



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[®] – PM is the synergistic blend of naturally selected beneficial, harmless and robust bacteria, macro and micro nutrients, and biological additives with enhanced composting activity.

FERMSEPT[®] – PM is specifically formulated for distilleries with extra efficiency for composting process and utilizes more spent wash with enriched compost.

3.0 Application :

- For Press Mud & Spent Wash Composting

4.0 Mode of action :

Bacteria in FERMSEPT[®] – PM produces various enzyme capable of breaking down complex compound 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 with utilizing more quantity of spentwash.

- 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 :

- Accelerates composting process and reduces cycle time
- Enrich the compost with nutrient
- Improve the compost quality
- Pressmud : Spentwash ratio goes up to 1 : 2.5
- Controls & reduces obnoxious odor
- Reduces leachate problem
- Reduces number of turnings

7.0 Application point :

- On the pressmud composting bed/ windrows

8.0 Usage procedure :

- Mix 1 kg of FERMSEPT[®] – PM in 16 litres of spent wash (1:16) and keep for 4-6 hours
- Mix the suspension gently for proper mixing.
- Spray 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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