MicroBlock™
FOG / Odor Control & BOD / TSS Reduction

Product Bulletin Problems with High Grease, Fats & Oils

Environmental Leverage has Lab Analysis Service Available

MicroBlock™ is a solid, bacterial laden, slow release bio block for use in degrading organics. The naturally occurring bacteria contained in the block will reduce odor, sludge, fats, oils and grease buildup.

This bioaugmentation product is 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. 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 for FOG Control**

**DOSAGE RATE GUIDELINES**

<table>
<thead>
<tr>
<th>Dosage</th>
<th>Rate</th>
<th>Days</th>
<th>Flows</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 lb.</td>
<td>MicroBlock™</td>
<td>35-60</td>
<td>flows less than 50,000 gpd</td>
</tr>
<tr>
<td>5 lb.</td>
<td>MicroBlock™</td>
<td>45-75</td>
<td>flows 50,000 -100,000 gpd</td>
</tr>
<tr>
<td>10 lb.</td>
<td>MicroBlock™</td>
<td>60-90</td>
<td>flows &gt;100,000 gpd</td>
</tr>
</tbody>
</table>

**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 (FOG)
* 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
- Pre-TREATMENT
- LATERALS
- GREASE TRAPS
- AERATION SBR'S
- LAGOON'S
- TRICKLING FILTERS
- DRAIN LINES

**Packaging of Product**

<table>
<thead>
<tr>
<th>Dosage</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 lb.</td>
<td>4 per Case</td>
</tr>
<tr>
<td>5 lb.</td>
<td>4 per Case</td>
</tr>
<tr>
<td>10 lb.</td>
<td>4 per Case</td>
</tr>
</tbody>
</table>

**Degrades**

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

**Environmental Leverage® Inc.**

1454 Louis Bork Drive
Batavia, IL 60510
admin@environmentalLeverage.com
630-906-9791 fax 630-906-9792
www.EnvironmentalLeverage.com
MicroBlock™ bio solid 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.

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.
MicroClear® 207

High Grease, FOG Control and BOD Reduction

Product Bulletin

MicroClear® 207 can be used in aeration basins or existing system to supplement your existing biomass or into lift stations to control High Grease situation. 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 fats, oils and grease (FOG). The safe, naturally occurring bacteria are present in high numbers to handle difficult organic problems and are very economical to use.

**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**

<table>
<thead>
<tr>
<th>Flow Rate</th>
<th>Initial Dosage</th>
<th>Maintenance**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 25,000gpd</td>
<td>1lb. per week</td>
<td>½ lb. per week</td>
</tr>
<tr>
<td>Up to 50,000gpd</td>
<td>1lb. 2x week</td>
<td>1 lb. per week</td>
</tr>
<tr>
<td>Up to 100,000gpd</td>
<td>1lb. every other day</td>
<td>1 lb. 2x week</td>
</tr>
<tr>
<td>Up to 250,000gpd</td>
<td>1lb. per day</td>
<td>1 lb. 3x week</td>
</tr>
</tbody>
</table>

**Product Advantages**

- Can be used in WW Treatment Systems & Liftstations to reduce BOD/TSS
- Greatly reduces labor time
- Enhances BOD/COD removal
- Reduces H2S Production
- Reduces sludge buildup
- Cost effective/Easy to use
- Changes biomass dynamics
- No special equipment needed
- Increases system efficiency
- Breaks down fat & grease (FOG) 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
- AERATION BASINS
- OXIDATION TANKS & DITCHES
- RBC’S & SBR’S
- CLARIFIERS
- DIGESTERS
- SLUDGE TANKS
- SEWER MAINS
- LATERALS
- GREASE TRAPS
- AERATION SBR’S
- LAGOON’S
- TRICKLING FILTERS
- IMHOFF TANKS
- DRAIN LINES

**Packaging of Product**


Environmental Leverage has Lab Analysis Service Available

Degrades
- Fats, Oils & Grease (FOG)
- Organics
- Starches
- Protein
- Malodors
- Animal Fat
- Triglycerides
- Foaming
- Surfactants
- Soaps

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Typical Properties of Product
Appearance..........................light tan
Fragrance............................mild-earthy
Form.................................powder
pH.....................................6.8-8.5
Shelf-Life...........................2 years/u.o.c.
Flash Point..........................none

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