

Ecolly Bio Solutions MicrobialX Compost Product Overview

1. Challenge

In Rapid urbanization, large quantities of biodegradable organic waste from households, hotels, restaurants, markets, agriculture, and food processing units are disposed of without proper treatment. Improper waste management leads to slow decomposition, foul odours, greenhouse gas emissions, nutrient loss, and environmental pollution. Conventional composting methods often suffer from poor aeration, imbalanced carbon-to-nitrogen ratios, inconsistent microbial activity, and long composting periods, resulting in low-quality compost. The reference material emphasizes that effective aerobic decomposition, balanced nutrient management, and proper composting practices are essential for producing stable, nutrient-rich organic manure that improves soil health and supports sustainable waste management.

2. Product Overview

Microbial X – Compost is a bio-based microbial catalyst developed by Ecolly Bio Solutions to accelerate the aerobic decomposition of biodegradable waste. It contains a consortium of beneficial bacteria, fungi and actinomycetes that rapidly convert organic waste into nutrient-rich compost. Under recommended operating conditions the product significantly reduces foul odour within 3–4 days and can produce mature compost in approximately 21 days. It is intended for decentralized and industrial composting applications.

3. Objective

The product is designed to reduce landfill disposal, accelerate composting, improve compost quality, eliminate foul odours, reduce greenhouse gas emissions from unmanaged organic waste, and enable sustainable organic waste management for municipalities, institutions, industries and farms.

4. Key Benefits / Outcomes

- Odour reduction within 3–4 days
- Compost in about 21 days
- Lower landfill volume
- Reduced waste handling cost

- Improved pathogen reduction during thermophilic composting
- Nutrient-rich compost suitable for soil enrichment
- Eco-friendly, non-toxic and biodegradable solution.

5. Application areas

- Garbage dumping grounds
- Residential communities
- Dairy farms
- Food processing industries

6. How It Works

After application, beneficial microorganisms colonize the organic waste and digest carbohydrates, proteins and fibrous organic matter under aerobic conditions. Their activity generates heat, driving the compost through mesophilic, thermophilic and curing stages. Harmful odours are suppressed while organic matter is converted into stable humus.

7. Directions for Use

Typical dosage for 1 ton organic waste:

- 1 L Microbial X – Compost
- water
- jaggery

Spray uniformly over each layer, maintain 50–60% moisture and turn the pile every 5–7 days.

8. Available Quantities / Packaging

- 1 Ltr
- 5 Ltr
- 30 Ltr

9. Technical Specifications

Appearance: Light green liquid

Odour: Mild fermented

Shelf Life: 06 months

Storage: Cool and dry place below 35°C

Application: Spray

Solubility: Water soluble

10. Safety & Handling

Avoid contact with eyes. Wash hands after handling. Keep away from direct sunlight and freezing conditions. Store sealed in original container. Keep away from strong disinfectants.

11. Expected Results

Day 1–2: microbial activation;

Day 3–4: odour reduction;

Day 5–15: rapid decomposition and temperature rise;

Around Day 21: mature compost.

12. Before & After Examples

Before: foul smell, flies, raw waste. After: dark brown compost with earthy smell, reduced volume and stable organic manure.

13. Support & Contact Information

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