

Feedlot Cattle composting Odor

Introduction

A feedlot design (slope, length, mound, feed bunk and watering systems) that facilitates separation of liquid (rain, snowmelt and process water) from manure and other organic material such as waste feed through good drainage of corrals results in reduced odor generation.

More odor is generated from wet and warm corral surfaces due to greater microbial activity at higher temperatures. As a result, in warm conditions, the strongest odor will occur two to three days after the surface becomes wet and anaerobic conditions persist. Odor emissions will continue until the corral surface dries out or a thick crust of manure forms. Therefore, rapid drying of the corral surface is a key management strategy to minimize odor from feedlots.

Poorly drained pens with standing water remaining for several days after rainfall events will result in greater odor levels .



SOLUTION

Valens product 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.

Valens product is ideal for digesting sludge, managing nutrient loads and reducing odor from manure lagoons.

Key Benefits

- Accelerates the decomposition of organic waste (sludge)
- Reduces the need for pump outs
- Removes rather than masks odors
- Reduces Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) by up to 80%
- Reduces Total Nitrogen, Potassium and Phosphorus by up to 40%
- Reduces fly numbers by removing organic attractants
- Improves quality and health of bedding
- Improves nutrient availability if effluent is used to irrigate pasture

Feedlot Composting

Application Rate

- 1 kg per 30 tonne of organic material

Pre-activation

For pre-activation, **Valens product** should be mixed into solution with water at a concentration between 2,000 and 10,000 milligrams of **Valens product** per liter of water (parts per million). The ideal concentration is approximately 5,000 mg/L (ppm). Because **Valens product** is packaged with its own nutrient source, it is important to use a relatively nutrient-free source of water or pre-activation mixing

Mix the prescribed amount of **Valens product** 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 6 hours.

Application Method

- Dilute 1 kg into 1,000 L of water.
- Spray through compost and mix well to achieve good dispersion. Application during shredding or establishment of windrow is ideal.

Contact

VALENS

Building No32-El Oboor Building -Salah Salem Street-Nasr City-Cairo

Post Office No. 34- 44, Dubai City - Bur Dubai - Al Fahidi

Phone No: 0583037024

mobile no :971527107797

E-Mail: info@uvalens.com



www.uvalens.com