



**Designed to digest difficult non-biodegradable compounds and control odors in Landfill Applications**

**Industrial Odor Control**

Bio TEN is a liquid bacterial formula that improves waste degradation and control odors for residential, municipal, and industrial landfill applications. Bio TEN is ideal for treatments with high Biological Oxygen Demand in the range 3,500 to 10,000 ppm.

Bio TEN contains is specially formulated to effectively manage difficult compounds and chemicals present in wastewater. Unlike any other product, Bio TEN contains active bacterial strains which digest difficult and non-biodegradable compounds. These compounds such as detergents, paper, oil, grease, and

hydrocarbons are consumed by Bio TEN.

Bio TEN also provides immediate odor control. This is achieved by the beneficial microbes and lignin. The lignin acts as a macromolecular "sponge" by absorbing and capturing potentially odorous compounds. The lignin contains 7 open receptor sites that bind to odor causing elements like ammonia. The result is a much cleaner, odor-free environment.

This natural formula carries an EPA seal so you can rest assured that it is not only safe but beneficial for the environment.

You can expect exceptional results when using Bio TEN.

**Benefits**

- Provides immediate odor control.
- Digests difficult compounds which are toxic to naturally occurring bacteria or existing sewage bacteria.
- Provides rapid breakdown of difficult detergents, fats, oils, tissue and hydrocarbons.
- Long term stability (1-2 years).
- Eliminates 30, 60, or even 90 day trial periods.
- Eliminates the release of hydrogen sulfide related corrosion.
- Controls mercaptans, amines, and ammonia odors.
- Economical and cost effective with low PPM rate requirements.
- Safe for use around animals, does not require wash-down.
- Non-pollutant, non-corrosive, natural solution.
- Stimulates and enhances microbial populations, beneficial to receiving water systems.
- Safely creates healthier environments for animals and humans.
- Can be used as supplied.
- Certified Salmonella-free.



**Developed in partnership with the U.S. EPA "Design for the Environment"**



# BIO TEN FEATURES

## Biological

- 4 Class A, spore strains
- 12 Class A, vegetative strains
- Protein digesting bacteria
- Starch digesting bacteria
- Cellulose digesting bacteria
- Detergent digesting bacteria
- Fat, grease and oil digesting bacteria

Bacterial Count: > 400 billion cfu's / gallon

## Physical

- Appearance.....dark brown
- Odor .....musty fragrance
- Specific gravity .....1.04
- pH .....Neutral
- Effective pH range.....6.0 – 8.0
- Effective temp. Range.....45 - 125 F
- Standard packaging .....2.5-250 gallon container
- Shelf life.....1 years

Bacteria in OrganicPro Bio TEN perform within a pH range of 5.0 – 9.8 with the optimum near pH 7.0. Temperature affects the activity of the working solution and action increases with rising temperatures up to 145 F. No activity can be expected below 40 F. (5 C.)

AREA	DOSAGE	FREQUENCY
Waste Lagoons	50 PPM	Initial Application
	5-30 PPM	Daily

\* For problem systems, double the recommended feed rate for the first two weeks.

(Call 1-888-314-8181 for technical assistance for specific application)

## A Case for Effectiveness

In December of 2010 Organic Pro Bio TEN was applied as recommended to a landfill in Florida that overlooks the popular retirement community, The Villages. As The Villages is a very prominent and large community the odor control of the landfill is of the utmost importance. The landfill receives a daily inflow of construction debris and various waste that creates a nauseous odor. The odor from degrading sheetrock can be especially offensive.

135 gallons of Bio TEN was applied with 1000 gallons of water using a water cannon. The surface application was made to the part of the landfill causing the worst odors. After 20 days the management of the landfill was amazed at the lack of odor and they are convinced that Bio TEN is by far the most superior product as it is long lasting and does not merely mask the problem.



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EPA "Design for the Environment"

Solving Environmental Problems with Natural Products.

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