

MiCroBial Compost

Product Description

The core MiCroBial Compost is a natural biocatalyst made via novel fermentative process that has been continually refined by microbiologist in india. MiCroBial compost consists of selected consortium of bacteria, enzymes, nutrients that degrade organic matter as carbohydrate, proteins & fats. These microbes produces different types of enzymes as amylase, protease, cellulase etc. MiCroBial Compost works in aerobic and anaerobic conditions as it contains aerobic and facultative anaerobics.



Typical Application Area

- Aerated windrow & anaerobic composting process.
- Pile composting, In vessel composting & other composting technologies
- Working landfill, Solid waste, Waste pond, sludge Drying bed
- Drainage system, Nallah, Waste water canal, Oxidation pond
- Manure pond, Garbage transfer station & Restaurant kitchen

Physical Data

- **Colony Forming Units (CFU)** Min 10⁹ CFU/g
- **Product** Dormant/Viable microbial culture/Enzyme & nutrients
- **Product Form** Dry free flowing powder
- **Color & Odor** Off white powder with mild yeasty odor and is dried and packaged.
- **Optimum Ph range** Preferred range - 6 to 8

Benefits

- Control odor after application of MiCroBial Compost
- Reduction in volume of solid waste
- Fast acting
- Highly speed up composting process and reduce composting time
- Compost various type of organic waste
- Works in wide range of C:N ratio
- High concentration of consortia of specially cultivated thermophilic and mesophilic microbes
- Reduce hydrogen sulfide, ammonia and nitrates
- Reduce pathogen in compost
- 100 % organic and ecofriendly

Product concentration will be decided on the basis of volume of solid waste and type of composting system available for the treatment.

Once MiCroBial compost will be added into composting, there will be microbial shifting in system which will replace bad bacteria by good bacteria. Once MiCroBial microbes established themselves, they will start giving results.

It is recommended to add source of nitrogen and phosphorus into the system if these micronutrients are not in sufficient concentration as these play an important role in microbial metabolism.

Direction for Use -

Mixing of product - MiCroBial compost should be mixed with fresh water.

Rule of Thumb - 1 kg of product can be mixed into 100 - 200 liters of fresh water or 100 gm of bag mixed into 10 - 20 L plastic drum with fresh water.

For best results, it is recommended to pre hydrate product by adding fresh water and allows the solution to stand for 30 mins.

Application for Compost Enhancement -

- MiCroBial Compost can be applied to all composting process to accelerate degradation of organic matter.
- Apply 1 kg of MiCroBial compost for 10 - 25 tons of solid waste.
- Add 1 kg of product into 100 - 200 liters of fresh water and allows it to stand for 30 mins to get it dissolved.
- Then spray that activated solution on solid wastes in such a way that microbes and enzymes should get mixed with the solid waste properly.
- Application of MiCroBial Compost should not disturb moisture of compost or solid waste.
- Re apply MiCroBial Compost to composting process as per the requirement.

Storage

Product is delivered in sealed, moisture proof packaging. Product should be stored in a cool dry location, Out of direct sun light and protected from insects. Do not freeze.

Product Shelf life

1 year minimum under standard warehouse/office conditions.

For dosing concentration and application, please contact to our technical team.

Please refer to MiCroBial Technologies website for more information www.microbialtech.com