



Recognized for
Safer Chemistry

www.epa.gov/dfe

BioSmart®

What is BioSmart®?

The most advanced microbial drain, septic, and grease trap treatment available. It is comprised of naturally occurring strains of live, vegetative bacterial cultures with an exceptional appetite for organic matter.

Why is BioSmart superior to other microbial drain line and collection system inoculants on the market?

1) **EPA LETTER OF RECOGNITION –**

BioSmart has met the EPA's DfE challenge for biological drain line and septic system products by demonstrating a more positive human health and environmental profile.



- 2) **FAST ACTING** - BioSmart begins working immediately when introduced in a drain line or collection system. These friendly bacterial cultures do not require a wake up period as with other microbial products.
- 3) **EASE** - BioSmart is easy to use and a simple pour and go. No pre-mixing, the convenient drain back bottle cap measurer is used to add the correct amount of treatment to the drain line or collection system.
- 4) **VALUE** - BioSmart requires one half capful per treatment. One half capful has more activity than 5 capfuls of other bio-products.
- 5) **ELIMINATES EMERGENCY CALL BACKS** - BioSmart continues to work long after the service call. The Hungry Bacteria® continue to feed on the organic residue left in the drain line, grease trap, and septic tank long after the technician leaves.

BioSmart is a patented microbial drain and septic treatment.

The Meaning of the Design for Environment Logo

With 85% of businesses creating sustainability initiatives, and consumers showing increased interest in environmental matters, environmental conscious products are increasingly in demand. In fact, surveys show that a product's environmental impact is an important factor considered by consumers in making their buying decisions.

The EPA's Design for the Environment program parallels worldwide interest in environmental safety and sustainability. The purpose of this program is to help identify and develop environmentally safer products.

Once a product passes the specifications of that program, the EPA allows the display of the EPA Design for the Environment logo on the product. According to the EPA, this logo "enables consumers to quickly identify and choose products that can help protect the environment and are safer for families."

In order to pass EPA DfE requirements, a product must undergo a rigorous review by the EPA DfE scientific review team. This team carefully screens each ingredient for any potential human health and environmental effects. The team reviews not only the ingredient, but its chemical structure, to see how it could impact the environment and people.

Only products that are made of the safest possible ingredients are eligible for approval. According to the EPA, "the DfE allows use of the logo only when a product is best in its class."

BioSmart has passed the EPA DfE's rigorous scrutiny and, therefore, proudly displays the EPA DfE logo in recognition of its positive effect on human health and the environment.



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Most-Commonly-Asked Questions

1. *What is Liquid BioSmart?*

Liquid BioSmarts' formulation is patented and therefore unique in the industry. It contains no added enzymes, relying on the powerful action of its performance-ready, live vegetative microbes to degrade and digest fats, oil, grease, and other stubborn organic wastes to harmless by-products and water. The microbes in Liquid BioSmart are formulated to withstand and flourish even in the harsh conditions of commercial kitchens, making it the ideal bioproduct for grease trap maintenance. Liquid BioSmart is performance ready—NO MIXING and NO WAITING required—so residential and commercial customers routinely use more product with greater results. Liquid BioSmart is the premier drain line product in the country.

2. *What is Powdered BioSmart?*

Powdered BioSmart is a combination of spore-forming bacteria and enzymes. These enzymes are very powerful and when coupled with the beneficial bacteria in the product, the result is an effective drain cleaning product. When conditions in drain lines are appropriate, the enzymes work on the organic matter in the pipe by changing the buildup from a compacted solid to a loose solid, allowing the buildup to fall to the bottom of the pipe and move through the system as the bacteria digest the waste.

Powdered BioSmart is recommended for those who do not prefer the use of liquid, and for particular instances such as sewage spills on the ground.

