

# BIO POND



THE BIOLOGICAL WATER SOLUTIONS  
FOR PONDS, LAKES AND WASTEWATER TREATMENT

CLEARs WATER NATURALLY BY REMOVING EXCESS NUTRIENTS



Bioinnovation for Soil and Water



- All-natural, extremely concentrated beneficial microbes
- Reduces ammonia, nitrate, nitrite and phosphorus
- Reduces toxic blue-green algae, hydrogen sulfide, and odors
- Binds phosphate, reduces water salinity, COD, and BOD
- Reduces organic waste, bottom sludge and suspended solids
- Safe for fish, pets, birds, livestock, plants and wildlife
- Helps maintain optimum pH and create a balanced ecosystem
- Highly effective biological filtration process of mineralization, nitrification and denitrification



### BIOPOND

Concentrated formula, easy to use biodegradable packet and superbly cost-effective for all general water treatment solutions.



### BIOPOND PLUS

Super concentrated formula solution in biodegradable packets for quick and demanded large ponds and lakes treatment.



### BIOPOND RAW

Incubation solution for extremely concentrated formula to treat large ponds, lakes, rivers and industrial, municipal wastewater.



## CLEARs WATER NATURALLY BY REMOVING EXCESS NUTRIENTS

## HOW BIOPOND WORKS

- A blend of naturally occurring beneficial aerobic and facultative anaerobic microbes
- Effective in reducing water column nutrients in lakes, ponds, and organic wastewater
- Improves water quality without the undesirable side effects of chemical treatments
- Rapidly metabolizes excess nutrients and pulling them from the water column
- Using microbial desalination cells to reduce water salinity
- Easy to apply biodegradable packets or simple incubation for industrial applications
- Formulated and manufactured in the USA to ensure the highest quality and consistency

# Eutrophication and Algae Blooms are Today's World Headlines

## GLOBAL DEMANDS FOR SUSTAINABILITY OF WATER TREATMENT SOLUTIONS

BIOPOND IS YOUR ULTIMATE WATER TREATMENT SOLUTIONS

- Ponds, lakes, lagoons and all general water treatment solutions
- Agriculture water supply sources, reservoirs, and canals
- Industrial and municipal wastewater treatment plants



## BIOPOND - THE BIOLOGICAL WATER SOLUTIONS FOR PONDS, LAKES AND WASTEWATER TREATMENT

### Why Microbe Works

The keys to our biological technology are the beneficial microbes

The application of beneficial microbes is the key to a healthy water environment, effortless, all-natural, eco-friendly simple solution to manage ponds, lakes and wastewater treatment in a balanced ecosystem. Beneficial microbes are "good" bacteria, naturally occurring microorganisms that perform their work by producing enzymes and provide intelligent to detect the organics present to continue produce specifically those enzymes needed to break down the organics present. These microbes are capable of improving water quality and clarity by targeting organic particulates and excess nutrients, such as Nitrogen and Phosphorus, brought in by various sources. Since they are naturally occurring and present in low concentrations that are not able to affecting the water quality and clarity on their own. Our application of concentrated beneficial microbes can exponentially boost their populations giving them the ability to affect water quality and clarity.

### Nitrification and Denitrification

The total nitrogen removal using biological technology

BioPond is a unique wastewater nitrification and denitrification technology to effectively provide solutions for both industrial and municipal wastewater treatment plants through bioaugmentation, designed to reduce the BOD, COD, stabilize their ratio and reduce wastewater odors.

### Organic Waste and Sludge Reduction

Bioaugmentation for avoiding dredging costs and improving water quality

BioPond is a biological waste and sludge reduction solution alternative to the costly dredging. The combination of beneficial microbes, enzymes, and essential nutrients stimulates biological activity in the sludge layer. BioPond is a breakthrough sludge reduction biotechnology for wastewater and offers a new way to minimize settled sludge volume and reduce solids handling costs in wastewater lagoons.

### Wastewater Odor Control

Bioaugmentation for eliminating odors in wastewater treatment facilities

BioPond is a biological wastewater odor control biotechnology that eliminates existing odors in the wastewater treatment facilities and stops odors from forming in the very first place. As microbes degrade odors causing compounds, odors simply disappear. BioPond is a proprietary formulated for immediate odor elimination and odor degrading microbes that biological stimulant for long lasting odor control solutions.



“BioPond is your ultimate solutions for beautiful, **CLEAR** and **CLEAN WATER.**”

# BIOPOND

## THE BIOLOGICAL WATER SOLUTIONS

### EASY APPLICATION

BioPond application is simple and costs efficient solution available either by the biodegradable packets ready to toss or easy to incubate for industrial cost effective applications. The dosage is calculated based on the volume of water in acre-foot.

**Contents:** Enzymes, naturally microbes, micronutrients and mixed non-pathogenic.

**DOT Classification:** Non-toxic, non-hazardous and non-corrosive.

### BIOPOND

**Initial Dosage:** 1g treats 80 gals or 0.5oz treats 1200 gals of water or 3 pounds per acre-foot of water.

**Maintenance Dosage:** 1g per 160 gals or 0.5oz per 2400 gals of water or 0.5 pound per acre-foot of water per week. Apply 4 times per month. 0.5 pound (225g) bag treats 10,000 gals of water for 1 month.

### BIOPOND PLUS

**Initial Dosage:** 1g treats 320 gals or 0.5oz treats 4800 gals of water or 1 pounds per acre-foot of water.

**Maintenance Dosage:** 1g per 640 gals or 0.5oz per 9600 gals of water or 0.5 pound per 4 acre feet of water per week. Apply 4 times per month. 0.5 pound (225g) bag treats 40,000 gals of water for 1 month.

### BIOPOND RAW

**Application Dosage:** Every 50g per 1000 cubic meters of water or 0.8 acre-foot of water.

**Initial Treatment:** Incubate and apply 50g every 3 days for the first 2 weeks, thereafter incubate and apply 50g every week until resolved.

**Incubation mixing instruction before applying:** 50g (2oz) of BioPond Raw + 50g (2oz) of sugar + 100 liters (25 gals) of water. Aerate (using water pump) for 24 hours before apply.



December 4, 2014  
Rava Ranches, Inc. - Paso Robles, California

*"The results were significant even after the first application. The visual aspects of the water, algae growth and clarity of water were evident to the naked eye. The water quality tests showed the pH was balanced, the salts and nitrate levels were reduced, even with a heavy population of geese and ducks.*

*We have been very pleased with the results and the mitigated costs to control a problem we had experienced for a couple of years. The aesthetics of a beautiful body of water, along with improved quality of water for irrigating the vineyard is definitely a win-win."*

-- Suzanne Rava



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