



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[®] – M 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 wastes. 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[®] – M is specifically formulated with extra efficiency for municipal solid waste composting.

3.0 Application :

- Municipal solid waste
- Solid waste from Hotels, Township etc.

4.0 Mode of action :

Bacteria in FERMSEPT[®] – M 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 bacterial colonization faster and makes the composting process more time and space efficient.

FERMSEPT[®] – M breaks down and degrades organic & inorganic materials that cause unpleasant odours into odourless 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	Free flowing, fluffy dry powder, preferably added in luke warm water for faster and better activation
Odor	Odorless
Dispersibility in water	High
pH	Neutral
Active ingredients	Mixture of selective bacterial strains producing various enzymes like Cellulase, Protease, Amylase, and Lipase
Strain specialty	Non-GMO organism with inducible enzyme system

6.0 Advantages :

- Controls & reduces obnoxious odor
- Improves composting process of organic wastes
- Increases the rate of degradation and decomposition
- Reduces the conversion time to manure
- Reduces volume of waste
- Reduces leachat problem
- Reduces number of turnings
- Breaks down & destroys petrifying organic material from the complex organic waste

7.0 Application point :

- Municipal solid waste dumping yards
- Municipal solid waste bio composting facility
- Garbage collection area
- Freshly collected garbage in the dump sites
- After the segregation of solid waste & before the processing of Vermicomposting

8.0 Usage procedure :

- Mix 1 kg of FERMSEPT[®] – M in 16 litres of luke warm water (1:16) and keep for 4-6 hours
- Mix the suspension gently for proper mixing
- Spray or Sprinkle the suspension at the appropriate application point followed by effective mixing and turning

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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