



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® – S 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® – S is specifically formulated with extra efficiency for municipal waste water treatment plants and septic systems.

3.0 Application :

- Municipal waste water treatment plants
- Septic tanks
- Hotels, resorts, hospitals, township STP's
- UASB, Anaerobic lagoon

4.0 Mode of action :

Bacteria in FERMSEPT® – S 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, makes the process more stable and makes the entire system more efficient in STP/WWTP's.

FERMSEPT® – S breaks down and degrade organic & inorganic materials that cause unpleasant odors into odorless compounds.

- 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 :

- Reduction of BOD, COD, Oil & grease and TSS within PCB norms
- Increase in MLSS drastically
- Will increase the efficiency of the existing treatment plant
- Regular use ensures continuous process of digestion, which prevents the accumulation of sludge, grease and organic wastes
- Reduction in operational cost, as there is no requirement of cow dung, DAP, urea
- Has a great capability to withstand the shock loads
- Improves the efficiency of UASB and Anaerobic lagoon
- Reduction of power cost in the aeration tank
- Reduction of Odor
- Reduction of capital investment
- Treated water can be reused for irrigation purpose
- Treated water can be let out to water bodies like lakes and ponds
- Environment friendly

7.0 Application Point :

- In collection tank / equalisation tank
- In aeration tank
- In UASB/Anaerobic Lagoon

8.0 Usage Procedure :

- Mix 1 kg of FERMSEPT[®] – S in 4 litres of luke warm water/STP 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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