- 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 and Sustainability

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

## 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.

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## Important Notes

- Ponds with high organic load and 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 6.5 to 8.5.
- 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](http://www.biowishtech.com/msds).
- TECHNICAL SUPPORT: Please contact a distributor near you or email [info@biowishtech.com](mailto:info@biowishtech.com).

## General Recommendations

- Simply add the BiOWiSH™ Aqua powder to a container filled with water and stir 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 14 days of mixing into solution.

## Contacts

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