

# WHAT IS BIO-CLEAN

BIO-CLEAN is... a blend of bacteria and enzymes. The bacteria are natural, not genetically-engineered. The enzyme concentration is the most powerful on the market.

## **SAFE**

Bio-Clean is non-poisonous. It creates no heat, no fumes, no boiling. It does not attack live tissue nor inorganic materials, only organic wastes like grease, hair, food particles, paper, cotton & sewage. This makes BIO-CLEAN safe for people, plumbing and the environment. BIO-CLEAN changes the waste particles into water, carbon dioxide and mineral ash which run harmlessly out of your waste system. These elements are then available for plant life.

## **EFFECTIVE**

Within an hour after pouring the bacteria into the drain, the bacteria begin to eat their way into the waste that has accumulated on the sides and top of the drain pipe. This is their natural food. They digest the waste and spread throughout your system, cleaning it completely.

## **MULTIPURPOSE**

- Residential and commercial applications
- All drain and sewer pipes, including:

Kitchen Sinks

Lavatories

Bath tubs

Showers

Floor drains

Laundry drains

Septic tanks and drain fields

Garbage disposal odors

Grease traps

Sewage ejector sumps

Outdoor outhouses and cesspools

R.V. & boat holding tanks

Lift Stations

Cat Litter Boxes

## **ECONOMICAL**

- 100 drain treatments per 2 lb. container
- 2lb. container treats 1,000 gallon septic tank
- Eliminates the need to clean grease traps and cable drains
- Eliminates the need to buy dangerous chemicals
- Eliminates the need to buy deodorant blocks (urinals.)
- Eliminates costly compensation to employees that have been injured by using dangerous chemicals.

# How to use BIO-CLEAN

In Nature all animal and vegetable matter, from insects to mighty oaks, is broken down and recycled into plant food by enzymes and bacteria. BIO-CLEAN uses this same principle to biodegrade animal and vegetable waste in pipes.

Like all living things, bacteria must eat to survive. Fortunately certain types of bacteria will use for food the grease, hair, soap film and all the organic waste that tend to clog peoples drains.

Enzymes act like short order cooks. They prepare food for bacteria by breaking large molecules down into a size the bacteria can “swallow.” Each enzyme works on one specific type of molecule. For example, the protease enzyme only works on protein. Lipase works only on fats.

The bacteria in BIO-CLEAN are dormant while in the jar. When mixed with water they come to life in about 30 minutes. In the meantime the enzymes are breaking down the waste. They are very fast. In fact, they work on contact. When the bacteria revive they are hungry. Each one eats its weight of waste every minute - and they never sleep! As a result of eating and growing they start to multiply through cell division. Their number will double every 30 minutes under favorable conditions.

BIO-CLEAN should be mixed with warm (not hot) water and applied when no water will be drained for six to eight hours. This allows some of the bacteria time to embed themselves into the waste so they won't be washed out when water is drained again. Complete instructions are inside each container.

Periodic maintenance treatments prevent new organic waste build-up, so no more slow drains or clogs!

## SEPTICS

Most septic systems in operation today are not functioning well. The tanks need pumping frequently because of solids build up. All too often the fields stop absorbing water prematurely. The number one reason is the vast array of household chemicals which either inhibit or kill biological action. The coliform bacteria normally present in sewage are in no way equal to present day demands. They are used to warm body temperatures and are poor enzyme producers. They cannot handle synthetic materials present in detergents even under the best conditions.

BIO-CLEAN contains not only potent enzymes, but also contains bacteria that outperform the coliform species in very important ways. They are high producers of enzymes and they are acclimated so that they feed on a larger variety of materials in the waste such as fats and grease, vegetable oil, paper, detergents, fabric softeners, aliphatic and aromatic organic compounds as well as synthetic organics.

Chemicals, bleaches, detergents, food preservatives and bowl cleaners inhibit or kill bacterial action within your system. This lets solids accumulate in the tank, some of which flow out and clog the drain field. BIO-CLEAN will restore the necessary bacterial action and make your system work at full efficiency!

People on a septic system must select their cleaning products very carefully. For a list of recommended cleaning products, consult an authorized BIO-CLEAN dealer.

## **GARBAGE DISPOSALS**

Odors come from waste that sticks to the disposal wall and slowly molds and rots. It is hurled there by the high speed rotating blades. By following BIO-CLEAN instructions this waste will be quickly digested by the live cultures, thus eliminating the odor.

## **GREASE TRAPS**

Cleaning out a grease trap is the worst of jobs in a food service operation. After the horrible odorous muck is removed it still has to be disposed of. Unfortunately, we are running out of landfills to put it in. BIO-CLEAN will digest the grease, eliminating the unwanted task, as well as the disposal of the pollutant. Of course, the grease trap must be large enough to accomplish two things. The flow of the water through the trap must be 1) slowed and 2) cooled, so that the oils and fats can rise and be retained between the baffles while the water continues on down the sewer. Also, a garbage disposal should never discharge into a grease trap. If these criteria are met, daily treatment of the pot sink will maintain the digestive action. By eliminating the need to pump the trap a significant cost savings results.

## **SUMPS WITH PUMPS**

When ground water accumulates in sumps, odors may be noticeable. This is especially true if household or sanitary waste is present. BIO-CLEAN eliminates the odor by quickly digesting organic material in the waste water. Pumps will require less energy when the rotor, housing and lines are free of build-up. Lower energy costs and longer pump life are added bonuses for using BIO-CLEAN.

## **OUTHOUSES AND VAULTS**

Mention an outhouse and the first thing that pops to mind is ODOR! BIO-CLEAN turns the waste into water and carbon dioxide very quickly. This dramatically reduces odor and flies. Cleaning and disposal of the pit become easier and it is more pleasant for the user, too.

## **R.V. & BOAT HOLDING TANKS**

As the waste water level increases in the tank some scum adheres to the sides and sensor. When the tank is drained, more scum is deposited. With continued use, this coating becomes odorous. It is additional weight and reduces tank capacity. There is no large access to the tanks and the build-up is so great that clean-up is difficult and time consuming that replacing the tank is often less expensive!

R.Ver's using chemicals in their tank are also encountering the new problem of not being able to dispose of their chemically treated waste at many dump stations. Waste water treatment plants do not want this chemical toxicity in their plants, so they charge dump stations large fines.

If BIO-CLEAN is used from the beginning, a tank will drain cleanly, including the sensor, if there is one. Using BIO-CLEAN in a tank previously treated with chemicals will take larger doses and some time to overcome the toxicity. It will, however, remove the old build-up. Waste from tanks treated with BIO-CLEAN is accepted anywhere because it is biologically active.