3. *Do the live bacteria in BioSmart die off in the bottle? How do the bacteria survive without consuming each other?*

Aaahhh...the beauty of a patent! Liquid stabilization of BioSmart's microorganisms is just one of the patents that protect the formulation. But to understand what this stabilization process does, compare it to the hibernation of a grizzly bear. The bear's metabolic functioning slows down dramatically to the point that no food is needed. When the resting state is ended, that bear is

ready for an all-you-can-eat buffet. In the case of Liquid BioSmart, when you dose product into a wastewater system, the live microbes are immediately ready to eat, digest, and consume grease, oil, fat, and stubborn organic matter found in every drain pipe, septic system, and grease trap.

4. Does Liquid BioSmart freeze? Does freezing affect the effectiveness of BioSmart's microorganisms?

Like PVC glues and other liquid products carried on service trucks, Liquid BioSmart will freeze but freezing in no way affects the viability and effectiveness of the microbial activity. In fact, the microbes in Liquid BioSmart are actually freeze-dried before being formulated into the liquid state.

5. Does Liquid BioSmart degrade hair?

The microbes in Liquid BioSmart will eventually degrade hair, but the process is slow because of the strength of the protein contained in hair. How Liquid BioSmart handles hair clogs is very simple: BioSmart's microbes eat and remove the drain line buildup that hair clings to, and once the buildup is removed, hair moves freely through the line.

6. Does Liquid BioSmart have a scent?

There are no perfumes in Liquid BioSmart; it has a natural, earthy scent.

7. How long is Liquid BioSmart's shelf life?

Although the microbes in Liquid BioSmart stay viable for years, peak product effectiveness is 18 months. Naturally, shelf life is insignificant because BioSmart users don't hold on to inventory that long. End users find Liquid BioSmart so easy to use that they regularly consume more product on a routine basis—keeping their drain line systems free of organic buildup.

8. How many applications are in the residential 64oz bottle?

There are 32, two-ounce applications in each 64oz. residential-size bottle of Liquid BioSmart.

9. *What is the benefit of biotreating a septic system with Liquid BioSmart over powdered BioSmart?*

There is no need to neutralize the pH in septic systems with Liquid BioSmart. The microbes in BioSmart are alive and performance ready to eat and digest greasy organic buildup. Liquid BioSmart contains no added enzymes so buildup is not changed into a loose solid that could clog drain fields.

10. *How does Liquid BioSmart perform in commercial kitchen drain lines and grease traps?*

Liquid BioSmart is specially formulated to adapt to the harsh conditions of commercial kitchen drain lines and grease traps. There is no down time with Liquid BioSmart; the performance-ready activity of BioSmart means every minute the product is in the system, grease, oil, and fats, as well as other stubborn organic matter, are being eaten, digested, and consumed. The exclusive Liquid BioSmart auto-dispensing system is ideal for all commercial kitchen environments, dosing BioSmart at set intervals into the main line directly leading into the grease trap—providing the customer with 24-hours a day/7 day a week. Typically a trap treated with Liquid BioSmart can see a normal reduction of necessary pumping by as much as 50%.

11. *What temperature range can the microbes in Liquid BioSmart withstand?*

Liquid BioSmart's microbes can survive in continuous temperatures as high as 105 degrees, the normal operational range found in commercial kitchens. When wastewater enters the system that exceeds this temperature, many of the organisms will survive because Liquid BioSmart forms a biofilm around the entire surface of the pipe. High water temperatures and chemicals flowing through the drain line do not fill the entire pipe but rather flow along the middle and bottom of the line. In the commercial kitchen setting the Liquid BioSmart auto-dispensing system provides for the normal turnover rate of microbes in these types of settings by continuously replenishing a fresh supply.

12. What pH range do the microbes in Liquid BioSmart require, and is it necessary to add a pH neutralizer to a grease trap or septic system before dosing with Liquid BioSmart?

When using Liquid BioSmart it is unnecessary to pretreat a septic or grease trap system with pH neutralizer. Liquid BioSmart is formulated to perform in very harsh environments, including lower or higher pH ranges. Liquid BioSmart's microbes will degrade fats, oils, grease, and organic waste in a pH range of 5-9.

