MiCroBial TECHNOLOGIES

Fact Sheet

Septic Tank Treatment

Introduction

Municipal toilets or Public toilets used on regularly on daily basis by peoples. This sewage in septic tanks kept untreated due to lack of treatment facility. These septic tanks filled quickly due regular use. Sewage from these septic tanks emptied and disposed off in water resource causing environment pollution and water bodies. This disposal of untreated sewage will have impact on human health, aquatic ecosystem, aquatic life, spreading disease causing pathogens through water contamination.

Drain field interconnected with septic tank will have problem of blockage due to huge deposition of sludge. All septic tanks will have problems sooner or later. These problems often occur after periods of wet weather, with the septic tank overflowing, septic tank effluent appearing at ground level, seeping into ditches or backing-up the pipes. These are common septic tank problems.

Anaerobic digestion is the process of biological degrading organic matter in a low oxygen environment. It is common today in the treatment of waste water, agriculture and food waste. It is also a naturally occurring phenomenon in landfills Anaerobic digestion leads to the formation of methane gas which can provide a source of renewable energy in the form of biogas that is able to be used for heating or generating electricity.

Signs of a failed septic tank

- Septic tank effluent surfacing on your land
- Strong or bad odors coming from the septic tank or drains
- Pollution of nearby ditches or streams with effluent
- Slow flushing of toilets
- Gurgling in the drains
- Ground movement (dips) near the septic tank or drain field
- Toilet overflowing

MiCroBial Technologies provide biological solution for this septic tank & drain field problems without investing in infrastructure for treatment of sewage. MiCroBial technologies microbes will degrade the sludge & convert into water and CO2.

MiCroBial technologies treat the sewage at source and helps in protecting the environment and ecosystem.

Due to treatment in septic tank itself, MiCroBial technologies prevent pollution of water bodies & rivers, inhibit growth of disease spreading pathogens and avoid risk of human health.

Septic systems are more than just a maze of pipes and drains, they are actual living environments. The microbial system within, which includes bacteria, yeasts, and enzymes, plays an active role in maintaining your septic systems. Their purpose in your septic system is to digest any solids that have settled at the bottom of your septic tank and get the decomposition process started

A typical septic system consists of a septic tank and a drain field, or soil absorption field. Your system is basically an underground wastewater treatment structure that uses a combination of nature and technology to treat wastewater from household plumbing produced by kitchen drains, bathrooms and even laundry.

There are two main types of bacteria that are present in your system

Aerobic Bacteria: This type of bacteria needs oxygen to live. In septic systems, aerobic bacteria will break down the organic waste and then feed off of it. In most cases, aerobic bacteria are very sensitive to environmental changes and are much larger than the anaerobic bacteria found in septic systems.

Anaerobic Bacteria: This type of bacteria needs little to no oxygen to live. Although they are smaller than aerobic bacteria, anaerobic bacteria are better able to withstand changes within their environment. When organic matter enters your septic tank, this bacteria eats, digests, and excretes the matter.

How microbes come into play?

Since solid materials need to remain within the septic tank to prevent clogging the drainage field and causing serious backup, they must be removed with the use of septic pumping trucks. What may be surprising is how infrequently pumping is needed?

This infrequency is all thanks to the vast colonies of microorganisms living within the tank. These work non-stop to break down waste materials, converting much of the solids into liquids that join the stream of effluent and gases that simply dissipate through the soil or leach field. A healthy bacterial environment is vital to maintaining septic system health. Without it, you would be faced with frequent maintenance and nasty, inconvenient issues.

Contact us today:

Within your septic system, maintaining the balance between anaerobic and aerobic bacteria is extremely important. We know that you do not have time to deal with septic problems. One of the ways you can maintain this balance and keep your septic system working like it should is to have your tank pumped regularly. Please contact us @ support@microbialtech.com. We have professionals ready to answer your questions and get your system working properly again

Benefits of MiCroBial Septic Tank Product -

- Reduction in sludge production
- Break down solids, fats and smooth operation
- Reduces odor
- Digest solids and reduce pump outs & cost of disposal.
- Reduces need for chemical additives
- Improves performance of septic system and drainage system
- Reduces hydrogen sulfide, ammonia and nitrates
- Reduce frequency of septic tank filling
- Removes blockages of drainage system, septic tanks, sinks etc
- 100% natural and non-toxic.

Product Shelf Life -

2 years minimum under standard warehouse/office conditions.

For dosing concentration and application method, please contact to technical team or email us at support@microbialtech.com

Please refer to MiCroBial Technologies website for more information of MSDS, www.microbialtech.com

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