

Simple Solutions for Complex Wastewater Treatment

MicrobeLift IND Bioremediation Technologies.

Biological treatment using bacteria is not new or novel; it has played the central role in conventional waste treatment throughout the history. What is new however, is our growing understanding of this natural process and how we can enhance and improve the industrial, agricultural and residential waste water treatment performance in breaking down organic waste. **MicrobeLift IND**'s unique bacteriological formula has significantly improved the natural bio-degradation so fundamental to sanitation clean-ups.

Bioremediation consists mainly of **Biostimulation**, where nutrients and/or oxygen are added to soil or water to stimulate native bacteria populations; or **Bioaugmentation**, where external microorganisms are introduced to enhance the degradation process.

The primary use of biological agents has been in enhanced natural remediation and treatment of wastewater in sanitation systems for residential and municipalities, as well as in lakes, rivers and ponds, once-through lagoons used for agricultural and industrial wastewater systems. In many cases Bioremediation can be done in situ, without the need for major modification to existing systems, saving large upfront capital cost for additional waste treatment equipment.

This "classic" approach to bioremediation has relied on the controlled delivery of oxygen and nutrients, such as nitrogen and phosphorous, into the waste water treatment systems. Bioaugmentation, the addition of external microorganisms with sufficient population of suitable types of bacteria, is used to dramatically improved results where biostimulation alone has proven inadequate or ineffective.

We offer a proven and well documented approach to Bioaugmentation for the treatment of a broad spectrum of polluted and waste water applications in consultation with our distributor network within Asia. MicrobeLift IND is a proprietary formulation of a variety of species of live bacteria suspended in an easy to use liquid medium, used for the treatment of industrial, agricultural and residential wastewater cleanups. MicrobeLift IND is exclusively manufactured by Ecological Laboratories of USA, with more than 35 years experience in bacteria culture selection and bio-product formulation. They have built their reputation on quality products, technological support and service through all phases of treatment planning and application.

MicrobeLift IND contains a full spectrum of bacteria, including aerobic species (those that require oxygen) as well as anaerobic species (those that do not require oxygen). The microorganisms in MicrobeLift IND are non-toxic and non-pathogenic, and are safe and non-harmful to humans, animals, plants and all types of aqua culture.

Pictures are worth a thousand words

The following are actual pictures of MicrobeLift IND treatment programs from around the world. Once you see them, you will want to know more about how MicrobeLift IND can help you and your community.



A Swine Production Waste Pond in Korea before Treatment



The same pond after 5 weeks of MicrobeLift IND Treatment



Domestic Sewerage Pond in Uruguay before Treatment



Domestic Sewerage Pond in Uruguay 10 weeks after MicrobeLift Treatment

MicrobeLift IND products are an excellent bioremediation based bacteria that works well in the following applications:-

- Achieving ecological balance of natural bodies of water such as polluted lakes and lagoons; along with reducing flying insect population;
- Economical treatment of agricultural waste using simple oxidation ponds such as used in swine and duck farms where large amounts of waste water are produced daily, eliminating odor, while enhancing fertilizer value of treated effluent;
- Enhancing the effectiveness of municipal and industrial wastewater treatment plants and increasing the operation efficiency and capacity;
- Improves water quality in fresh water shrimp and fish farms, reducing mortality rate and increasing yield and quality, while reducing feed;
- Restaurant and Hotel grease trap treatment- reducing fats-oils-grease for easier removal, as well as controlling bad odors;
- Reduces the need for regular sludge removal in septic tanks, eliminates odor, and in many cases can rejuvenate failed septic systems;
- Reduce pests such as cockroaches, rats, mosquitoes drastically in the septic tanks and drain lines;
- Improve biogas generation in anaerobic digester; and
- Hydrogen Sulfate removal, particularly in petroleum storage tanks, thereby preventing tank 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.

