

## Commercial Composting for Dairy Manure

### BiOWiSH™ Manure and Odor (Beef & Dairy)

BiOWiSH™ Manure and Odor (Beef and Dairy) is a revolutionary product that breaks down organic waste and eliminates odor causing compounds at the source. It is highly effective in digesting waste products comprising fats, proteins, carbohydrates and cellulose, and is suitable for most manure treatment systems. BiOWiSH™ Manure and Odor (Beef and Dairy) is ideal for digesting sludge, managing nutrient loads and reducing odor from manure lagoons.



### Site Specific Data Collection

Collection of the following site-specific information will assist in developing the most appropriate application program for use of BiOWiSH™ at a commercial composting facility.

- Type of compost produced (substrate) and what volumes
- Mechanism of aeration e.g. Turned piles, aerated static piles, tunnel etc
- Size of windrows/piles
- Processing time
- Major issues e.g. Space, odor, pathogens etc

### About BiOWiSH™

The result of over 18 years of research and development, BiOWiSH™ technology provides a solution to some of the most complex problems of our time, from food production to environmental pollution.

BiOWiSH™ is a powerful blend of biocatalysts that breaks down complex organic molecules to help eliminate waste, reduce odors, improve soil fertility and enhance water quality, among other uses.

100% natural and non-toxic, BiOWiSH™ is safe for everyday use in a wide range of consumer and industrial products. It has been proven to solve problems in environmental management (including wastewater, solid waste, soil and water remediation and industrial emissions), as well as agriculture.

BiOWiSH™ products are used extensively and available in Asia, Australia, Europe, North America and Latin America.

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## Applications and Dosage

### Application Rate

- 1 kg per 50 tonne of organic material

### Pre-activation

Follow these basic directions for the proper pre-activation of each dose of BiOWiSH™ Manure and Odor Treatment (Beef and Dairy).

- Mix the prescribed amount of BiOWiSH™ in water.
- Leave the container uncovered and exposed to ambient air—or use a mechanical aerator.
- Keep the container in a warm place above 15°C.
- Let the mix activate for a minimum of 12 hours.

### Application Method

- Dilute 1 kg into 1,000 L of water.
- Activate as above.
- Spray through compost and mix well to achieve good dispersion. Application during shredding or establishment of windrow is ideal.
- Deposit treated compost to piles/windrows/tunnel as per normal practice.
- Turn throughout production cycle as per normal management practice.
- Re-apply every 4 weeks or as required.

#### Note:

- *The BiOWiSH™ carrier material may clog fine spray nozzles. This can be avoided by decanting the activated solution, using a filter bag of appropriate micron or using a larger nozzle.*
- *To reduce the risk of accidental pre-activation of the product always re-seal bags and avoid exposure to moisture.*

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## How will I know that BiOWiSH™ is working?

The collection of data is critical to tracking the progress of BiOWiSH in meeting key objectives. We recommend that before implementing a program of dosing, first establish a thorough baseline of data to measure against.

A representative sample of compost should be collected from each windrow at Day 0 and at the end of the trial to be analyzed for the following parameters (as appropriate).

- pH
- Organic Matter
- Total Nitrogen
- Moisture
- P2O5
- Potash (K2O)
- Each sample should be collected from multiple locations (at least nine) from each windrow.
- Combine the nine samples into a bucket, mix thoroughly and sub sample into a zip-lock plastic bag for shipping to a reputable laboratory.
- Sample all windrows at approximately the same time on the same day.

## Contact Us

For further advice and assistance please contact:

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