

## Grease Trap Liquid (GTL)

### Overview

Grease traps

Kitchen drain line maintenance

Lift stations, wet wells, rising mains

Septic Systems

*(FOG, BOD/COD, Odour control, sludge reduction, biological start up)*

Multi-strain microbial solution specifically formulated to degrade fats, oils and greases (FOG) and other types of food waste in the drain lines of food preparation areas.

### Technical description

FOG build up in drain lines, grease traps, interceptors lift stations and municipal sewer lines is a common worldwide problem resulting from incorrect disposal of cooking oils and fats. The results include blockages, floods, malodour, corrosion and pest problems and usually requiring expensive, unplanned reactive maintenance. GTL is designed as a simple dose controlled product to control buildup of FOG's.

The *Bacillus* bacteria used in GTL are selected specifically for their ability to produce a cascade of extra-cellular enzymes to rapidly degrade a wide variety of food wastes, including fats, oil and grease, protein, starch and fibre. The capabilities of these strains have also been tested under a broad range of environmental conditions to ensure they function in the field and not just in the laboratory. A further feature of the GTL strains is their ability to form biofilms – microbial communities consisting of billions of bacteria within the drainage system, which are highly resistant to occasional shocks of low or high pH, temperature or chemicals. The formulation contains no surfactant nor emulsifier, but does contain all the nutrients that the bacteria need to grow. The product also contains a selection of free enzymes to catalyse some of the reactions needed for overall effective performance. The strains are also tolerant to free chlorine up to about 20ppm, making them tolerant to many cleaning chemicals.

GTL can be used in drain line systems of kitchens, restaurants (especially QSR's), food re-heat, pan and pot wash drains leading to grease traps or interceptors, lift stations, wet wells and sewer lines. GTL is compatible with package treatment and bio-disk systems as well as septic systems.

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Features	Benefits
Application-specific bacteria strains with high enzyme production for rapid breakdown of all food waste types.	Dose controlled application.
Strains are proven to degrade wide range of fats, oils and grease all the way to carbon dioxide and water.	Can be used with and without dosing equipment.
No FOG emulsifying chemistry.	Multiple drain line applications from a single product.
Very high bacteria specification for maximum effectiveness in this tough environment.	Reduces the requirement and frequency of mechanical treatment to unblock drains or empty grease traps due to grease build-up.
Product bacteria form a biofilm on the inside of the pipes which offers protection against extremes of temperature and pH.	Reduces blockages and flooding.
Effective in a wide range of pH and temperature environments.	Removes insect pest breeding grounds
Designed for both manual and automatic dosing so problem is solved with minimum engineer input.	Provides rapid control of malodours
Performs between temperatures of 4-45°C	Non-caustic and non-corrosive
Long product shelf-life.	Cost saving.

## Product Characteristics

<b>Physical Aspect:</b>	White, water soluble, free-flowing powder
<b>Packaging:</b>	2x5L, 20L
<b>Stability:</b>	24months*
<b>Product pH Range:</b>	5.5 to 7.0
<b>Product Density:</b>	1.01g/cm <sup>3</sup>
<b>Nutrient Content:</b>	Biological nutrients and stimulants
<b>Bacterial Concentration:</b>	min 2x10 <sup>8</sup> CFU/g
<b>Usage Conditions:</b>	Do not freeze. Take care not to inhale dusts. Avoid excessive skin contact. Refer to SDS

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## Application areas

- All kitchen and catering areas discharging FOG and food deposits to drain
- Restaurants and QSRs
- Food reheat applications
- Pan and pot wash
- Drain line and grease trap maintenance
- Lift station and wet well maintenance
- Ships galley and scuppers
- Septic system maintenance
- Meat preparation areas

## Directions for Use

### Automatic Dosing

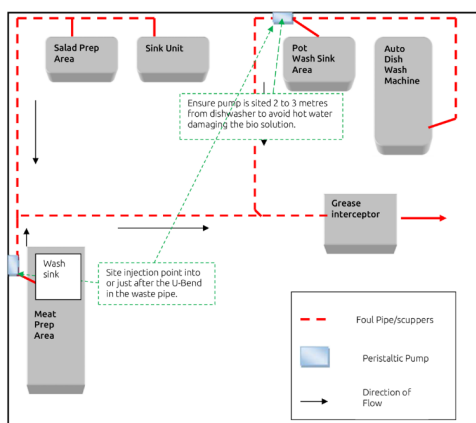
Pre-programme a suitable peristaltic pump to deliver 150-200ml/day of product. Locate the pump as close as possible to the main source of input (manual pot washing sink or rinsing station within the kitchen) and ideally just after the U-bend in the waste pipe.

Do not site injection point too close to a dishwasher waste outlet as the high temperature and high pH dishwasher discharge chemicals as these will have a negative effect on the biological action of the product.

Dosing should be timed to occur during a period when the kitchen is largely inactive and not directly after a clean down.

### Manual Dosing

Pour 150ml into 3L of clean water, mix well and pour down scuppers and waste pipes daily.



Representation of possible dose points

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## Optimum conditions for use

The bacteria in GTL perform within a pH range of between 5.5 and 8.5, with optimum activity near a pH of 7.0. Temperature affects the growth rate of the bacterial population and activity improves with a temperature of between 30°C and 37°C. No appreciable activity can be expected below 5°C and above 55°C.

## Compatibility

GTL is compatible with Grease Trap Powder (GTP) and Rumexo Bioblock/Biopuck, as well as General Purpose Biocleaner and MicroClean Plus. Please see separate TDS's for these products

## Storage & handling

- Store in a dry place at room temperature.
- Avoid excessive inhalation.
- Avoid eye contact.

Wash hands thoroughly with warm, soapy water after handling

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