



Turning Liabilities Into Leverage!

# MicroClear® BioNite™

## Odor Suppressant and Biological Organic Degradation

### Product Bulletin

*Environmental Leverage has Lab Analysis Service Available*



1-lb. Water Soluble Bio-Pouch

### Controls

Odors  
Hydrogen sulfide,  
Mercaptans, and Volatile  
Organic Acids  
Corrosion

### Degrades

Fats, Oils & Grease  
Starches  
Protein, Animal Fat  
Organics  
Triglycerides  
Surfactants, Soaps

### Environmental Leverage® Inc.

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**MicroClear® BioNite™** is a proprietary formulation of ingredients containing a nitrate-based Electron Acceptor for Control of Odors. This product can be used for controlling odorous and potentially dangerous chemicals such as hydrogen sulfide, mercaptans, and volatile organic acids. **MicroClear® BioNite™** helps eliminate the odor, corrosion and safety problems associated with hydrogen sulfide in sewage as well as prevent the formation of hydrogen sulfide.

**MicroClear® BioNite™** a high potency, bacteria-laden, powdered formulation, for use in degrading many types of waste. **MicroClear® BioNite™** contains a specially formulated, proprietary blend of microorganisms, micro/macronutrients, alternate oxygen source and surface tension suppressants/penetrants. Because of the diversity of the microorganism systems incorporated into this product it is specifically developed for use *in situations where there is a particular high impact from odors as well as fats, oils and grease.*

Our safe, naturally occurring bacteria are present in high numbers to handle difficult organic problems, suppress odors and are very economical to use. This product can be used in the treatment of liquid & solid organic waste.

**MicroClear® BioNite™** contains facultative anaerobes, as well as an alternate oxygen source by providing an abundance of oxygen (electron acceptor) for metabolism to occur. This formulation bio-stimulant is non-hazardous and completely biodegradable. Safe, cost effective, easy-to-handle method of odor control with no hazardous byproducts.

### Enzymatic Activity

Cellulase (CAU).....	Units/Gram: 150 Min.
Protease (Casein Digesting).....	Units/Gram: 35,000 Min.
Amylase (Modified Wohlgemuth).....	Units/Gram: 55,000-80,000
Lipase (USP).....	Units/Gram: 400

### Application Instructions for Sewer & Lift Stations

<u>Flow Rate</u>	<u>Initial Dosage</u>	<u>Maintenance**</u>
Up to 25,000gpd	1-3 lb. per week	1½ lb. per week
Up to 50,000gpd	2lb. 2x week	2 lb. per week
Up to 100,000gpd	2lb. every other day	2 lb. 2x week
Up to 250,000gpd	2lb. per day	2 lb. 3x week



\*\*\*The required dose ranges from 4 to 15 lbs. of calcium nitrate per pound of sulfide present

### Product Advantages

Eliminates malodors at their source  
Contains Alternate Oxygen Source  
Reduces Corrosion  
Greatly reduces labor time  
Enhances BOD/COD removal  
Reduces hydrogen sulfide  
Reduces sludge buildup  
Cost effective/Easy to use  
Changes biomass dynamics  
No special equipment needed  
Increases system efficiency  
Breaks down fat & grease buildup  
Contains facultative aerobes  
Degrades a wide range of complex organic compounds

### Applications of Use

LIFT STATIONS  
WET WELLS  
SUMP PITS  
SLUDGE TANKS  
SEWER MAINS  
GREASE TRAPS  
LAGOONS  
TRICKLING FILTERS  
DRAIN LINES  
PONDS

### Packaging of Product

**MicroClear® BioNite™** comes in 1-lb. water soluble Bio-pouches. Packaged in 25-lb. Plastic Pails. Bulk packaging upon request.





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#### Typical Properties of Product

Appearance.....light tan  
 Fragrance.....mild-earthly  
 Form.....powder  
 pH.....6.8-8.5  
 Shelf-Life.....1 year/u.o.c.  
 Flash Point.....none



1-lb. Water Soluble Bio-Pouch

#### Performance Properties

Effective pH range.....5.2 - 9.5  
 Effective Temperature Range.....35 - 130°F  
 Bacterial Enzyme Production.....Protease,  
 Lipase, Amylase, Urease, Cellulase

#### Storage & Handling

Storage.....Store in a cool, dry place. Do Not Freeze  
 Container.....Keep lid closed on Plastic Pail. Do not store water  
 soluble pouches out of plastic container.

Handling.....Wash hands thoroughly with warm, soapy water

#### Bacterial Count

MicroClear® BioNite™ .....>1x10<sup>9</sup> (Billion per gram)

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