

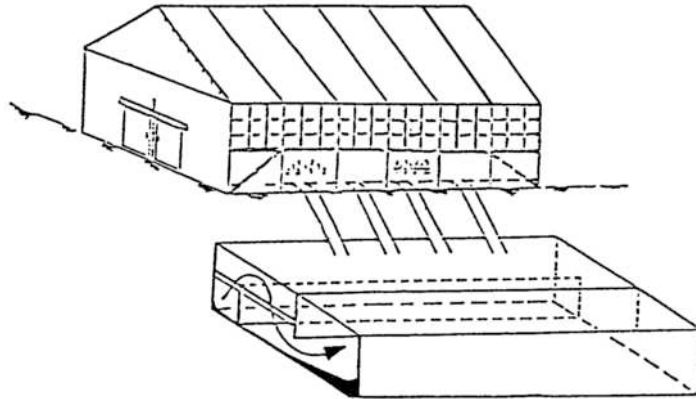
# Zebec Biologicals

## Z-BIO AMD100

Poultry, Cattle & Pig

Manure Treatment

**Z-BIO AMD100** is a powdered blend of selectively adapted organisms blended with enzymes and emulsifiers specifically designed to liquefy, digest and deodorize agricultural wastes.



### Applications

Odor control for confinement areas for swine, cattle and poultry; barns; holding tanks; manure pits; drainage systems and waste lagoons.

### Features of Z-BIO AMD100

- Introduces massive numbers of Harmless Bacteria Adept at the Degradation of Organic Waste
- Ammonia is Principle Source of Nitrogen, which is converted to Insoluble Organic Form
- Dramatically Reduces Ammonia Levels in both Straw & Slurry Systems
- Kills Odour by means of Special Bacteria for the Degradation of Malodorous Organic Compounds
- Digests Cellulosic Fibers, Proteins, Fats, and residual carbohydrates in Animal Wastes.
- Improves consistency of waste for pumping.

### Benefits of Improved Manure Processing

- Bedding is Drier & Warmer
- Less Bedding is Required
- Lower Ammonia Levels Reduce Incidence of Lung Problems in Pigs
- Prevents Clogging and Crusting In Slurry Systems
- Fly Larvae Killed, Fly Populations Reduced
- Unleachable Source of Nitrates & other Minerals in Muck for Spreading
- Increase in Biomass, Rich in Fulvic & Humic Acid
- Reduction in Atmospheric Pollution by Ammonia from Manure
- Maximizes Fertilizer Value of Animal Manure.

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### **Confinement areas:**

- Dissolve 1 kg of product in 40 litres of water for approximately 30 minutes.
- Spray all areas of waste accumulation through a suitable, clean agricultural sprayer.
- Apply weekly. When washed down, these areas will then seed pits.
- Specific application rate may be varied depending on amount of waste and tolerable odor level; however, entire confinement area should be sprayed with each application.

### **Lagoons:**

- Dosage rate is dependent on size of lagoon.
- Initial seeding dosage is 1 kg of **Z-BIO AMD100** for every 24,000 litres of waste applied weekly for one month.
- Reduce to 500g per 24,000 litres of waste per week thereafter.
- Application should be made through a spray system, slurring each 1kg of product in 40 litres of water and soaking 30 minutes before spraying.

### **Waste Pits:**

- Bacterial action breaks up gelatinous or solid matrix in waste pits.
- Dissolve 1 kg of product in 40 litres of water and spray through a suitable, clean agricultural sprayer.
- Cultures must be sprayed evenly over the entire surface to be effective in liquefying surface scum.
- Initial dosage of 1 kg of **Z-BIO AMD100** for every 24,000 litres of waste should be applied weekly until improvement in odor and consistency is determined (2-3 weeks).
- Dosage may then be reduced to 500 g per 12,000 litres dosed on a monthly basis. Dosage rate may be varied for specific applications.

### **Product Characteristics**

- Bacteria Count 3 Billion/gram
- Appearance Free-flowing, tan color powder
- Fragrance Yeast-like

### **Performance Characteristics**

- pH Optimum Neutral
- Effective pH range 6.0 - 8.5
- Temperature range 55° - 100°F (13° - 38°C)
- Moisture content 15%
- Bulk density 0.5 - 0.61 g/cm<sup>3</sup>

### **Optimum Conditions for Use**

Bacteria in **Z-BIO AMD100** perform within a pH range of 6.0 to 8.5 with the optimum near pH 7.0. Temperature affects the activity of the working solution, and action increases with rising temperatures up to 105°F (41°C). No activity can be expected below 40°F (5°C).

### **Available Packaging**

- 25 kg Container

### **Storage and Handling:**

- Store in a cool dark place
- Avoid eye contact
- Do not ingest
- Wash hands thoroughly with warm soapy water after handling