BIO CLEANING SOLUTIONS

Bio Tech GTX 20 NF Concentrate

A consortium of high bacterial specification, multi-strain, spore based concentrate formulas for onward manufacture
Advanced biological liquid formulations

Bio Tech GTX 20 NF concentrate is a liquid bacterial concentrate that can be used for onward manufacture of products offering a high bacterial specification, multi-strain, spore based product for use in grease traps and drain maintenance applications.

Overview:
A consortium of high bacterial specification, multi-strain, spore based concentrate formulas for onward manufacture of products specifically for grease traps and drain maintenance. Blockages caused by the build-up of grease in drains causes disruption to normal organisational operations as well as creating malodours and even pest issues. The installation of grease traps is seen as a highly effective way to prevent these situations occurring and grease traps have become an important part of the effective operation of many businesses and organisations. For grease traps to work effectively, they require biological products to operate alongside the physical elements of their design.

DATA SHEET

Benefits

- Use to manufacture an 'environmentally responsible' yet highly effective range of products that are based on biological as opposed to chemical action
- Non-caustic and non-corrosive
- A quality controlled manufacturing process ensures high degree of product purity
- Very high bacteria specification for maximum effectiveness in this tough environment
- Specifically selected highly effective bacteria multi-strain formula for:
  - Production of lipase to cleave fats
  - Production of other extracellular enzymes to degrade food solids and sludge
  - Ability to survive in the low pH environment of an active grease trap
- Product contains Bacillus bacteria in 100% spore form for:
  - Extended product life
  - Product stability
  - Maintenance of original product specification
- Non-formulated to enable manufacture of custom products
  - Product offers maximum compatibility with a wide range of common ingredients e.g. surfactants, dyes and fragrances to enable manufacture of custom products applications
- A specifically targeted product for:
  - Grease traps
  - Heavy duty drain line maintenance
  - Waste water - fats, oils and greases

Features

- Most formulators have the capability to produce liquid products. These products allow formulators to have a presence in the lucrative biological grease trap product market without extensive specialist knowledge.
- The most common 'bio' products in the industrial, institutional and consumer market are liquids - the GT concentrates series are designed specifically for this use.
- Simple format that is easily dilutable in water.
- Concentrates are easy to handle and store.
- Simple dilution format for easy calculation in formulation advantages of biological grease degraders.
- Highly effective and proven natural technology.
- Reduces the requirement and frequency of mechanical treatment to unblock drains due to grease build-up.
- Product can be sold to service companies to be retailed as part of their regular maintenance service programmes.
- Grease is partially degraded by the time it reaches treatment plants, reducing system overload product format.

Bio Tech GTX 20 NF Concentrate can be used for onward manufacture of products offering a high bacterial specification, multi-strain, spore based product for use in grease traps and drain maintenance applications bacteria specifically selected bacillus spore blend enzyme production.

PRODUCT CHARACTERISTICS

- **Bacteria Counts** : 3.96 X 10^9 /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 and 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.

- **Appearance** : Straw coloured
- **Fragrance** : Neutral
- **Form** : Liquid
- **Shelf life** : 24 months (in un-opened container)
- **pH** : 7.0-8.0 (20X) (Performance properties effective pH range - 5.0 - 10.0 temperature range - 5 - 50°C)
- **Packaging** : 25 litre containers

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