



**ManureMax™** is easily applied to both waste lagoons and animal waste collection areas. **ManureMax™** is a safe product for all soils, plants and animals.

**ManureMax™**, Provides an eco-friendly solution for treating manure and livestock waste by decreasing volatile ammonias, reducing odors and enhancing manure characteristics.



## ManureMax™

ManureMax™ is an economical solution for treating livestock waste. ManureMax™ decreases livestock waste odors, breaks down and reduces manure solids and decreases volatiles in the manure.

ManureMax™ is a biological activator derived from humates. We recommend applying the product directly on and in livestock waste lagoons and manure collection areas.

ManureMax™ is a natural form of humic acids which, when applied to manure enhances microbial activity, decreases volatile ammonia and other gas emissions, reduces odor, improves the carbon to nitrogen ratios in the waste and enhances the quality of the manure.

### Advantages:

- A. Decreases Volatile Ammonias
- B. Reduces Odors
- C. Improves Carbon to Nitrogen Ratio in the Waste
- D. Breaks Down Salts in Urine

## Usage Instructions and Benefits

ManureMax™ is an outstanding product for today's livestock industries. ManureMax™ is a sensible solution for odor management and immediately enhances the environmental conditions affected by manure lagoons and collection areas. For years the agricultural industry has wrestled with environmental issues caused by livestock waste. Odor management and manure management has become a critical issue for today's livestock industry. The sustainability, productivity and profitability of a producer can depend on the extent to which livestock waste can be managed and controlled.

Malodorous components of waste can be divided into four primary classes: volatile fatty acids, indoles and phenols, ammonia and volatile amines and volatile sulfur compounds. Each of these components is primarily formed through the fermentative bacteria that degrade the complex organics in the waste. These compounds accumulate in storage facilities, where mixtures of feces and urine decompose under prevailing anaerobic conditions.

## Usage and Doses

ManureMax™ is 100% soluble in water. We suggest adding it directly to your manure lagoons and waste storage facilities. The malodorous components are readily biodegraded by ManureMax™. In swine lagoons we recommend an initial direct application of 5 gallons for each 1,000 square feet of surface area. In some cases, it is recommended to re-apply the initial application quantity of ManureMax™ after 30 days to insure optimum results for odor reduction and manure stabilization.

## Use Warnings and Precautions

This product should not be ingested and any contact with the eyes should be avoided. In case of contact with the eyes wash liberally with water. Use of industrial goggles is suggested. ManureMax™ does not cause skin irritation.

## Independent Research Determination

### Pennsylvania State University:

- Decrease in Odor by 43%
- Decrease in Solids by 15.9%
- Decrease in VOC's by 40.9%
- Decrease in C:N Ratio by 93.2%

### North Carolina State University:

- Methane Reduced by 34%
- Reductions in benzene, acetic acid, butanoic acid, propanoic acid and toluene (aids in odor reduction)
- Reductions in Volatile Fatty Acids (VFA's)

## What Our Customers Have to Say

"ManureMax™ reduced the odor, NO doubt. In the lagoon we witnessed serious bubbling and activity happening. Without a doubt ManureMax™ helped liquefy the manure and seriously cut the odor." - Rory D. New Braunfels, Texas

"The odor reduction has been incredible. I could not believe the immediate decrease in smell and improvement to the overall quality and consistency of the waste lagoon." - Carl K. Texas

## Safety

ManureMax™ is a safe product for all soils, plants and animals. ManureMax™ is an organic product that is natural to the food chain and plays an effective role in the environmental and safety concerns faced by today's agricultural industry.

## Transport and Storage Guidelines

Do not transport or store the product next to human food products. Keep in a dry place in temperatures not higher than 100 degrees Fahrenheit.







**The safe choice for treating manure and animal waste for all soils, plants and animals.**

**About ManureMax™**

ManureMax™ is an economical solution for treating livestock waste. ManureMax™ decreases livestock waste odors, breaks down and reduces manure solids and decreases volatiles in the manure.

ManureMax™ is a biological activator derived from humates. We recommend applying the product directly on and in livestock waste lagoons and manure collection areas.

ManureMax™ is a natural form of humic acids which, when applied to manure enhances microbial activity, decreases volatile ammonia and other gas emissions, reduces odor, improves the carbon to nitrogen ratios in the waste and enhances the quality of the manure.

**Advantages of ManureMax™**

- Decreases Volatile Ammonias
- Reduces Odors
- Improves Carbon to Nitrogen Ratio in the Waste
- Breaks Down Salts in Urine

**ManureMax™ is a Safe Product**

ManureMax™ is a safe product for all soils, plants and animals. ManureMax™ is an organic product that is natural to the food chain and plays an active role in the environmental today's agricultural industry.

**Usage Instructions and Benefits**

ManureMax™ is 100% soluble in water. We suggest adding it directly to your manure lagoons and waste storage facilities. The malodorous components are readily biodegraded by ManureMax™. In swine lagoons we recommend an initial direct application of 5 gallons for each 1,000 square feet of surface area. In some cases, it is recommended to re-apply the initial application quantity of ManureMax™ after 30 days to insure optimum results for odor reduction and manure stabilization.

**Use Warnings and Precautions**

This product should not be ingested and any contact with the eyes should be avoided. In case of contact with the eyes wash liberally with water. Use of industrial goggles is suggested. ManureMax™ does not cause skin irritation.

**Transport and Storage Guidelines**

Do not transport or store the product next to human food products. Keep in a dry place in temperatures not higher than 100 degrees Fahrenheit.

**Independent Research Determinations**



**Pennsylvania State University**

- Decreased Odor Emissions
- 43% odor reduction after 3 days
- 88% odor reduction after 30 days

**North Carolina State University**

- Methane reduced by 34%
- Reductions in benzene, acetic acid, butanoic acid, propanoic acid and toluene (aids in odor reduction)
- Reductions in Volatile Fatty Acids (VFAs)



**ManureMax™ in Action**

**Lagoon before treatment**



**After treatment with ManureMax™**



**ManureMax™ is easy to apply**



**Begins to work immediately**



**What our Customers Have to Say**

**ManureMax™** NO doubt. In the lagoon we witnessed serious bubbling and activity happening. Without a doubt ManureMax™ helped liquefy the manure and seriously cut the odor.”

- Rory D. New Braunfels, Texas

“The odor reduction has been incredible. I could not believe the immediate decrease in smell and improvement to the overall quality and consistency of the waste lagoon.”

- Carl K. Texas