

Simple Solutions for Complex Wastewater Treatment

MicrobeLift SA Bioremediation Technologies

Bacteria is widely used for industrial, municipal, agricultural and residential applications in breaking down organic wastes, which includes wastewater treatment solution. These bacteria are versatile and are able to degrade almost every complex materials into simple molecules.

Ecological Laboratories Inc, with more than 40 years of experience in bacteria culture selection and bio-product formulation, produces MICROBE-LIFT, a product of intensive research and one of the world's best bioaugmentation product which allows nature to keep up with new, manmade compounds and also concentrations of pollutants that are higher than what would normally occur in nature.

In wastewater treatment, residues often settle into solids and are referred to as sludge or the residual semi-solid material. This sludge creates problems of disposal and contributes to the degradation of the water quality. The *Microbe-Lift/SA (Sludge Away)* is a highly active microbial accelerator that is designed specifically to speed the biological oxidation process of slow to degrade organic matter in wastewater systems, ponds, lagoons and wastewater retention tanks. It comprises of naturally occurring Non-Toxic soil microorganisms, environmentally safe for wastewater systems; will not harm humans, animals or aquatic life. It contains only active natural organic based humates and humic constituents. These natural reactive compounds consist of most, if not all of the biological compounds synthesized by living organisms, including plants. Humus is known to include a broad spectrum of organic constituents, many of which have their counterparts in biological tissue. These natural compounds have shown to significantly speed the microbial response to difficult to degrade organic matter. This enhanced microbial response has resulted in significant reduction in sludge volumes via the rapid oxidation of many non-biodegradable and slow to degrade organic compounds.

Pictures are worth a thousand words

The following are actual pictures of Microbe-Lift SA treatment programs locally and internationally. Once you see them, you will want to know more about how MicrobeLift SA can help you and your community.



An Egg Producer Waste Pond in Batangas, Philippines before treatment



The same pond after 4 months of treatment with MicrobeLift/IND -SA



A Textile Manufacturer Waste Lagoon in South America where the water is dye colored and presence of scum is visible



Water is dramatically cleaner after treatment with MicrobeLift

Microbe-Lift SA is known to be effective and beneficial in such of its functions:

- MicrobeLift/SA has shown to enhance the biological oxidation of slow to degrade organic waste solids by as much as 80% over historical system performance.
- This novel microbial accelerator may be used in conjunction with MICROBELIFT bacterial cultures to improve overall system performance in all types of wastewater processes.
- This combination speeds the overall biological oxidation of BOD, COD and sludge accumulations such as difficult to degrade compounds, fatty acids, hydrocarbons and fibrous matter (it was designed to promote rapid solids removal).
- MicrobeLift/SA works excellently in odor abatement as it contains natural cellular constituents that include un-reacted lignin compounds that permanently bind odorous compounds on contact. Stopping biological gaseous reactions such as H₂S on contact, reducing associated biological gaseous reactions, as well, as associated corrosion.

We provide total system and technical support to solve your water pollution and waste treatment problem by:-*1. Innovative Treatment Plans*

Identifying problems that need to be solved via systematic survey forms, establishing goals and defining criteria for success;

2. Sustainable Natural Solution

Providing an environmental friendly treatment solution to achieve an ecological balanced system through natural microbial remediation and bioaugmentation technologies. Review results to adjust & maintain sustainable long-term performance and satisfaction;

3. Cost Effective and Efficient

An innovative solution that is very cost effective and efficient. Eliminates the need for high upfront capital equipment investment;

4. Environmentally Safe

MicrobeLift IND only uses naturally occurring, safe and non-pathogenic bacteria in their products, which are not harmful to human and aquatic life. Approved by the USA USDA, reviewed and exempted by the USA EPA.

MICROBE-LIFT/SA (SLUDGE AWAY)

