

BIO CLEANING SOLUTIONS

*Bio Tech GTX 1 FF Ready to use
 Foam Up - Application for cleaning difficult and
 verticle surfaces*

Multi-Purpose bio-formulation foaming concentrate

Bio Tech GTX 1 FF Foam Up microbial consortium demonstrates superior bio-enzyme performance for use in multiple applications. It exhibits a broad range of degradation capabilities needed for a multi-purpose product efficacious in maintenance of hard surfaces in bathrooms, toilets and urinals and cleaning and odour control making this product technologically the most advanced on the South African market.

In their natural environment, bacteria produce hundreds of enzymes in response to the organics present in their environment. They produce extracellular enzymes that break down proteins, starches, fats, oils, greases, urine, esters and toilet tissue into smaller particles outside the bacterial cell. The bacteria then transport the smaller particles across their cell membrane for use as an energy source and for building of new cellular components. Since bacteria detect the organics present as potential food and produce specific enzymes to breakdown these organics, it is a very efficient system. Many different enzymes are required to completely breakdown a substrate.

The bacillus consortium in **Bio Tech GTX 1 FF Foam Up** produces seven separate enzymes to ensure a swift degradation of key organic contaminants to ensure drain lines, grease traps, septic systems and surfaces are biologically cleaned and odours controlled. Although many bacteria can utilise these organics as food sources, it is the bacteria with the most rapid production of these enzymes that provide the most dramatic effects.

Safety of Bio Tech GTX 1 FF Foam Up Consortium:

Bio Tech GTX 1 FF Foam Up contains a blend of safe Bacillus microorganisms. Toxicity studies done by an independent laboratory shows that the consortium has no acute oral toxicity, no acute dermal toxicity, and no acute inhalation toxicity at maximal test dose. Acute dermal irritation and acute eye irritation studies classify **Bio Tech GTX 1 FF Foam Up** consortium as non-irritating, the consortium does not elicit a skin sensitisation reaction.

DATA SHEET

| Benefits | Features |
|--|--|
| <ul style="list-style-type: none"> Drain lines – rinse water degrades and eliminates organics found in drain lines. Regular use of BIO TECH GTX 1 will maintain a cleaner and odour-free system. Septic and waste treatment – rinse water will maintain effective activity in septic systems, eliminating the need for excessive pumping. Eliminates odours caused by incomplete digestion of malodorous volatile fatty acids. Hard Surface and Bathroom cleaning and odour control – penetrates cracks, crevices and pores of surfaces where organics accumulate, removing the organics leaving a visually cleaner surface. Provides long term odour control by removing the organics that cause odours and prevents their return. | <ul style="list-style-type: none"> A stable consortium of safe <i>Bacillus</i> spores Production of multiple enzymes providing a wide range of degradation capabilities A synergistic blend that works in concert to provide superior performance across multiple applications Excretion of high levels of amylase, cellulase, lipase, protease, urease, esterase & xylanase enzymes Ability to work under aerobic and anaerobic conditions Single product simplicity for multi-application flexibility Advanced foaming capability particularly for difficult to reach and vertical surfaces |

PRODUCT CHARACTERISTICS

- Bacteria Counts** : 6.6 X 10⁸ /ml
- Bacteria Type** : Bacillus consortium producing the following enzymes:
 - ✓ **Protease** – breaks down proteins (e.g. meat, excreted/secreted proteins) into amino acids
 - ✓ **Lipase** – breaks down fats/grease into fatty acids & glycerol. If not broken down, fats can go rancid and lead to off-odours and blocked drains/fat grease traps.
 - ✓ **Amylase** – starch acts as a glue for dirt – amylases catalyse the break-down of starch into sugars which are then further used as a food source by the bacillus

- ✓ **Cellulase** – breaks down cellulosic material
- ✓ **Urease** - catalyzes the hydrolysis of urea into break-down products.
- ✓ **Esterase** - splits esters into an acid and an alcohol in a chemical reaction with water called hydrolysis. Esters have characteristic odours most of which are pleasant/fruity, however can also include onion/garlic and worse odours
- ✓ **Xylanase** – help in breaking down plant cell walls.
 - What this means – the bacillus use the multitude of enzymes produced to break down the components of malodour and staining to provide microbial cleaning at the smallest level of dirt/contamination.

- **Salmonella** : Not detected
- **Appearance** : Clear liquid
- **Fragrance** : Pleasantly perfumed

Dilution rates:

Bio Tech GTX 1 FF Foam Up is a ready to use product, Shake before use” as the biological spores may settle over time.

List of certified ingredients:

| | |
|---|------|
| Bacillus Subtillus bacteria | <10% |
| Bacillus Subtillus bacteria plus Enzymes | |
| Classified Eco Friendly Plant Based Surfactants | <25% |
| Soft Water | <70% |

Bio Tech GTX 1 FF Foam Up is designed as a bio-technical aid to treatment of organic waste material offering liquefaction and reduction of solids, reduction of odour, easier disposal of waste, aids general cleaning of soiled areas, safety in operation of effluent systems, offers a viable alternative to current processing techniques using a bio-technical approach.

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