



ET'S GREASE - B - GON

Specifications

Form: Free-flowing granular powder
 Color: Brown
 Nutrient Content: Biological nutrients & stimulants
 Plate Count: 5 billion per gram

Packaging: 4, 8 & 16 oz. water soluble packages protected by a resealable overwrap. 25 lbs. per plastic pail.

Storage: DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts, avoid excessive skin contact. SEE M.S.D.S.

Application Instructions: Open the resealable overwrap and add the water soluble pouches directly to the system.

Sewers

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

Treatment Plants

Flow Rate	Initial Dosage *	Maintenance**
Up to 250,000 gpd	15 lbs.	¼ lb./day
Up to 500,000 gpd	25 lbs.	½ lb./day
Up to 1 mgd	50 lbs.	1 lb./day
Up to 5 mgd	50 lbs. per mgd	1 lb./day per mgd
Up to 12 mgd	50 lbs. per mgd	¾ lb./day per mgd
Up to 100 mgd	30 lbs. per mgd	½ lb./day per mgd

* Spread this initial dosage out over the course of 10 days.

** Add as regularly as possible. If it is required to miss one day, add that day's product with the next dosage.

Dosage rate will vary with flow rates, retention times and system variations. The rates above are for a typical, well maintained system.

Activated Sludge Systems: Activated Sludge Systems include various process flow sheets for example: Extended Aeration, Contact Stabilization, Step Aeration, Oxygen Activated Sludge, SBR. The application rate for all products is based on the average daily flow rate to the aeration basin, excluding the return sludge stream.

Trickling Filter and Rotating Biological Contactors: The application rate for all products is based on the average daily flow rate to the filter or contactor, excluding any recirculating process stream.

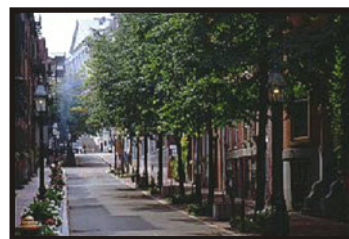
Lagoon Systems: For aerated lagoon systems, the application rate is based on the average flow to the lagoon.



Case History 836

This 1.5 MGD waste treatment plant pumped F.O.G. from the scum pits directly into the digester. Over the years build up accumulated in the digester, decreasing digestion efficiency and methane production while increasing the amount to be wasted. They began feeding ET's Grease-B-Gon F.O.G. Free microorganisms directly into the scum pits to liquefy and degrade the F.O.G. being pumped into the digester. In this state, further digestion of this material in the digester occurs easier. The ET's Grease-B-Gon also helped in reducing total volatile solids in the digester. The use of the ET's Grease-B-Gon in water soluble bags make application easy, and dosage rates accurate.

Upon annual internal inspection, the digester looks cleaner with less build up. Use of the product has been ongoing for several years.



Case History 961

City of Boston, Massachusetts has used product since 1993 for routine, cost effective sewer maintenance.

Fats, Oils and Grease

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1907 SW 47th Street
 Cape Coral, FL 33914
 (239) 997-6300



ET'S GREASE - B - GON

Product Description: ET's Grease-B-Gon contains a specially formulated range of adapted high-performance microorganisms developed for use in the biological wastewater treatment of greases, fats and oils. As well as microorganisms, ET's Grease-B-Gon contains surface tension depressants and penetrants which loosen and liquefy heavy grease deposits, thereby assisting in their biodegradation.

When used as directed ET's Grease-B-Gon is safe. It is harmless to people, clothing and the environment and is completely biodegradable. When applied -to effluent treatment facilities, ET's Grease-B-Gon assists in:

- Helping to establish a biomass capable of handling these difficult wastes.
- Reducing the accumulation of unsightly deposits of grease and fat. Increasing the efficiency of overloaded treatment systems.
- Preventing the blocking, ponding and possible collapse of filter-bed media.
- Significantly reducing odor problems.
- Enhancing BOD and COD removal while improving sludge settlement.

EFFECT: The range of microorganisms contained in this product consists of aerobic and facultative anaerobic bacteria. Selected from their natural environment, these bacteria have been adapted to give optimum performance in degrading greases, fats and oils by providing the normal mechanism for the selection of the biomass population with the opportunity to change its make-up in a matter not usually available.

APPLICATIONS: Typical uses of ET's Grease-B-Gon include:

- Start-up of aerobic biological treatment systems handling wastewaters from milk, processing, cheese-making and food processing.
- Removal of grease deposits and prevention of scum formation in holding tanks, sewers, drains and aeration basins.
- Acceleration of the biological degradation of wastewaters containing high levels of fats, greases and oils.
- Reduction in the unpleasant odors often associated with treatment plants handling fatty wastes.

In addition to the bacterial element of ET's Grease-B-Gon, a number of free enzymes are produced by and are present within the product. The presence of a complex of amylases and lipases, in conjunction with the bacteria, provides the capacity to degrade extra cellular polymers, (which cause foaming), and suppress the growth of the filamentous organisms by affecting the structure of the filaments.

Benefits of ET's Grease-B-Gon:

- Improve Treatment Plant Performance
- Control Filamentous Growth
- Reduces Foam
- Lower Sludge Production
- Controls Grease Build-up



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Case History 951

1500 cubic feet of grease had accumulated in the scum pit and 35 cubic feet was being added each week. Disposal involved manual removal for transporting to a landfill.

A month after adding the products, operators were beginning to notice subtle improvements in floc formation and in the biological community as a whole. The 1500 cubic feet of grease accumulation was beginning to degrade and two months later it was gone.

Bacterial Formulation
Plus
Bio-Enhancer
Plus
Micronutrient

Other benefits include:

- Regular application lowers maintenance costs for grease blockages in treatment plant.
- Controls sulfide odors.
- Treatment is effective for controlling foam.
- Prevents grease buildup in digesters.
- Improves performance in the treatment plant.

ET's Grease-B-Gon is approved for use under the classification of drain cleaners by the Canadian Food Inspection Agency.