



BIO-TORQ

GREASE TRAP

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

BIO-TORQ GT 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:

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 maintain balance.

DATA SHEET	
Benefits	Features
<ul style="list-style-type: none">• 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:<ul style="list-style-type: none">- 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:<ul style="list-style-type: none">- Extended product life- Product stability- Maintenance of original product specification• Non-formulated to enable manufacture of custom products<ul style="list-style-type: none">- 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:<ul style="list-style-type: none">- Grease traps- Heavy duty drain line maintenance- Waste water - fats, oils and greases	<ul style="list-style-type: none">• 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-TORQ GT 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: 3.96×10^9 /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 - catalyses 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: 5 or 25 litre containers

1. FOOD WASTE - Domestic & Industrial, reduce blockages of drains, pipes, treatment of effluent not on main drainage: reduction of odours and general purpose cleaning

Area	Dilution	Initial dose rate	Regular maintenance rate	Method of application
Effluent tanks/Cess pit	As is diluted 1:19	400ml per typical house	100ml per month	Access point: toilet
Urinals/Bathroom	As is diluted 1:19	400ml per typical house	100ml per month	As per cleaning method
Drains	As is diluted 1:19	15ml	15ml per month	Direct

2. AGRICULTURE WASTE - Reduction of high solids/crusting of water: Liquification and cleaning (i.e. Cow sheds, piggeries, poultry farms etc).

Area	Dilution	Initial dose rate	Regular maintenance rate	Method of application
Buildings	As is diluted 1:19	1000ml per 10 tons animal weight	Weekly 500ml dose	Spray over surface
Floors	As is diluted 1:19	1000ml per 10 000 litres	Weekly 500ml dose	Spray on Surface
Effluent pits/ponds/Slurry tanks	As is diluted 1:19	1000ml per 250 000 litre	Weekly	Spray over cone

3. SEWAGE PLANTS - General aid to processing

Area	Dilution	Initial dose rate	Regular maintenance rate	Method of application
Trickling filters	As is diluted 1:19	1000ml per 4,5ml litres	500ml per 4,5 mill litres daily	Add to primary settling tank
Anaerobic digestors	As is diluted 1:19	500ml per 45000 litres	500ml per 45000 litres daily	Add to inflow pipe
Retention Ponds	As is diluted 1:19	500ml per 45000 litres	500ml per 45000 litres daily	Add to inflow pipe

4. ABBATOIRS - For easier handling of high protein/fats in concentrated areas

Area	Dilution	Initial dose rate	Regular maintenance rate	Method of application
Total effluent	As is diluted 1:19	5000ml per 450000 litres daily	repeat for 3 days	Add manually
Grease traps	As is diluted 1:19	200ml per 500 litre capacity	100ml repeat weekly	Pour through drain

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