

Simple Solutions for Complex Wastewater Treatment

Microbe-Lift OC-IND 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.

A major advantage of wastewater treatment with bacteria is that it is a subtractive process which means that there is a net reduction in material content in the wastewater. Conversely, chemical treatment processes are additive in that in most cases, something must be added to the water to achieve the removal of something else. As a result, chemical processes result in a net increase of dissolved matter in the wastewater which must eventually be removed before being safely discharged to the environment. Chemical treatment is almost always significantly more expensive than biological treatment.

In addition to being safe for the environment, MICROBE-LIFT provides the most economical, effective wastewater treatment available. The addition of live bacteria (Bioaugmentation) into the wastewater is very cost efficient because the bacteria are living and multiply very quickly when fed. One organism will reproduce into over 16 million organisms in a 24-hour period. The waste in the water is the bacteria's food, and so long as there is waste in the water, the bacteria in MICROBE-LIFT will continue to multiply and digest the waste. When the waste is gone, the bacteria die off and get recycled safely into the environment.

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.

Microbe-Lift OC-IND is a liquid consortium that is designed specifically for the control of gaseous odorous reaction in contained wastewater system and solid waste odor control such as solid dumpsite and farm manure storage.

For more than forty years, the capabilities of this technology, applied with expertise and support of Ecological Laboratories' technical team, has provided dramatic results over an ever-increasing range of applications.

Pictures are worth a thousand words

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



MICROBE-LIFT OC-IND is recommended for solid waste and animal farm manure odor control. It reduces bad odors, eliminates ammonia and hydrogen sulfide via biological process providing healthier environment for the animals and workers. It gives better manure quality to be used as compost or fertilizer and reduces pathogenic bacteria.

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

- **MICROBE-LIFT[®]/OC-IND** is a natural organic-based technology designed to control gas generating odor reactions in wastewater systems, storage systems, lagoons, landfills and transfer stations. This novel organic technology contains reactive constituents that function as macromolecular sponges, permanently binding odor and stopping odor in its tracks. Works on contact.

- **MICROBE-LIFT[®]/OC-IND** works in a wide range of temperatures. Effective in pH of 5.0 to 9.5.

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

Microbe-Lift OC-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 OC-IND



Directions

To control odor and improve water and air quality, add to the inlet of the receiving system, wastewater facility or lagoon. Use in all odor related areas, pits, surfaces, lagoons and wastewater facilities (all processes). Add at a rate of 2 ppm – 10 ppm. The use rate is determined by the odor level. Applications may include surface spraying, particularly for solid dumpsite odor control. Mix 1 part ML/OC with 100-500 parts water, then spray generously over the surface.