

# Advanced BioTech

Developer of MultiFIX™ and BioWorld Products™

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## Algae Treatment Products

- Ponds
- Lakes
- Irrigation Canals

No More Clogging of Screens and Filters



Now available from BioWorld Products

- **Bioremediation Products**
- **Wastewater Treatment Products**
- **Odor Control Products**
- **Agricultural – Soil Enhancement**

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## ALGAE TREATMENT TECHNOLOGY

### Advantages

- The very best solution for stringy and mat-type algae
- Environmentally safe and natural treatment
- Easy to apply - no protective clothing required
- Effective deterrent to future algae formation
- Lower cost than toxic chemicals over several years
- Wildlife will flourish
- Water can safely be used for irrigation
- Long-term solution to balance ecosystem



### What It Is

- Enhancement: a biotech formulation of liquid compounds, vitamins, and minerals which maximize the ability of microbes to reproduce and thrive in the water system
- Augmentation: mature strains of selected, naturally occurring Algae Competitor and Organic Degrading microbes
- 2-pronged approach creates very efficient algae treatment and debris decomposing processes

### What It Does

- Out competes the algae for the nutrients in the water
- Produces enzymes that naturally break down the algae cell walls
- Digests dead algae and organic debris on the bottom or that may float to the surface

### What To Observe

- Discoloration of algae from green to brown to black as photosynthesis is disrupted
- Organic debris from previous years algae may surface and will be digested
- Water becomes clearer with the fish and bottom more visible after stringy algae is eliminated
- Odors from the water will be minimized or eliminated

BioWorld Algae Treatment uses a unique combination of bioenhancement compounds and mature strains of selected, naturally occurring microorganisms for the safe and natural treatment of algae. The special Liquid Optimizer formulation maximizes the ability of the microbes to reproduce and thrive in the water system. Algae Competitor Microbes consist of various microbial strains that out compete algae for the nutrients in the water. The microbes also produce enzymes that break down algae cell walls leaving other life forms unharmed. BioWorld Algae Treatment is environmentally safe, non-hazardous, non-toxic, non-corrosive, non-flammable, and non-pathogenic.

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## Liquid Optimizer

#35014 – 1 gallon BioWorld Liquid Optimizer

#35064 – 6 gallon BioWorld Liquid Optimizer

## Algae Competitor Microbes

#30086 - ½ pound Algae Competitor Microbes

#30055 - 2½ pounds Algae Competitor Microbes

#33086 – ½ pound Green Water Microbes

#33055 – 2½ pound Green Water Microbes



## Small Project Combination

#80186 Small Algae Treatment Unit

(Contains 1-gallon Liquid Optimizer & ½ lb Algae Competitor Microbes)

#83186 Small Green Water Treatment Unit

(Contains 1-gallon Liquid Optimizer & ½ lb Green Water Microbes)

#80196 4 to 6 week Algae Treatment Supply

(Contains 6 x 1-gallon Liquid Optimizer & 6 x ½ lb Algae Competitor Microbes)

#80198 Large Algae Treatment Unit

(Contains 2 x 6-gallon Liquid Optimizer & 12 x ½ lb Algae Competitor Microbes)

## Composition and Physical Properties

Liquid: Bioenhancement Compounds, Vitamins, Minerals, Amino Acids, Polysaccharides, Esters, Alcohols, Oils, Proteins, Natural Liquid Enzymes, Organic Surfactants, Odor Neutralizing Compounds

pH: 5.5 – 6.5

Boiling Point: 212°F/100°C

Freezing Point: 32°F / 0°C

Solubility in Water: 100%

Specific Gravity: 1.0028

Appearance & Odor: Blue-Green; Floral Scent

Dry: Selected algae competitor strains, natural enzymes on a bran carrier.

Concentration: Maximum viable CFU/gram, strain and type dependent

Form: Free Flowing Powder

Color: Light Brown

Odor: Yeast Like

pH: Neutral

Effective pH Range: 5 – 9

Effective Temperature Range: 50 – 110°F

BioWorld Algae Treatment can be safely used in irrigation systems, lakes, hydroelectric waterways, aquaculture, golf course and park ponds.

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## Algae Treatment Project Irrigation Lake – 30 Acres



**One week after first treatment.**

Note: This photo angle with island at top left.



**After three weekly treatments.**

Note: This photo angle with island at top left



**After eight weekly treatments.**

Note: This photo angle with island at top left.

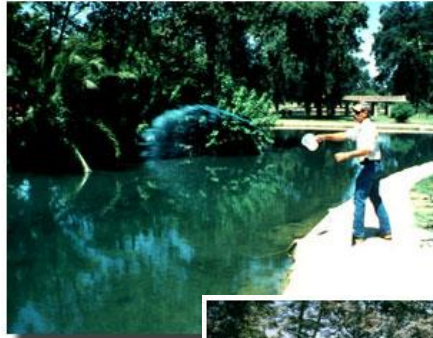


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## Park Algae Problem Resolved with BioWorld Algae Treatment Products

Easy Mixing—Hydrate microbes for 10 minutes



Apply BioWorld Liquid Optimizer (Blue Product)

In same location: apply BioWorld Algae Microbes (Brown product)



Safe and Easy to Apply – No Protective Clothing Required



Park with filamentous algae covering about one third of a 3 acre pond



Algae begins to discolor and debris is breaking up.



The pond is clear of surface and subsurface filamentous algae.



BioWorld Products used:  
35064 – BioWorld Liquid Optimizer  
30086 – BioWorld Algae Competitor Microbes