

Pit Latrines



INTRODUCTION:

Pit latrines around the world, are a fact of life and it may take a long time before they disappear totally. Like sewage stations, they are a necessity of life. With simple and proper management; pit latrines can provide service without the smell and other factors, which can endanger the health of the users.

As they are diffused and erected virtually in any place, it is important that once their usage starts, natural bacterial activity is commenced and maintained twice a month to eliminate smells, pathogens and the possibility of contaminating ground water.

HEALTH:

Like all toilets that rely on nature to dissolve the sewage, such as pit latrines, long drops, French drains etc. time and sewage volume play an important role. Smells of ammonia and hydrogen sulphide indicate that the system is saturated and will not

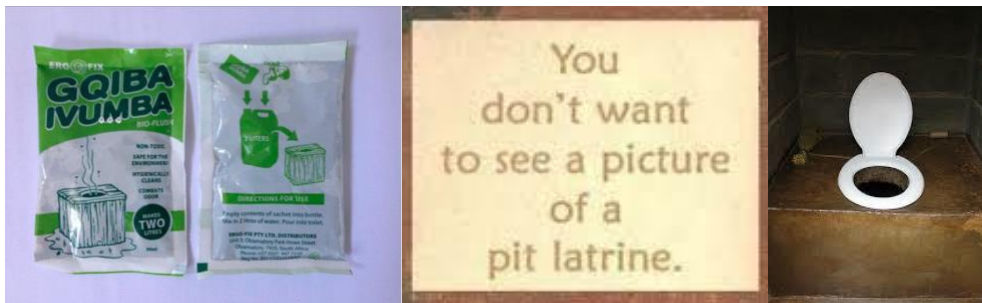
cope with the volume. It also indicates that the natural group of bacteria that decomposes the said sewage is overwhelmed.

These smells are offensive to humans and are nature's way to tell us to stay away, which in our case we can't as we have to utilize them. People's health is now endangered. If the natural bacterial activity is not coping with smells, it will not cope with pathogens either and maladies may prevail. Ground water could be endangered starting a whole new set of problems. The problem has to be managed from the start.

SOLUTION:

The problem can be managed in various ways:

- Pump out the contents of the pit latrine monthly and cart the raw sewage to the nearest sewage treatment plant.
- Use chemical products to mask the offensive smell or to curtail decomposition
- Add natural bacteria to the pit latrine.



In the first two traditional options, the problems are evident, the first being the cost and practicality, with the second option risking contamination of the area and possibly the water tables.

The solution is to add natural bacteria and let nature do what nature does best. Ergofito Bioflush is a natural bacterium presented in a liquid form. These bacteria will eliminate offensive odours in two minutes and aggressively start decomposing the sewage into CO₂ and topsoil.

The sewage volume is reduced and the life of the pit latrine is extended and harmful effects eliminated.

DOSAGE:

To obtain optimum results and sustainable results, Ergofito Bioflush should be added to the pit latrine once or twice a month. By simply mixing the Ergofito Bioflush with water (even dirty water or urine) and throwing it down the toilet.



The bacteria and nature will do the work. Decomposition commences immediately. Due to the fact that the product is totally nontoxic (approved by the Department of Agriculture, Fisheries and Forestry) it can be delivered by personnel that are part of the community and with little training and no skills.

Recommended dosage:

Mix 100 grams of Ergofito Bioflush with water per month per pit latrine.

If the pit latrine smells, add one more dose, if smell abates reduce dosage.

CONCLUSION:

Pathogenically neutralized sewage has no offensive odour and can simply be used as a fertilizer for food or for non-food crops (bio diesel, shrubs, pasture, flowers etc.). In pit latrines there are no heavy metals or dangerous compounds once bacterially treated.

Nature uses the same bacteria to do the job.

Ergofito Bioflush is exported worldwide and benefit from certifications such as Environmental Protection Agency in the USA to the PME in Saudi Arabia.