

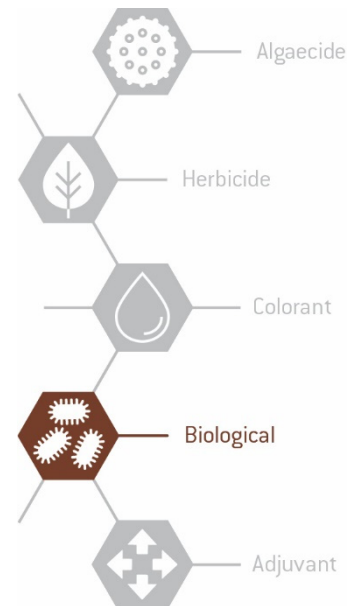
Bacti-Klear®

Aquatic Microbial Blend

Applied
Biochemists®



Beneficial bacteria reduces muck-related odors



Bacti-Klear® Aquatic Microbial Blend is a blend of beneficial bacteria designed to consume organic matter, improve water clarity and reduce odors in lakes and ponds. Creates a balanced pond.

Advantages

- Ideal for use after algaecide or herbicide application to consume decaying matter
- Use with diffused aeration to increase the oxygen in the water and decompose materials more rapidly
- Maintenance dose helps maintain a healthy pond
- Beneficial bacteria produces enzymes - Lipase, Protease, Amylase, and Cellulase
- Available in liquid and pellet form

Application

Determine the volume of the lake or pond. Then dilute and apply the liquid by spraying over the treatment area. For pellets, apply using a spreader or hand scoop.



Restrictions & Regulatory Information

There are no general water use restrictions applicable at label rates.

Specifications

Active Ingredient(s)	Contains sludge-digesting bacteria and enzymes
Appearance	Brown liquid or pellets
Dosing	Start-Up Application 3 gal./acre-ft or 20 lbs./surface acre Maintenance Application 1.5 gal./acre-ft or 10 lbs./surface acre

Packaging

SKU Number	Unit Size	Case Count	Case Weight	Pallet Count	Pallet Weight
395304A	1 gallon	4	36 lb	42	1559 lb
395348P	10 pound	4	42 lb	21	929 lb
13248P	50 pound	1	54 lb	18	972 lb



Figure 1. For use in residential swimming areas such as docks and beaches to reduce sediment "muck" buildup.

ALL ABOUT ENZYMES

What are pond or lake enzyme or microbial products?

Enzymes are part of a group of organic proteins known as amino acids and are found in all living things. Enzymes are small biochemical digesters. These molecules feed off of dead plants / weeds, waste from pond inhabitants, and nutrients washed in after storms. Enzymes help to digest the over abundance of these nutrients. They break apart vitamins, minerals, proteins, carbohydrates, fats, etc. and make them absorbable. Enzymes absorb these unwanted materials and turn them into carbon dioxide. This breakdown process occurs naturally in water, however, by adding enzymes the process can be accelerated, improving water's appearance. When enzymes and natural bacteria diminish water-borne contaminants, the by-product becomes nitrogen and water, providing a clean and clear environment.

What else can help the enzymes work?

Enzyme treatments work more effectively with aeration, by turning water aerobic. Aerobic means that there is oxygen present. Aerobic water also helps to eliminate odors.

What is the mechanism by which enzyme products perform?

Due to the extremely complex chemical composition of enzyme products, the exact nature of how the enzyme product actually works would be nearly impossible to define, since each water body is unique. What is known is that the intricate interplay between the active ingredients of the enzyme product and the naturally occurring bacteria results in a dramatic reduction of organic contaminants [BOD (biochemical oxygen demand), COD (chemical oxygen demand), TSS (total suspended solids), TPH (total petroleum hydrocarbons), odor, etc.].

How are enzyme products measured?

Colony-forming unit (CFU) is a measure of viable bacterial or fungal numbers. CFU measures viable cells in solution. Therefore, it is the microbiological load or the concentration (CFU/milliliter or gram) of the colonies in the product.

Always read and follow product label.

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