

Management & Restoration of Golf & Farm Ponds © 2010

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ECOPROBIOTICS®, of the Bacta-Pur® System, are beneficial communities of natural bacteria, which have been on earth for millions of years and have been selected for their synergistic ability to biodegrade pollutants and to improve water quality. ECOPROBIOTICS® increase biodiversity. Just as people take probiotic yogurt for its' ability to assure the presence of the optimal community for digestion and immunity, ECOPROBIOTICS® improve ecosystem health. EVERY PRODUCTION of Bacta-Pur® products is analyzed and cleared for shipment ONLY after passing all performance tests and being CERTIFIED PATHOGEN FREE using techniques from the food industry. ECOPROBIOTICS® are purely natural and beneficial; they NEVER contain added chemicals such as surfactants, emulsifiers or enzymes..., nor do they contain genetically modified (GMO) or deliberately mutated organisms. ECOPROBIOTICS® are safe and beneficial. Disease causing organisms are never used, as others do or permit. All bacterial cultures in Bacta-Pur® products are listed on the Canadian DSL.

Summary	
SYMPTOMS	TREATMENT BENEFITS
• water has poor clarity	• clarify water
• fish gasping for air	• facilitate oxygenation
• excess sludge accumulating on bottom	• solubilize organic deposits
• excess nitrogen (ammonia, nitrite and nitrate)	• convert wastes into natural fish food
• excess algae and/or aquatic weeds caused by high levels of soluble phosphorus	• reduce soluble phosphorus

Causes of Poor Water Quality

Accumulation of dead plants and animal wastes, in ponds, become organic sludge, which results in oxygen depletion and release of noxious pollutants such as ammonia and hydrogen sulfide. Oxygen can be reduced to levels causing fish kills. The stress caused by poor water quality also reduces fish growth and makes them more susceptible to diseases.

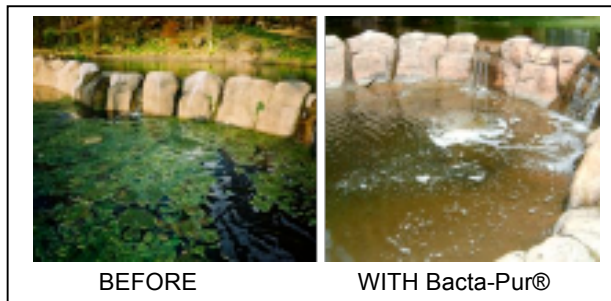
Benefits of Use of Bacta-Pur® POND

Bacta-Pur® POND was developed specifically for use in shallow golf and farm ponds with a surface area greater than 1000 sq ft or 100 m². Bacta-Pur® POND digests both the solid and soluble pollution. The water clearing microorganisms in Bacta-Pur® POND use these wastes as food for their growth. The by-products of this natural water clearing process are water, carbon dioxide and bacterial biomass, which is rich in protein. In a pond with fish or invertebrates such as snails or crayfish the animals eat the microbial biomass. Thus, wastes are converted by Bacta-Pur® POND into natural fish food.

Treatment with Bacta-Pur® POND

The Bacta-Pur® POND should simply be diluted, 10-100 times with pond water, to assure even application and then sprayed onto the surface. Irrigation systems particularly impulse sprinklers can facilitate applications.

WEEKLY DOSE RATES: FOR PONDS ≤ 4-ft (1.2-m) deep 1 US Gal. / ½ acre (2 qt / 10,000 sq ft), 2 L / 1000 m². FOR WATER BODIES > 4-ft (1.2-m) deep 1.5 US Gal. / 1 million gallons, 1.5 L / 1000 m³.



NOTE: It is important to assure the continual presence of oxygen at the sediment-water interface for the survival of the bottom dwelling fishes and invertebrates. Bottom mounted air diffusers are a most cost-effective means to assure a well oxygenated pond.



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