

# InVade Technology

By

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## **Introduction**

The presence of moisture and organic matter creates special challenges for sanitation in commercial facilities. If left unaddressed, these problems can result in nuisance at best, and threats to health and safety at worst. The types of facilities affected include restaurants and commercial kitchens, cafeterias, schools, hospitals, nursing homes, food processing plants, convenience stores, prisons, kennels and animal research facilities. Food areas and garbage areas are the primary problem spots, as well as communal shower areas in facilities such as prisons and health clubs. Wash down and wet mopping tends to push food or other organic matter and moisture into cracks and crevices where it builds up, often making problems worse.

Sanitation in these facilities can be addressed most effectively and in a “green” manner with the InVade range of microbial cleaners. These products utilize natural, probiotic soil microbes to digest scum and eliminate odors. The premium blend includes microbes that digest fats, oils and grease (FOG), carbohydrates, proteins, cellulose and urea (to eliminate urine odor). Using the proven products and methods described here, service companies can take advantage of this opportunity with confidence and pursue sanitation business as an add-on service.

## **InVade Bio Foam**

InVade Bio Foam is a complete concentrate, containing powerful, scum-eating microbes, foaming agent and great smelling natural citrus oil – it is easily diluted with water at a rate of 1 oz to a quart or 4 oz to a gallon, with the easy squeeze-n-measure bottle or gallon jug with pump top. The foam provides an extended contact time for the microbes to work. The microbes digest the scum and the citrus oil provides extra power and a great smell.

For best results, InVade Bio Foam should be used with the Foamer Simpson - the leading, 2-gallon pump-up foamer that delivers the best foam in the industry. It produces shaving-cream-thick, power-foamer-quality foam at a fraction of the cost of an electric foamer and is easier to carry around. It comes with a handy 18” extension wand for getting down into drains, into voids and into other hard to reach areas. Air is needed to make the foam, so it is recommended that the Foamer Simpson be filled to a maximum of one gallon for best results. An adjustment valve allows foam thickness to be regulated, while a handy pressure relief valve provides greater safety and convenience. For best results, water should be put in the foamer, followed by the InVade Bio Foam and the tank swirled, not shaken. One gallon of diluted product will last for about an hour of active foaming.

For a “foam clean out”, foam should be applied liberally to all scummy areas (avoiding direct food-contact surfaces). These areas include drains, along baseboards, behind bars, in the drip trays of drink fountains, bundles of syrup or beer lines that get covered in sticky goo, under ice machines and other equipment etc. Basically, all the areas that should be cleaned but aren’t should be foamed. While foaming drains is important, the other areas noted must be treated as well

for best results. Foam can also be beneficially applied under dumpsters outdoors to address scum and odors. The foam should not be washed up - it should be left to slowly dissipate. Mornings, or after close in the evenings are the best times to apply - the product should be left undisturbed for as long as possible.

The foam clean out should be budgeted at 1 to 2 hours for a typical full size restaurant kitchen. Usage of InVade Bio Foam will be 4 to 8 oz of concentrate (1 to 2 gallons diluted). A second treatment may be required one week later. The foaming should be repeated in the problem areas monthly, with product and time required being about 1/3 the amount needed for the initial clean out. Monthly foaming is ideal as a standard service in all the types of commercial accounts described at the beginning. Some companies are also providing drain foaming as part of their residential service, in areas such as garbage disposals, infrequently used drains and HVAC condensation lines.

### **InVade Hot Spot**

InVade Hot Spot is the same highly effective InVade Bio Foam in a ready to use aerosol can. Great as an add-on sale or perfect to keep on hand in the service vehicle for quick jobs, Hot Spot is the ultimate in convenience. Hot Spot also works great for many household uses (see the can label for details). Hot Spot now comes with two 24" hose extension actuators in each case. The extensions are also sold separately.

