

Emerald Earth

Nature Does It Best

Authorized EM Retailer

Hog Farm Applications of EM

The best way to prevent odor from being produced is to prevent the putrefaction breakdown of organic matter. Odor problems are especially problematic for hog farm operations. Manure management programs utilized today are either dry or wet. Dry management programs produce fewer odors than the wet ones. The manure wastes in a dry operation are scraped and piled for composting or for field applications. Wet management programs use water to flush manure out of the barn areas into a large biowaste lagoon. These wet operations often use the lagoon water to flush with – which provides a perfect breeding ground for the growth of hazardous algae. Both disposal operations develop odor and fly problems. EM_1[®] Microbial Inoculant encourages the growth of beneficial microorganisms, which act to stop the putrefaction process – thereby stopping the production of odor and the attraction of flies.

The guidelines outlined below will help to eliminate these problems, as well as improve the overall health conditions of the hog farm. Aerial spraying of Activated EM (AEM) will eliminate odor almost instantly. Refer to our website on how to activate EM_1[®]. The rates that AEM is applied will determine how long the effects will last. If odors haven't been eliminated at first, reapply the AEM at a greater rate and/or more often to establish the predominance of the beneficial microbial populations.

Methods of Application for Barn Stalls

1. Applications rates will be strong (1:100 or higher, if the area is very moist). Try to spray Activated EM on all surfaces (floors, walls, and ceiling).
2. Applications should be done at least 3 times per week. The bedding area and all manure should be sprayed. As a general rule, apply about one quart of AEM diluted at a ratio of 1:50 per square yard of the barn.
3. If misting/fogging systems are in place, inject AEM at a rate of 1:1000 on a continuous basis.

Methods for Lagoons

Application ratios to biowaste lagoons are 1:10,000 once per month. If treating primarily the lagoon, then two to three initial shock treatments should be made at a ratio of 1:1,000 every two weeks. After favorable results are met, then monthly application ratios of 1:10,000 can be established.

Methods for Application Rates Directly on Manure

1. Inoculate fresh manure with a diluted solution of 1 part AEM to 50 parts water at the volume of 5 gallons diluted solution per ton.
2. Cover piles with tarps, or make large mounds that will go anaerobic in the center, and let sit for a minimum of two weeks. After fermentation is established (evidenced by no ammonia smell and the occurrence white molds), then turn the piles once a week for 4 weeks. Let it stabilize static for 4 weeks thereafter.
3. Spread the manure on the fields or sell it as compost.

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