

EU500S Heavy duty biological Drain cleaner soluble powder

For fast breakdown of organic material Fat - Grease and other problematic waste

A unique product containing non-pathogenic bacteria and additional free enzymes that is capable of breaking down organic matter far quicker than bacteria alone.



EU500S has been developed for the maintenance of drain lines, pipes and grease traps that have heavy loading with short retention times and the types of waste that are normally difficult to treat.

Mainly used in the food manufacturing industry and equally effective for use in sewers and pumping wells due to the high level of activity and tolerance to cleaning chemicals.

Faster action fits better with current catering practices and gives the option of using smaller more frequent dosing rather than the usual method of applying once at the end of the production shift.

A product with a totally harmless application.

- Accelerates the breakdown of organic material.
- Permanently breaks down Fat and Grease
- Clears blockages
- Considerably reduces foul smells
- Reduces ammonium levels
- Improves staff working conditions



Pumping well with a build-up of solids

Biological composition and function:

Facultative bacteria: Adapt to aerobic or anaerobic conditions and renew the supply of enzymes.

Amylases enzyme: These act on the carbohydrates (starches), turning them into dextrin's and soluble sugars.

Lipases enzyme: Their activity is developed on the greases, turning them into acids and soluble glycerol's.

Cellulase enzyme: Act on the cellulose, turning it into soluble sugars.

Activators: Improve the biological environment and increase activity of the enzymes.

Application rates:

Medium to large restaurants	10 to 15g per day
Fast food outlets	20 to 30g per day

For best results the product should be applied at times of low flow into the sink furthest away from the drains just after the U bend. This will keep the pipes and drains unclogged and odour free. Hot water should not be used immediately before or after dosing. Harsh chemicals such as caustic or bleaches should not be used with this product.

Cooked food manufacturing and processed meat sites:

Based on the collection tank capacity: 1kg of EU500S per 20m³ of tank volume

Apply into the sump or drain furthest from the collection or balance tank, this is to give maximum retention time for the bacteria to work and prevent blockages.

The doses quoted are by way of guidelines, as in each case it is necessary to consider the characteristics of each pit or drain, as well as the volumes, amount and kind of waste, the time needed for emptying and a whole series of factors.

Organic waste is made up of proteins, carbohydrates, fatty materials and fibres, which solidify and make it difficult to liquefy and reduce them. The insoluble solids and suspensions element are particularly difficult to break down. As a result, the solid build up and cake must be liquefied outside the bacterial cells and through the action of enzymes segregated by special bacteria.

The enzymes are protein biocatalysts produced by all living cells, which catalyse the specific biochemical reactions that turn the proteins, hydrocarbons, fats and fibres into products necessary for the cellular metabolism. Once the cellular metabolism has been produced, the bacteria multiply and segregate enzymes that digest more waste material. In essence, a biological chain reaction begins that can continue until all the organic material has disappeared.

EU500S is based on a compound of aerobic and anaerobic bacteria necessary for the molecular metabolism of the bacteria further improved with high levels of concentrated enzymes. This works as a biological activator that breaks down the residual organic matter.

Pits and drains do not have sufficient oxygen and have an unusually high biological oxygen demand B.O.D As a result they get blocked and produce foul odours. With EU500S it is possible to reduce B.O.D. levels by breaking down the waste and reduce the bad smells.

EU500S contains materials that increase the activity of the enzymes, such as salts, humectants, and micronutrients that catalyse and accelerate decomposition reactions, combined with wetting agents to increase the contact between enzymes and the waste materials.

The formula of EU500S complies with the principle of waste retention until the bacteria can digest the solid materials. In this way, only the materials made soluble can flow from the pit or be easily absorbed.

EU500S contains pH buffer materials; however, avoid if possible sending large amounts of acids or alkalis into the system. Temperature enhances the action of EU500S provided it does not continually exceed 46 °C. The lower the temperature, the lower the speed with which the waste is broken down.

HEALTH & SAFETY

EVAPORATION RATE: Non volatile

FLAMABILITY: Non flammable

pH: 7.0-8.0

TRANSPORTATION INFORMATION

No special conditions necessary

SPILLED MATERIAL

Flush to waste water sewer in accordance with regulations

EMERGENCY AND FIRST AID

Eye Contact: Flush with water for at least 15 minutes. Seek medical advice.

Skin Contact: Wash with water and limit exposure, if redness appears wash hands thoroughly after handling. Wash clothes before reuse.

SPECIAL PROTECTION

The preparation contains <1% enzyme protein but certain individuals may become sensitised.

Use in ventilated area. Wear gloves and use eye protection.

STORAGE & HANDLING

Do not freeze; avoid exposure to temperatures above 46°C.

Available in 8x 1kg bags and 10kg bulk packs

Form: Soluble powder

Colour: Pale blue

Smell: Apple

Full MSDS information on application

E-mail: sales@biosystemseurope.co.uk

Web: www.biosystemseurope.co.uk