### **InVade Bio Cleaner**

InVade Bio Cleaner is a versatile, liquid cleaner containing microbes and citrus oil, as well as chemical surfactants. In accounts with lots of floor level problems, such as cracked tile, missing grout, or peeling away baseboards, InVade Bio Cleaner should be sold to the client for regular use in their mop water or spray water (no other cleaners needed). A traditional cleaning routine will only push organic matter into cracks and cause scum to build up. InVade's potent degreasing action can also help reduce slip and fall liability. For mopping, 4 oz of InVade Bio Cleaner should be used in the standard mop bucket (3-4 gallons). The product can also be applied with a hose-end sprayer or power sprayer, at a rate of 1-2 oz per gallon of water.

InVade Bio Cleaner may also be sprayed in the same manner as InVade Bio Foam, without the need for special foaming equipment ("poor man's foaming"). It will typically take 2-3 treatments to be as effective as one foam treatment, but is ideal for maintenance situations. It should be used in a standard pump sprayer, and diluted with one to three parts water. This solution is also great for spraying on urinals and other restroom surfaces for odor elimination.

Outdoors, diluted Bio Cleaner should be sprayed, or power sprayed in and around dumpsters and pads, and any other area where scum or grease accumulates. Garbage bins outside of convenience stores and other retail stores tend to get a sticky build-up from soda and food being thrown away. These bins and the surrounding area should be sprayed as well.

Kennels are another great area for Bio Cleaner. To eliminate odors and build-up, diluted Bio Cleaner should be sprayed on a regular basis. The product is safe and effective for use around pets.

### **InVade Multi RTU**

InVade Multi RTU is a new, ready-to-use all in one product that works well for foaming, mopping, surface cleaning, odor elimination and drain treatment. It is the perfect item to use as an add-on sale item, because clients will not have to worry about different products for different applications. InVade Multi RTU contains the same powerful scum eating microbes and citrus oil as other InVade products. Each quart bottle comes with a handy foaming sprayer.

### **InVade Bio Drain**

InVade Bio Drain is available for sale to accounts to apply to drains themselves. InVade Bio Drain can also be applied to soda fountain drip tray drains to eliminate 'sugar snake'. The thickened formula coats the sides of drains, while the powerful microbes digest the scum. Clients will love the fresh orange scent!

### **SeptiTreat**

SeptiTreat is a 100% natural, non-toxic, biological treatment to keep septic systems functioning properly and sewer lines flowing. SeptiTreat contains premium natural microbes that digest organic waste, including fats, oils, and grease (FOG), carbohydrates, proteins, cellulose, and urea and reduce odors. For an easy add-on sale one 8 oz bottle of SeptiTreat can be poured into the toilet and flushed. SeptiTreat may also be poured down a drain, followed by about a gallon of water. One treatment is adequate for a typical household on a quarterly basis.

### **InVade Bio Bullet**

InVade Bio Bullets are solid blocks laden with a high concentration of powerful natural microbes. The blocks slowly dissolve as water runs over them. Available in three sizes, the 5 lb bullets are perfect

for grease traps, to reduce required pump outs and odors. The 1 lb bullet is perfect for interceptors, or for hanging in larger rectangular floor drains. The 100 gram "Minis" can be put just about anywhere – such as in condensation pans under ice machines, in beverage fountain drip trays, or on top of drains that are under counters or equipment and difficult to access. They are also perfect as urinal blocks.

### **Other Useful Information**

InVade products contain premium microbes in spore form that resist chemical attack. However, results with the products will be best if bleach, ammonia or other products labeled as 'disinfectants' or 'anti-bacterial' are not used in the same areas. The spores are activated when they come in contact with their food (the scum) and begin producing bacterial colonies. These bacteria act as 'enzyme factories' that then digest their target organic substrate. The bacteria keep producing enzymes as long as moisture and their food source are available. The by-products of digestion are carbon dioxide and water vapor, the same things humans and animals exhale. Any inorganic components of the scum may also remain as a fine ash (similar to when something is burned) which can easily be washed up. The process by which the microbes in InVade products work is the same as that which goes on in the digestive system of humans and animals, and also in soil composting. InVade cleans the way nature cleans.

While the microbes in InVade are natural and non-toxic, as a common sense precaution, the products should not be used on food contact surfaces unless that surface is disinfected with a quaternary ammonia product or steam after treatment.