

Composting Organic Waste & Vegetation



Description

BioBug CP contains a specially formulated range of adapted high-performance microorganisms developed for use in composting food waste, FOG sludge, protein and starchy waste and numerous organic plant or vegetation. When used as directed, BioBug CP is safe, harmless to people, clothing and the environment and is completely biodegradable.

The range of microorganisms contained in BioBug CP consists of aerobic and facultative anaerobic bacteria. Selected from their natural environment, these bacteria have been adapted to give optimum performance in degrading lignin, tannins, wood fibers, cellulose, tall oils, pine soaps, starches, proteins, oil, grease and fats. To ensure optimal performance of these organisms under the toughest conditions, they are blended with "high potency" nutrients and stimulants. In addition to the bacteria, a number of free enzymes such as a complex of cellulases, hemicellulases, amylases and lipases are present within the product.

When applied to composting processes it can help in soil productivity and degradation of organic matter, enhance cellulose degradation or break down of plant residue, significantly reducing odor problems to produce 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 CP increases the diversity and growth of soil microorganism which plays an important role in soil productivity and plant growth.

Benefits of BioBug CP:

- Enhance organic 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

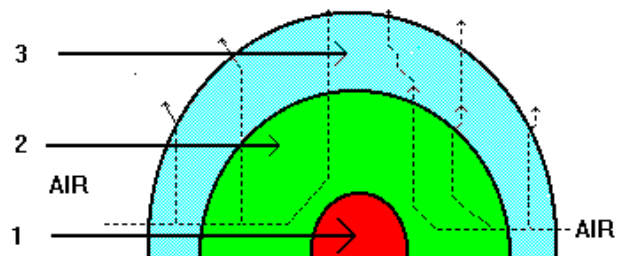
- **Speed up the process of composting**
- **Produce higher fertilizer value in final compost**

Bacteria Farming

When the microorganisms in BioBug CP 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**



1-800-232-BUGS
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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 organic 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 804

Palm Oil Mill in Sarawak uses empty fruit brunch with effluent sludge mix to produce organic fertilizer compost. Windrow composting was carried out to produce organic fertilizer that can be used in their plantation. However, they were experiencing a low composting rate and could not cope with the fast accumulation of waste from their mills. Once BIO-SYSTEMS program was introduced, the compost maturation period was shortened by 25%. The compost process can run much faster and the fertilizer value in the final compost had also gone up. The compost plant performance had improved and was consistently stabilized.



Case History 805

The project initiated in G.H Plantation aimed at producing organic fertilizer from composting effluent sludge containing high level of oil and fats. The sources are plenty and free, and at the same time, saving money to purchase commercial fertilizer for their crops.

Your local Distributor is:

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