

Composting Manure Waste & Vegetation



Description

BioBug CM contains a specially formulated range of adapted high-performance microorganisms and micronutrients developed for use in the biological composting of animal wastes and vegetation. The biological action of BioBug CM works directly on odor causing compounds by initiating a process of hydrolysis and bio-oxidation. This reduces odors not only during storage, but after the manure has been spread on crop land.

The microbes present in BioBug CM cause nitrogen fixation creating a better fertilizer value. The nitrites and nitrates formed are a stable form of nitrogen readily available to crops. To ensure optimal performance of these organisms under the toughest conditions, they are blended together with "high potency" nutrients and stimulants.

When applied to composting processes it can help in soil productivity and degradation of organic matter, enhance cellulose degradation or breakdown of plant residue, significantly reducing odor problems, production of an excellent soil conditioner and organic fertilizer. The main function it serves in composting is to increase fertilizer value in compost that can be stored and applied at convenient times. The microorganism in BioBug CM increases the diversity and growth of soil microorganism which plays an important role in soil productivity and plant growth.

Benefits of BioBug CM:

- Enhance manure waste composting process
- Produce excellent soil conditioner & organic fertilizer
- Increase fertilizer value in final compost
- Increase diversity & growth of soil microorganism for soil productivity & plant growth
- Reduce formation of bad odor in compost

Bacterial Formulation **Plus** **Bio-Enhancer** **Plus** **Micronutrient**

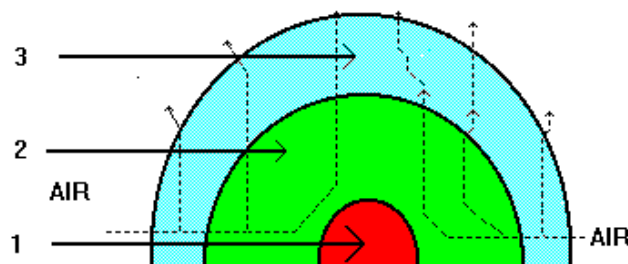
- *Speed up the process of composting*
- *Produce higher fertilizer value in final compost*

Bacteria Farming

When the microorganisms in BioBug CM are kept at their optimum environmental conditions: plenty to eat, good temperature, and lots and lots of fresh air, they will perform their natural work, making finished compost in record time without odors.

Windrow Dynamics

Windrow Dynamics is basically the natural or unassisted airflow and subsequent bacterial activity of an undisturbed windrow caused by the rising of heated air. The cross-sectional drawing illustrates the concept of Windrow Dynamics. Zone 1 is least active, Zone 3 is more active and Zone 2 is most active or ideal zone.



- *Produce excellent soil conditioner and organic fertilizer*
- *Increase soil microorganism for soil productivity and plant growth*



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Specifications

Form: Free-flowing granular powder
Color: Brown
Nutrient Content: Biological nutrients & stimulant
Plate Count: 5 billion per gram

Packaging

250 grams water soluble packages protected by a resealable overwrap. 10 kilos per plastic pail.

Storage

DO NOT FREEZE! Store in a cool dry location. Do not inhale dusts, avoid excessive skin contact. SEE M.S.D.S.

Application Instructions

Application rates and locations depend on manure compost system and current biological conditions. Add 2 kilos to every 50 tons of organic waste compost. Product can be spread or sprinkle over the organic pile, follow by wetting and mixing. Product can also be diluted with enough water and sprayed over the organic pile, follow by wetting and mixing. Dosage rate will vary with volume or weight of the organic piles and compost system variations. The rates above are for a typical, well maintained compost system.

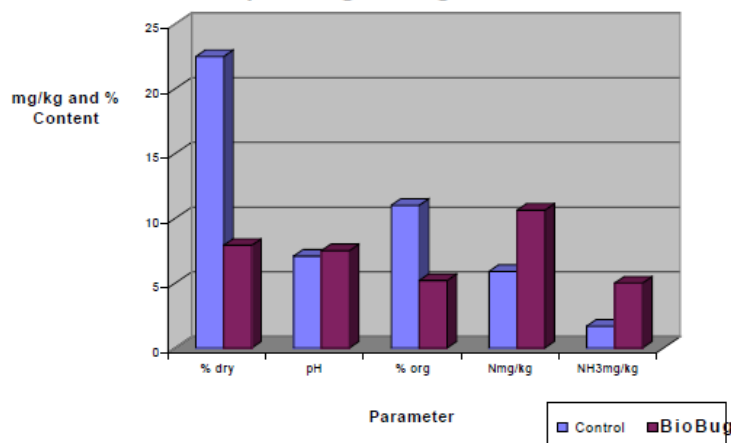


Use in accordance with all Federal and State regulations. Results will depend upon site and climate conditions. Avoid extreme pH and temperature conditions.

Case History 961

In 1996 a university study was conducted at a hog farm in Europe which housed 800 hogs and produced a waste volume of 600 m³. After a four weeks period, BIO-SYSTEMS product had successfully liquefied the 10 cm slurry to a far greater extent than the control. BIO-SYSTEMS product also decreased organic content and increased nitrogen content and ammonia, all making for a better fertilizer value.

Composting of Pig Manure



	Control	BioBug
% dry	22.5	7.93
pH	7.1	7.52
% org	11.03	5.22
N mg/kg	5.92	10.65
NH3 mg/kg	1.7	5.02



If you have any technical questions, call your local representative to speak with a certified BIO-SYSTEMS Bug Doctor!

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