



Turning Liabilities Into Leverage!

MicroBlock™ For Bioaugmentation

Product Bulletin

Environmental Leverage has Lab Analysis Service Available



Degrades
Fats, Oils & Grease
Starches
Protein
Malodors
Animal Fat
Triglycerides
Foaming
Surfactants
Soaps

MicroBlock™ is a solid, bacterial laden, slow release block for use in degrading organics. The safe, naturally occurring bacteria are present in high numbers to handle difficult organic problems. The unique block will gradually dissolve over a 30-90 day period which allows for continuous treatment and degradation of waste. The naturally occurring bacteria contained in the block will reduce odor, sludge, fats, oils and grease buildup.

Biological products offer a more efficient alternative to chemicals. They actually degrade the grease and organics at the source. The **MicroBlock™** is suspended below the water level and provides slow, continuous release for the bacteria.

Application Sewer, Lift Stations & Wet Wells

DOSAGE RATE GUIDELINES

2 - lb. MicroBlock™	35-60 Days	flows less than 50,000 gpd
5 - lb. MicroBlock™	45-75 Days	flows 50,000-100,000 gpd
10 - lb. MicroBlock™	60-90 Days	flows >100,000 gpd

Product Advantages

- * Allows for 24 hour continuous treatment of waste, not just periodic dosage
- * Greatly reduces labor time needed for dosage maintenance
- * Reduces hydrogen sulfide & sludge buildup
 - * Easy to use
 - * Significantly reduces malodors
- * Cost effective & reduces the need for pump-outs and dredging
 - * Breaks down fat & grease buildup
- * Eliminates need for metering pump - no initial or maintenance cost
- * Eliminates need for personnel to dose other types of treatments daily or weekly
 - * Automates septic and grease trap maintenance program



Applications of Use

LIFT STATIONS
WET WELLS
SUMP PITS
DIGESTERS
SLUDGE TANKS
SEWER MAINS
LATERALS
GREASE TRAPS
AERATION SBR'S
LAGOON'S
TRICKLING FILTERS
DRAIN LINES

Packaging of Product

2 lb. / 4 per Case
5 lb. / 4 per Case
10 lb. / 4 per Case

Environmental Leverage® Inc.

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MicroBlock™ For Bioaugmentation

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MicroBlock™ gives round the clock waste degradation treatment with a simple, easy to use system. Simply suspend the **MicroBlock™** into the treatment area, hanging the MicroBlock™ ½ the way into the lift station liquid, wet well, grease trap or pre-treatment site. The block will dissolve over a 30-90 day period, depending on size and flow rates in a typical lift stations or wet wells, providing optimal efficiency and treatment.



2 lb. MicroBlock
*Start taking the
Grease & Scum
out of your system
Today!*



Typical Properties of Product

Appearance.....medium green
Fragrance.....mild-earthy
Form.....block
pH.....7.8-8.5
Shelf-Life.....2 years/u.o.c.
Flash Point.....none

Performance Properties

Effective pH range.....5.2 - 9.5
Effective Temperature Ran.....40 - 120°F

Storage & Handling

Storage.....Store in a cool, dry place. Do Not Freeze
Container.....Keep box closed & blocks in plastic bag. Seal end of bag to keep blocks away from air flow.

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

Bacterial Count

MicroBlock™.....4 Billion CFU's per gram
Block Contents include..... 4 strains of Bacillus & Nutrient Package

****Ask about the impact of supplementing N and P.***



MICROBLOCK™
10 POUND SIZE

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Turning Liabilities Into Leverage!

MicroClear® 207

High Impact Grease Digester & FOG removal

Product Bulletin

Environmental Leverage has Lab Analysis Service Available

MicroClear® 207 is a high potency, bacteria-laden, powdered formulation, for use in degrading many types of waste. **MicroClear® 207** contains a specially formulated, proprietary blend of microorganisms, micro/macronutrients, 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 (FOG) fats, oils and grease.* The safe, naturally occurring bacteria are present in high numbers to handle difficult organic problems and are very economical to use for reducing BOD.



1-lb. Water Soluble Bio-Pouch

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

Flow Rate	Initial Dosage	Maintenance**
Up to 25,000gpd	1lb. per week	½ lb. per week
Up to 50,000gpd	1lb. 2x week	1 lb. per week
Up to 100,000gpd	1lb. every other day	1 lb. 2x week
Up to 250,000gpd	1lb. per day	1 lb. 3x week



Degrades

- FOG / BOD
- Fats, Oils & Grease
- Starches
- Protein
- Malodors
- Animal Fat
- Triglycerides
- Foaming
- Organics
- Surfactants
- Soaps

Product Advantages

- 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
- Eliminates malodors at their source
- Contains facultative anaerobes
- Contains no chemicals
- Degrades a wide range of complex organic compounds

Applications of Use

- LIFT STATIONS
- WET WELLS
- SUMP PITS
- OXIDATION TANKS
- RBC'S
- CLARIFIERS
- DIGESTERS
- SLUDGE TANKS
- SEWER MAINS
- LATERALS
- GREASE TRAPS
- AERATION BASINS and SBR'S
- LAGOON'S
- TRICKLING FILTERS
- IMHOFF TANKS
- DRAIN LINES

Packaging of Product

MicroClear® 207 comes in 1-lb. water soluble Bio-pouches. Packaged in 25-lb. Plastic Pails. Bulk packaging upon request.

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MicroClear® 207

High Impact Grease Digester & FOG removal

Product Bulletin

Environmental Leverage has Lab Analysis Service Available

Typical Properties of Product

Appearance.....light tan
 Fragrance.....mild-earthly
 Form.....powder
 pH.....6.8-8.5
 Shelf-Life.....2 years/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

Degrades

FOG / BOD

Fats, Oils & Grease

Starches

Protein

Malodors

Animal Fat

Triglycerides

Foaming

Organics

Surfactants

Soaps

Bacterial Count

MicroClear® 207.....>1x10⁹ (Billion per gram)



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MicroClear® BioNite™

Odor Suppressant and Biological Organic Degradation

Product Bulletin

Environmental Leverage has Lab Analysis Service Available

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.



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

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Odor Suppressant and Biological Organic Degradation

Product Bulletin

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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™>1x10⁹ (Billion per gram)

Controls

Odors

Hydrogen sulfide,
Mercaptans, and Volatile

Organic Acids

Corrosion

Degrades

Fats, Oils & Grease

Starches

Protein, Animal Fat

Organics

Triglycerides

Surfactants, Soaps



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