

## BIOSTIM APPLICATION GUIDELINES

### BioStim Products

BioStim products are 100% microbial formulations designed to digest and eliminate fats, oils, grease (FOG) buildup in drains, grease traps, lift stations, sewer lines and septic systems.

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#### Safe Handling Procedures

- Do not inhale or consume; Keep out of reach of children.
  - Wear latex gloves when handling contents; avoid contact with skin and open wounds.
  - Properly dispose of packaging and wash hands with soap and water after use.
  - In case of eye contact, flush with water. In case of skin contact, rinse with water.
  - In case of ingestion, do not induce vomiting unless instructed by a physician. Contact a physician if irritation persists.
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### PILLS

**BioPill** - for use in sink drains or indoor grease interceptors when an injection system is not used.

**Drain Relief Pill** - for use in sink drains or indoor grease interceptors along with MicroDrip System.

1. Apply BioPill or Drain Relief Pill:
  - *Without a garbage disposal:* Mash Pill through the permanent sink drain strainer (not the removable strainer). If the strainer is missing, crumble the pill prior to putting it down the sink drain. Run cold water down the drain until all Pill remnants are no longer visible.
  - *With a garbage disposal:* Place Pill in garbage disposal. Turn on garbage disposal and cold water. Allow them both to run for approximately 5 seconds.
  - *In grease trap/interceptor:* Remove lid of grease interceptor and place Pill on screen inside interceptor. Position Pill as far away from the outlet as possible.
2. Replace BioPill or Drain Relief Pill monthly.

**Super Aug Pill** - for use in outdoor grease interceptors; use 1 Pill for every 750 gallons of interceptor.

1. First measure grease cap:
    - a. Remove manhole cover and push a garden hoe that has been etched in one-foot increments (or other measuring device with a 90 degree flange) through the hard grease cap until water emerges.
    - b. Remove hoe & measure depth of grease buildup. Document measurement as the depth of the grease cap. Note: interceptor should be pumped when grease cap thickness exceeds 20% of the total depth of the trap.
    - c. Agitate the outdoor grease interceptor with the hoe to aerate.
  2. Mash the Super Aug Pill: divide pill and add even amounts to each chamber (manhole) of the outdoor grease interceptor.
  3. Agitate with hoe again to aerate, then replace manhole covers.
  4. Repeat monthly.
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## DRY FORMULAS

**Drain Line Dry Formula** - *For floor drains, soda fountain drains, beer tap drains, ice cream dipper well drains, ice machine drains, bar sink drains, soda holster drains, trough drains, and other drains. Not intended for use on food preparation or service counters.*

1. Mix one packet per 2 gallons of water using an approved sprayer. Follow manufacturer's instructions for sprayer. Do not use pesticides in the same sprayer.
2. Calibrate sprayer to spray 8 oz. of solution in each floor drain, and to spray 2 oz. of solution in each soda drain. Maintain full pressure during use.
  - For small drains: Fan spray.
  - For large drains: Insert & rotate spray nozzle in several of the grate openings.
3. Repeat monthly.

**Septic Saver Dry Formula** - *for septic systems.*

1. Pour packet contents into toilet.
2. Flush toilet to deliver product to septic system.
3. Repeat quarterly.

**Super Aug Dry Formula** - *for use in outdoor grease interceptors; use one packet for every 750 gallons of grease trap/interceptor.*

1. Mix one packet per 5 gallons of water.
2. First measure grease cap:
  - a. Remove manhole cover and push a garden hoe (or other measuring device with a 90° flange etched with 1-ft increments) through the hard grease cap until water emerges.
  - b. Remove hoe & measure depth of grease cap; document measurement. Note: interceptor should be pumped when grease cap thickness exceeds 20% of total depth of trap.
  - c. Agitate the outdoor grease interceptor with hoe to aerate.
3. Pour product solution into each chamber (manhole) of the outdoor grease interceptor, dividing total solution proportionally based on number of manholes.
4. Agitate/stir vigorously with hoe again to aerate, then replace manhole covers.
5. Repeat monthly.

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## FOAMING FORMULAS

**BioStim Conquer - Foaming Microbial Cleaner**

*Mixing Instructions*

Mix a ratio of 4 oz product to 1 gallon tap water in a hand held foam sprayer.

- *Add additional water for a looser, wetter foam.*
- *Use within 24 hours of mixing the product with water.*
- *Do not use pesticides in the same sprayer.*

*Application Instructions*

1. Mix with 1 gallon of tap water in a 1 gallon hand-held foam sprayer. Follow manufacturer's instructions for foaming unit use.
  - *On walls, trash bins, under greasy equipment and other areas with grease and organic buildup: Spray foam liberally. Leave on surfaces undisturbed for as long as possible.*

- Avoid use of anti-microbials and disinfectants in treatment area.
- *On floor drains and tap drains:* Fill with foam until there is full coverage from the drain cover to the P-trap.
  - *On tap and fountain type drains:* apply BioStim Conquer Microbial Foam to fill outlet tube (approx 8oz).
2. After foaming, the foam will dissipate and revert to a liquid form to deliver the microbes. Leave on surfaces undisturbed as long as possible and avoid rinsing during this time to allow microbes to replicate and begin digestion of FOG.
  3. Repeat monthly.

### Vent Hood Magic

This is a premixed product - use a full strength; no dilution required.

*Automatic spray/mist system* - Follow manufacturer's instructions for application.

*Manual application* - Spray directly on grease and let sit to loosen grease & grime. Scrub where necessary, then rinse thoroughly.

## MICRODRIP DISPENSER & CARTRIDGE

Dispenser Dosage Chart	<u># Meals Daily</u>	<u># of dispensers</u>
	1-750	1
	750-1,500	2
	1,500-2,250	3
	Over 2,250	1 at every grease source*

*\*All food service main drain lines, including three-compartment sink drain lines, garbage disposal drain lines, food preparation sink drain lines, dishwasher drain lines with water temps below 140°F.*

**Dispenser Installation** - See instructions in box.

### Cartridge Initial Installation

1. Open dispenser using key provided.
2. Gently shake new cartridge and insert in dispenser by aligning actuator tip of cartridge inside green adapter. Position cartridge collar into dispenser bracket. Gently press cartridge into place.
3. Press RED "Power" button; the LED display will appear.
4. Press the GREEN "Rent" button until "30" appears in the LED display. "30" will display for 4 seconds and then the next spray countdown will start.
5. Close dispenser cover.
6. Replace cartridge monthly. Replace batteries every 6 months.

### Cartridge Replacement

1. Turn dispenser to OFF. Open dispenser using key provided and remove old cartridge.
2. Gently shake new cartridge; place into dispenser by aligning actuator tip inside dispensing tube.
3. Position cartridge collar into dispenser bracket. Gently press cartridge into place.
4. Turn dispenser to ON.
5. Replace cartridge monthly. Replace batteries every 6 months.