



## Waste Disposal

For sewerage plants, septic tanks & pit latrines

A microbial based natural product for waste disposal. Fast reduction of human waste, reducing smells & insects.

BioTreat is a non-disease causing, dormant powder, naturally occurring in nature and contains vegetable microbes or bacteria that digest human solid waste, tissue paper, fats, oils and grease at an accelerated rate.

Enhancing the performance of the microbes through a natural process that does not involve any non-naturally occurring additions. Other non-pathogenic natural substances such as forms of saltpetre, are added to enhance performance. The main use for BioTreat is that it can be added to pit latrine toilets or septic tanks and sewerage plants.

### “50% reduction in levels in just 23 days”

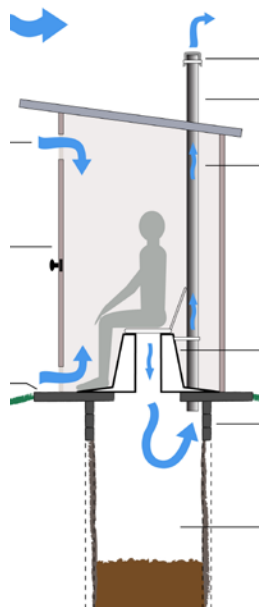
Results will depend on prevailing conditions, but we have observed a 50% reduction in 23 days as well as a reduction from 2.5 metres deep down to just 200 mm in 7 weeks at rural schools. There is a reduction in smell within 36 hours and a noticeable lack of flies and cockroaches in 48 hours.

### “2.5 metres to just 200 mm in 50 days”

Our experience shows that while this is obviously a far cheaper and less labour intensive exercise than either digging a new pit or mechanically emptying the existing pit, the biggest reward for the owners of these toilets is the improvement in smell (almost no smell) and the lack of flies and cockroaches.

The improvement in living conditions that these two factors bring is remarkable.

Excellent results with substantial savings have been recorded at mass sewerage plants where we have been instrumental in unblocking entire sewerage systems and then continued to contribute dramatically to the smooth running of the facilities.



### ABOUT BIOTREAT

- 100% Natural
- pH Neutral
- Aerobic & Anaerobic
- Highly Active Cultures & Fungus
- Digests Human Solid Waste, Paper, Fats, Oils & Hydro-Carbons
- Reduces Smells & Insect Presence
- Safe & Economical

### HOW TO USE

BioTreat Powder should ideally be mixed with warm water (not hot), left to stand for a few hours (2-12 hours) before adding to latrine/tank.

The mixture of powder to water should be around 100g powder to roughly 2 litres of water.

The toilets should be treated every 4-6 weeks as the levels reduce and users should avoid throwing non organic substances into the toilet as well as harsh solvents and cleaners as this will have a negative effect on the microbes.

### WHAT HAPPENS NEXT

Microbes spore or generate Enzymes. The enzymes digest the human solid waste and as they ‘feed’, they generate more and more Enzymes (at a rate of 10 to the power of 6 every 24 hours), so that the breakdown of the human solid waste occurs at a faster and faster rate.

The waste is digested by the enzymes leaving behind a combination of water and a small biomass, while allowing carbon dioxide to escape into the atmosphere.

## Remove the Need for Waste Removal or Hole Digging

BioTreat is non-pathogenic, stable powder which is a suspension of spores and vegetative micro-organisms. Simply put, it is a non-disease causing, dormant powder which is naturally occurring (found in nature, not laboratory engineered) and contains vegetable microbes or bacteria that digest human solid waste, tissue paper, fats, oils and grease at an accelerated rate.

We have enhanced the performance of these microbes through a natural process that does not involve any non-naturally occurring additions. Other non-pathogenic natural substances such as forms of saltpetre, have been added to enhance performance.



## About Our Products

Specialising in environmental cleaning solutions, our products are formulated to clean and remove heavy and light oils mineral or plant oils, animal fats, grime and human waste. You will find our products at work in workshops, machinery, vehicles, engines, shopping centres, kitchens and mines and the remediation of human solid waste in pit latrines and sewerage plants to name a few. Always full strength and effective to save time and cost.

- » Environmentally Acceptable
- » Readily Biodegradable
- » Microbial – in the case of our powders and some of our liquids
- » Mostly water based (as opposed to solvent based)
- » Safe for human or animal contact, used in the food industry
- » Superior to the competition

We are able to supply product solutions that fit all the above criteria, for almost any application in the field of oil, fat, grease, grime and contaminated soil. ISO 9001 and ISO 14000 compliant, our experienced staff have many years of experience in our field.

## REFERENCE SITES

### The Royal Bafokeng Nation Sanitation Project

*12 Villages with waste levels of between 3m and 8m saw an average 47% decrease in waste levels over the 23 day BioTreat period. Non-treated toilets saw a 30% increase in waste levels.*

### Eco-Sanitation Solutions

*"We have been testing human waste degrader products and our conclusion is that BioTreat wins. We tested 43 different products from India, UK, USA and there in South Africa. I will contact soon for an order."*

Posko M Joel

### SaveMore Kwanbo

*"Since we started using BioTreat about 6 months ago, we no longer need to have our septic tank emptied and we were having to do this every month which was costly as well as inconvenient. Our system is now working as it should and we no longer have problems with our constantly overflowing septic tank."*

Greg Rootman

### Thanda Private Game Reserve

*"Since we started using BioTreat over a year ago, we have eliminated the problem of overflowing and blocked septic tanks. Our system is now working efficiently and we no longer have problems with blockages, overflowing and the associated smell and unsightly mess."*

Gary

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