13. Is Liquid BioSmart in compliance with national and local ordinances?

Yes. A big concern that municipalities have is liquefying or emulsifying fats, oils, and greases that simply push the problem down the line to the city. Liquid BioSmart contains NO ADDED ENZYMES OR SOAPS. Enzymes change the physical state of a compacted solid buildup to a loose solid allowing grease and organic matter to flow directly to the wastewater treatment plant where it has to be biotreated before it can be reintroduced into the environment. Soaps emulsify fats, oils, and greases. Emulsified grease and oils require bioremediation at the municipality, and that's very expensive. That expense is often transferred back to the commercial customer in the form of surcharges.

Liquid BioSmart eats, digests, and consumes grease, oil, fats, and organic matter by degrading it into harmless carbon dioxide and water. All municipalities across the country will allow Liquid BioSmart to be introduced into commercial wastewater systems. Offering Liquid BioSmart to your commercial customers will allow them to avoid potentially expensive wastewater surcharges.

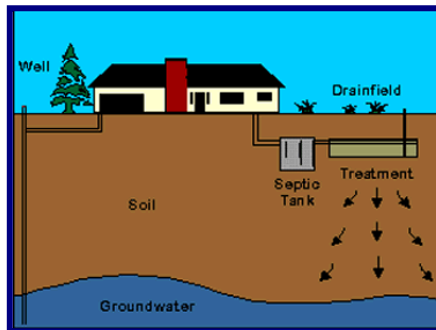
Septic System Maintenance

Septic systems require live bacteria to consume, digest, and degrade grease, oil, and other organic matter so that proper functioning can be maintained. When a septic system is properly maintained, the connected drain field can also function according to design.

Subjected to bleaches, detergents, and other chemicals, naturally occurring bacteria struggle to survive and keep up with the influx of waste in residential and commercial septic systems.

Liquid BioSmart is formulated to work in the harsh conditions of septic systems. BioSmart requires no pH neutralizing and is performance ready. BioSmart contains no added enzymes or other emulsifying agents which only liquefy solid waste. BioSmart's bacteria eat and digest the solid waste without the unbalanced action of enzymes or surfactants.

The most effective way to maintain a septic system is to inoculate the tank with BioSmart immediately after pumping.



After your septic system has been pumped: Your technician will add BioSmart directly into the clean tank.

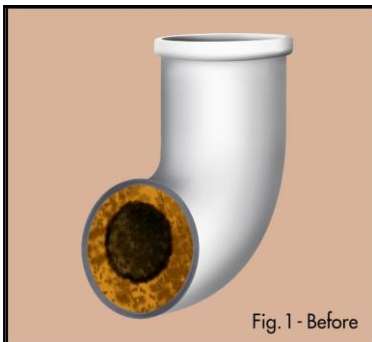
To properly maintain your septic system: Between pumping, follow the instructions on the label of the 64 oz. BioSmart that your technician has left with you.

Typical Household Pipe

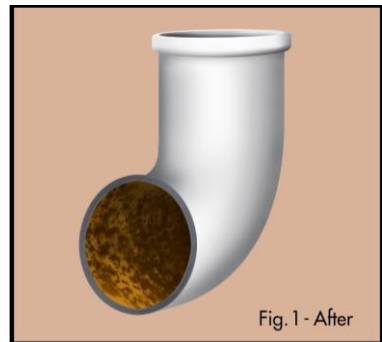
Use as Directed



Before
BioSmart



After
BioSmart



**FASTER
STRONGER
BETTER!**



BioSmart™

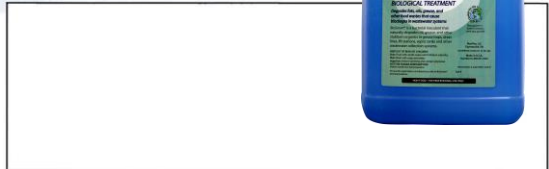
DRAIN LINE AND GREASE TRAP MAINTENANCE SYSTEM KEEPS DRAIN LINES FLOWING FREELY!

- *Reduces costly business interruptions*
- *Reduces drain line backups*
- *Minimizes pumping costs and inconveniences*
- *Improves wastewater compliance*
- *Environmentally safe, natural bacteria*
- *No handling by restaurant personnel required*
- *Auto-dispensing: Simple, Safe, Dependable*
- *Scheduled service*



BioSmart™ has met the EPA's DfE challenge for biological drain line and septic system products by demonstrating a more positive human health and environmental profile.

