



PIT TOILET + SEPTIC SAND

Isoclean pit sand is used for the effective degradation of solid waste in pit toilets and septic tanks. Our formulation is a blend of natural bacteria and enzymes, blend of superior aerobic (not less than $8 \times 10^8/g$) and anaerobic (not less than $7, 8 \times 10^8/g$) bacteria selected for their ability to degrade organic waste.

Mention a **pit-toilet** and the first thing that pops to mind is odor, flies and maggots. Isoclean pit sand turns the waste into water and carbon dioxide very quickly. This dramatically reduces odour and flies, and without flies there are no maggots. Cleaning and disposal of the pit become easier and it is more pleasant for the user. Filling of the pit toilet is significantly prolonged and percolation into the underground is contaminant free.

Most **septic systems** in operation do not function 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.**

In nature, all animal and vegetable matter, from insects to mighty oaks, is broken down and recycled into plant food by enzymes and bacteria. Isoclean pit sand uses this same principle to degrade animal and vegetable waste. Like all living things, bacteria must eat to survive. Fortunately, certain types of bacteria will use grease, hair, soap film and all the organic waste for food.

Within minutes after pouring the bacteria into the affected area, the bacteria begin to eat their way into the waste that has accumulated. This is their natural food. They digest the waste and spread throughout your system, cleaning it completely. The bacteria in Isoclean pit toilet and septic sand are dormant while in the container. When exposed to or mixed with water they come to life in few minutes. In the meantime, the enzymes are breaking down the waste. They act 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 numbers will double rapidly under favorable conditions.

Applications:

- **Outdoor toilets, pit toilets**
- **septic tanks, drain fields, sewage ejector sumps**
- **Residential & commercial - drain & sewer pipes, floor drains, grease traps,**
- **sinks, baths & showers, laundry drains**
- **RV & boat holding tanks**
- **Cat litter boxes**

Directions:

The following dosages are merely a guideline. Contact Isoclean for assistance if required.

Pit Toilets (Long-Drops): Mix sachet with warm water (not hot)/ or if water is not available empty the sachet powder down the toilet opening. Treatment is 1-2 packs per month dependent on use. At time an initial boost treatment will be required prior to one pack per month.

Septic Systems: Mix sachet with warm water (not hot)/ or if water is not available empty the sachet powder into the septic tank. Treatment is 1-2 packs per month dependent on use. At time an initial boost treatment will be required prior to one pack per month.

Drain treatment: Mix sachet with warm water (not hot) and applied when no water will be drained for six to eight hours. This allows some of the bacteria time to embed them into the waste so they won't be washed out when water is drained again. Periodic maintenance treatment prevents new organic waste build-up, so no more slow drains or clogs!

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. Our sand will digest the grease, eliminating the unwanted task, as well as the disposal of the pollutant. 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 (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. Eliminating the need to pump the trap offers significant cost saving.)

Garbage Disposal Systems

Odors come from waste that sticks to the disposal wall and slowly moulds and rots. Using Isoclean pit toilet and septic sand the waste will be quickly digested by the live cultures, thus eliminating the odor. Please contact us directly for dosage rates.

Sumps with Pumps

When ground water accumulates in sumps, odors may be noticeable. This is especially true if household or sanitary waste is present. Isoclean pit sand 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. Please contact us directly for dosage rates.

RV and 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 often so great, and clean-up so difficult and time consuming, that replacing the tank is often less expensive.

RVs 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. Wastewater treatment plants do not want this chemical toxicity in their plants, so they charge dump stations large fines. Please contact us directly for dosage rates.

If Isoclean pit toilet and Septic sand is used from the beginning, a tank will drain cleanly, including the sensor, if there is one. Using our sand 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 Isoclean pit toilet and septic sand is accepted anywhere because it is biologically active.

Safety:

- Isoclean pit sand is an environmentally friendly, safe-to-use product that contains a non-GMO strain of Bacillus Subtilis spore and various Enzymes derived from this organism, for example Bacterial A-Amylase and Proteases.
- No product specific certification is provided for, however, the strain for the active ingredients is non-pathogenic and the enzymes are produced by standard fermentation techniques and conform to Generally Recognized as Safe (GRAS) status and have FDA approval for Foodstuff applications.
- The preparation conforms to FAO/WHO and FCC recommended standards.
- In the event of an accidental spillage, wash the affected area with water.

Product Characteristics:

- Bacteria Counts: Aerobic bacteria not less than $8 \times 10^8/g$: Anaerobic bacteria not less than $7, 8 \times 10^8/g$
- Heavy Metals: Less than 50ppm
- Aflatoxins: Absent
- Antibiotic Activity: Absent
- E. Coli: Absent in 01.g
- Appearance: Tan, low dusting powder on a cereal/salt base
- Packaging: 100 gram sachets, 25kg bags
- Solubility: >80% in H₂O
- pH: 5,0 – 8,5
- Effluent with a pH outside this range should be pre-treated with a suitable acid or lime prior to dosing with BIO-TORQ LD100
- Temperature: Up to 50oC

Storage:

To maintain maximum activity of the enzymes and the viability of the bacteria, Isoclean LD100 should be stored under cool, dry conditions, at temperatures less than 25°C.

Safety:

Isoclean pit toilet and septic sand is non-toxic. It creates no heat, no fumes, no boiling. It does not attack live tissue or inorganic materials, only organic wastes like grease, hair, food particles, paper, cotton and sewage. This makes Isoclean pit toilet and septic sand safe for people, plumbing and the environment. Our formula 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.

Inactivation of Isoclean pit sand :

Bacteria / Enzymes present in Isoclean pit toilet and septic sand will tolerate temperatures up to 70°C. However, the bacteria in the product cannot tolerate temperatures in excess of 50°C. High concentrations of heavy metals will inhibit the activity of the product. Common cleaning agents containing chlorine (bleaches) and quaternary ammonium compounds (disinfectants) etc. can have a detrimental effect on the product. Neutralisation of these inhibitors is necessary before treatment with Isoclean pit sand.

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