

BioSphere Aqua Pro

Technical Specifications and Application Instructions

Product Description:

BioSphere AgriTech Aqua Pro is a massively diverse consortium of bacteria, fungi, and enzymes designed to eliminate algae blooms and restore waterways to a healthy environment for plant and animal life without the use of dangerous chemicals. It will clean up the gunk that clouds up ponds, lakes, pools, and streams as well as aid in pH balancing the water, making it healthier to swim in or use for feeding plants.

Product Specifications:

Bacillus Mucilaginosus	3.5x10 ⁸ cfu/g
Bacillus Subtilis	4.0x10 ⁷ cfu/g
Bacillus Licheniformis	2.0x10 ⁷ cfu/g
Trichoderma Harzianum	3.6x10 ⁷ cfu/g
Glomus Intraradices Endomycorrhizae	25,000
Propagules/Lb Cellulase	600 CU/g
Hemicellulase	600 HCU/g
Xylanase	600 HCU/g
Appearance:	Fine light tan powder
Solubility:	100% in water (some powder may remain in Suspension)
Bulk Density:	1.7 mL / gram or 26.08 fluid oz / Lb

Benefits:

Chemical free cleaner of pools, ponds, lakes, and rivers.

1. Makes nitrogen and phosphorus food sources unavailable to algae in waterways.
2. Prevents nitrogen and phosphorus runoff into waterways when spread on surrounding areas.
3. Breaks down and devours algae cells.
4. Naturally balances pH levels in pools and ponds.
5. Makes water used for agriculture very healthy for plants, including a healthy microbiome.
6. Creates a healthy aquatic environment for wildlife and for swimmers.

Directions for Use:

Lake, Pond, or Pool Instructions:

1. Calculate the gallons of water that you are treating.
 - a. Gallons = Cubic Feet x Weight per Gallon of Water
 - i. Cubic Feet = (Length of waterway) x (Width of waterway) x (Depth of waterway)
all in feet
 - ii. Weight per gallon of water = 7.48 lbs
2. Pre-mix water from the waterway in a pail with BioSphere Aqua Pro.
 - a. Add 1 gram of BioSphere Aqua Pro to the pre-mix for every 1,000 gallons of water in the waterway.
 - b. Stir or shake until the product is fully mixed in with the water.
3. Dump pre-mix into various areas of the waterway by dumping small amounts all around the edges. Larger ponds and lakes will require applying some to the center areas as well.
4. To reduce leaching of nitrogen and phosphorus into waterways apply BioSphere Aqua Pro at a rate of 3.4 oz (96.4 g) to 6.8 oz (192.8 g) per surface area acre.

Note: Avoid mixing biocides in the tank with BioSphere Aqua Pro as it may reduce viable microbial counts at the time of application.

River and Stream Instructions:

1. Calculate the surface area of acreage of the waterway you are treating.
 - a. Surface Area Acre = $\frac{(\text{Length of treated area in feet}) \times (\text{Width of treated area in feet})}{\# \text{ of square feet per acre}}$
 - b. Square Feet per Acre = 43,560
2. Pre-mix water from the waterway in a pail with BioSphere Aqua Pro.
 - a. Add 4 oz (113.4 g) to 8 oz (226.8 g) per surface area acre calculated.
3. Dump pre-mix into the river or stream.

Note: Bio-D Aqua Pro will flow downstream with the water. The effects may be seen greater downstream than at the location where the pre-mix is dumped.

Drip Irrigation Instructions:

1. Use the same instructions for tanks as the above pools, ponds, and lakes instructions keeping in mind the type of plants you are growing.

Note: Avoid mixing biocides in the tank with BioSphere Aqua Pro as it may reduce viable microbial counts at the time of application.

* * Also, do not use BioSphere Aqua Pro if you are applying this water source to a mushroom grow as Trichoderma species may be damaging to mushrooms.

Recommended Application Rates:**Pools, Ponds, and Lakes:**

Apply 1 gram for 1,000 gallons of water in the waterway.

Streams and Rivers:

Apply 4 oz (113.4 g) to 8 oz (226.8 g) for each surface area, acre of water.

Areas Surrounding Waterways:

Apply 3.4 oz (96.4 g) to 6.8 oz (192.8 g) per surface area acre of land to banks and surrounding areas to reduce nitrogen and phosphorus runoff into waterway.

Drip Irrigation:

Apply 1 gram of 1,000 gallons of water in a tank.