DISTRIBUTED BY:



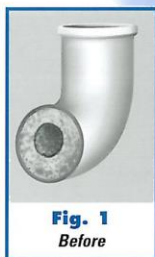
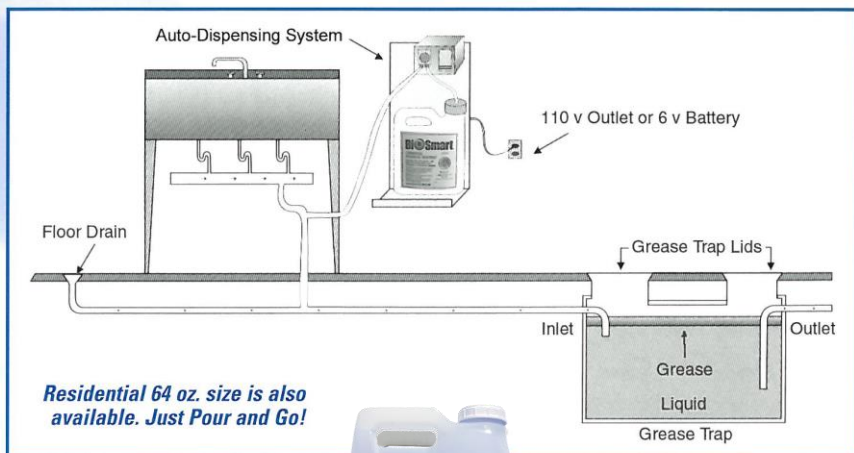


Fig. 1
Before



Fig. 2
After

BioSmart™
Saves You Money!
Simple, Safe,
& Dependable!



The **BioSmart™** Auto-dispensing system can eliminate costly grease-related problems which cause slow and stopped drains. The system automatically meters the correct amount of **BioSmart™**, keeping main drain lines flowing and improving the efficiency of the grease trap.

BioSmart™ is the most effective microbial drain treatment available, and **BioSmart™** is completely natural: No soaps, no harsh chemicals, no premixing, no waiting. Just start the system and go. Simple, safe, and dependable.

Live vegetative bacteria are dispensed via the programmed auto-dispensing system. Once in the drain line and grease trap, these friendly organisms immediately begin consuming oil, grease, and other organic matter.

Emulsification of grease and oil is in violation of many local regulations. Unlike other products, **BioSmart™** will not emulsify grease or oil. **BioSmart™** literally consumes oil and grease and organic matter, converting it to carbon dioxide and water. **BioSmart™** improves wastewater quality by reducing COD, BOD, and TSS contaminate levels.

Simply Superior Bioproducts distributed by:



BioSmart™

Distributed by BuyMax, LLC
Fayetteville, TN

TM US PATENTS #4,910,143 #4,800,158 #4,870,012 #5,980,747 #4,593,003 Made in U.S.A.

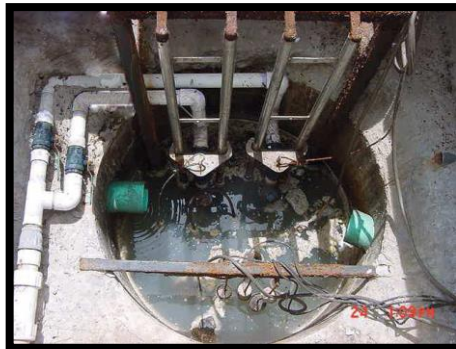


Lift Station BEFORE

BioSmart®

Day 1 of Treatment

This is a lift station outside of Bradenton, FL. It is located outside of a food court of a major shopping mall. On day 1 BioSmart was added via an AIS System and the perimeter was sprayed with BioSmart.



Lift Station AFTER

BioSmart®

Day 30 of Treatment

ANY QUESTIONS?



ONE/≡Biotechnology

P. O. Box 758

Oneco, FL 34264

800-951-4246

941-355-8451

941-351-0026 Fax