



www.wash-water-treatment.com

- Wash Water Recycling and Treatment Systems
- Detergent • Accessories • Replacement parts

EnBio™
Biological Treatment Systems

EnBio™: Biological Treatment System

Car wash systems and wastewater treatment systems are typically not designed to remove wastewater odors. Through the decomposition of accumulated contaminants in the water and existing bacteria as well as certain chemicals, odorous gases can be created. The EnBio™ product eliminates odors by out competing naturally occurring bacteria, consuming the food source and forcing their die off so that those bacteria cannot cause odors.

Bacterial digestion is the process of bacteria, consuming organic matter. Enzymes act to break the organic matter into water soluble nutrients, which the bacteria then digest. Using complex chemical reactions, the bacteria metabolize the organic waste down to water and carbon dioxide (the final metabolic waste products), providing the bacteria with energy for growth and reproduction. Organic waste is consumed by the bacteria, used as nutrients by the bacteria and is no longer present to produce odors, sludge, pollution, or biological growth.

EnBio™ is a combination of all natural bacteria, enzymes with nutrients. EnBio bacteria/enzyme blends are targeted to the food sources typically found in an industrial wastewater stream and treatment system.

EnBio™ bacteria cling to the containers they are injected into and they propagate at an extreme speed, doubling their number every 15-20 minutes. They become dispersed throughout the entire system eating non-stop 24 hrs/day which means coalescing media stays cleaner, filter bags (reducing bag changes), valves, sight glasses, flow meter sensors, pump heads, piping and other devices in the piping system stay cleaner requiring less cleanup. Wherever the water goes the bacteria goes too and continue to eat the contaminants.

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Dosing

Liquid can be manually or automatically dosed into the treatment system with our dosing system which gives you multiple dosing events throughout the day/week.

The daily EnBio™ concentration added is 20 ounces per 500 to 1,500 gallon system per day. You will set the dosing system per the IOM instructions to continuously dose throughout the day, seven days per week. EnBio™ is available in 1, 5 and 55 gallon volumes.

EnBio™ bacteria and enzymes are chosen for their ability to selectively consume targeted contaminants such as fuels, oils, solids and sludge. We select only facultative strains of bacteria that function and flourish in aerobic (with oxygen) or anaerobic (oxygen depleted) environments. Our bacteria are most effective in an aerobic state working 5-7 times faster. Other factors important to a bacteria's existence are high and low pH, chemical shock and temperature as well as sufficient food source. EnBio bacteria flourish best the closer to the neutral pH of 7 the water is. They are resistant to disinfectants like chlorine up to 150 PPM.

EnBio™ bacteria consume contaminants such as organic matter, oils, grease, other petroleum products like heavy and light fuels (DNAPL/LNAPL) and soluble solvents.

The bacteria propagate within sump bottom solids reducing the sludge load, freeing oils and grease and digesting them. Using EnBio™ can reduce sludge hauling frequency and cost.

For use in:

- ◆ Oil water separators
- ◆ Car and truck wash treatment /recycling systems
- ◆ Marine bilges
- ◆ Recycled washwater storage tanks
- ◆ Wash facility basins/collection sumps
- ◆ Groundwater remediation systems
- ◆ API oil water separators
- ◆ DAF systems
- ◆ Septic leach fields plugged with petroleum products

