



## Technical Data Sheet

### 1.0 Introduction :

Fermenta Biotech Ltd is a pioneering biotech company, since 1986 focusing on research based Biotech products. Our core strength lies in developing novel Bio-enzymes for varied industrial application enabling us to provide total & integrated biotech solutions.

### 2.0 Product overview :

FERMSEPT® – SG is the synergistic blend of naturally selected beneficial, harmless and robust bacteria, macro and micro nutrients, and biological additives with enhanced microbial colonization in organic effluents. These bacteria are isolated from polluted environment so as to have the higher efficiency in degradation on organic waste in combination with our technical expertise.

FERMSEPT® – SG is specifically formulated with extra efficiency for stabilization of process and commissioning of ETP in Sugar industries.

### 3.0 Application :

- **Sugar industries**
  - ◆ ETP / UASB / Aeration Tank
  - ◆ Biogas plant
- **Distilleries**
  - ◆ Biogas plant and spent wash

### 4.0 Mode of action :

Bacteria in FERMSEPT® – SG produces various enzymes capable of breaking down complex compounds to simpler ones, hence degrades the organic waste more rapidly and efficiently. By this virtue, it helps to improve the MLSS faster in aeration tank and makes the entire system more efficient in ETP.

- Fats to glycerol and fatty acids
- Proteins to aminoacids
- Cellulose to sugars
- Starch to glucose

### 5.0 Product Specifications :

Color	Tan to off white
Nature	Fluffy dry powder, added in luke warm water for activation
Odor	Odorless
Dispersibility in water	High
Active ingredients	Mixture of selective Bacillus strains producing various enzymes like lipase, protease, amylase, cellulase
Strain specialty	Non-GMO organism with inducible enzyme system

### 6.0 Advantages :

- To reduce parameter like BOD, COD, TSS within PCB norms
- Increases the efficiency of UASB/Anaerobic lagoon
- To optimize the power cost in the aeration tank
- Clean environment with natural and eco-friendly technologies
- Increase in MLSS drastically even with limited organic substrates
- Has a great capability to withstand any type of shock loads
- Efficient and fast decomposition of the organic material (e.g fatty acids, animal and vegetable fats, grease, proteins and carbohydrates)
- To comply treated water to water discharge standards for irrigation
- To optimize and utilize total capacity of the ETP
- Short time duration for commissioning ETP

### 7.0 Application point :

- In UASB/Anaerobic lagoon
- In the aeration tank

### 8.0 Usage Procedure :

- Mix 1 kg of FERMSEPT<sup>®</sup> – SG in 4 litres of luke warm water/ETP treated water (1:4) and keep for 30 minutes
- Mix the suspension gently for proper mixing
- Dose the suspension at the appropriate application point

### 9.0 Safety :

This product is non-toxic, non-pathogenic non-hazardous, non-contagious, non-corrosive. Bacteria used are from WHO recommended natural strains for safety which are not genetically modified, hence poses no threat to environment. It creates no heat, no fumes, no boiling. It does not attack live tissue or any inorganic materials.

### 10.0 Storage and transport stability :

Product can be stored at room temperature under dry conditions. Product stability is for 18 months at the prescribed conditions from the date of production. The product is safe to transport by any means of surface transport and air transport.



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