



Optimal Organic Lagoon Treatment

Multiple Spore Blend for
Odor Control – Quick Cleaning Action – Organic Removal

BENEFITS

- Designed to provide an environmentally safe solution for many types of organic wastes and odor problems.
- Biodegrades the organic contents of **wastes** completely to CO₂ and H₂O. Its biostrains specifically promote optimum enzymatic activity of protease, lipase, amylase and cellulase, and provides outstanding breakdown of protein, starch, carbohydrates, fats, oils and grease.
- It is designed to provide exceptional **odor control** performance in wastewater treatment plants.

DESCRIPTION

Optimal Organic is a customized bacteria combination designed to biodegrade waste and control waste build-up malodors in wastewater treatment plants, drains and municipal septic systems. The formula consists of naturally occurring bacteria with known capabilities of degrading waste matter and reducing ammonia levels through natural oxidation. Each lot contains a powerful mixture of bacteria.

This designer formula is intended to enhance the benefits of bacteria applications in wastewater systems, and accelerate the breakdown of waste material. The application of this formula allows for faster replication of beneficial bacteria populations which are instrumental in maintaining environmental balance in the ecosystem. The formula consists of naturally-occurring, non-toxic, non-hazardous and biologically-safe enzymes which when used with beneficial bacteria have been proven superior in preventing the spread of pathogenic bacteria populations while degrading organic wastes and metabolizing starches, cellulose and lipids. The addition of **Optimal Organic** gives rise to the exclusion of pathogenic bacteria populations while enhancing the effective clean-up of pollutants, thus resulting in survival ratios well beyond industry norms. **Optimal Organic** outcompetes and outperforms anaerobic bacteria and their malodors.

OTHER ADVANTAGES

- Converts uneaten feed and organic wastes efficiently into safe carbon dioxide and water
- **Optimal Organic** reduces TSS, TDS, COD, BOD and turbidity. **Optimal Organic** decomposes these organic compounds totally into CO₂ and H₂O.
- Eliminates toxic gases.
- Digests also incidental Industrial Hydrocarbon Waste contaminants.
- Reduces solid waste build-up efficiently.
- Eliminates offensive odors associated with the accumulation of organic wastes.
- All-natural and environmentally-safe.
- Suppresses pathogenic bacteria populations.
- Boosts both beneficial indigenous and inoculated bacterial populations.



PRODUCT INFORMATION

Bacteria count:	5.4 x 10 ⁷ CFU/ml
Bacteria type:	Blend of <i>Bacillus</i> spores
<i>Salmonella/Shigella</i>	Negative
Stability	2 years minimum at 2°C to 35°C (35°F-95°F)
Enzyme Production	Lipase, Protease, Amylase and Cellulase
Bacterial Pathways	Aerobic & facultative anaerobic
pH range	5.0 –9.8
Temperature range	3°C to 63°C (38°F-145°F)

CHARACTERISTICS

- High enzyme production of: Lipase, Protease, Amylase and Cellulase.
- Grease biodegradation outperforms other competitive formulations in laboratory and field studies.
- Superior germination and outgrowth results in increased bacterial activity in a variety of organic waste applications.
- Accelerated enzymatic degradation – Synergistic action allows the multiple spore blend to work faster and more effectively.
- General organic waste degrader.
- Enhanced aerobic and anaerobic performance, designed for applications subject to aerobic and anaerobic environments.

DOSAGE

The dosage of Optimal Organic will vary depending on the specific application. Specific recommendations can be provided by your Dis In Fect Products Ltd representative. For wastewater treatment plants: Apply **Optimal Organic** at a concentration of 0.01% to 0.5% to treated waste in the wastewater facility to reduce malodors and biodegrade organic wastes.