Microbe-Lift/AOE-P
ODOR ELIMINATOR
Specially formulated for Poultry Production Facilities
MICROBE-LIFT/AOE-P utilizes biotechnology to maintain a cleaner, healthier environment for poultry houses and yards. Poultry manure is very high in nitrogen content, a factor which leads to the emission of high concentrations of ammonia when litter becomes increasingly fouled. As a result, toxic concentrations of ammonia can build up in poultry houses. Typically, ventilation is utilized to remove ammonia requiring additional heat to replace heat loss. MICROBE-LIFT/AOE-P acts to reduce the generation of ammonia from poultry litter improving bird health and reducing costs. MICROBE-LIFT/AOE-P incorporates the action of stable, highly active microbial cultures specifically selected and adapted for rapid uptake of ammonia ions with non-toxic ingredients that capture typical poultry odors such as ammonia, amines, hydrogen sulfide, and mercaptans. A unique biological metabolic enhancer and nutrients are added to increase the rate of activity for both naturally occurring and selectively adapted microbes to biologically degrade the manure. The novel combination of mercaptans utilized in MICROBE-LIFT/AOE-P represents a unique and very effective technology for reduction of ammonia in poultry containment areas.

Specific Benefits:
- Reduces atmospheric ammonia concentration and associated toxicity by reducing ammonia gas generation from manure in litter.
- Improves health and increases poultry production rate.
- Provides utility cost savings.
- Reduces odors.
- Accelerates degradation of litter wastes.
- Increases the nutrient value of the litter for composting.
- Effective on all types of poultry waste (turkey, chicken, duck, etc.).
- Reduction of ammonia emissions from chicken manure by MICROBE-LIFT/AOE-P.

PRODUCT CHARACTERISTICS:
Bacterial Pathways: Aerobic, facultative & anaerobic
Effective pH Range: 8.5-14.5 F.
Specific Gravity: 0.95-1.1
APPLICATION AND DOSAGE: Convenient to apply. Simply dilute and spray directly on litter. Dilute from 1:10 to 1:100 based on concentration of waste on litter.
STORAGE AND HANDLING: Store in a cool dry place.

Microbe-Lift/AOE
ODOR ELIMINATOR
Specially formulated for cattle, poultry and hog BARNS, WALLS, PENS, AND FLOORS
MICROBE-LIFT/AOE is an innovative patent pending advancement in odor control technology. MICROBE-LIFT/AOE provides deep and effective cleaning, unique to microbial activity. In addition, the fast-acting proprietary natural ingredients neutralize odor causing chemicals, such as amines, ammonia, mercaptans, and hydrogen sulfide. After neutralization, these compounds are subsequently biodegraded by the selectively-adapted strains incorporated in MICROBE-LIFT/AOE. This product is effective against a variety of nitrogen and/or sulfur-containing compounds, classically associated with waste-odor problems including amines, ammonia, mercaptans, and hydrogen sulfide. The accelerated biodegradation of odorous organic compounds is enhanced by the selectively adapted strains found in MICROBE-LIFT/AOE, and is assisted by specially formulated microbial growth stimulating ingredients. MICROBE-LIFT/AOE dramatically reduces odors by attacking and degrading the organic source of the odor.

Specific Benefits:
- Rapidly neutralizes and eliminates odors without relying on the use of masking agents or hazardous chemical oxidizers.
- Selectively adapted bacteria reduces or eliminates odor by degrading volatile amines and mercaptans at accelerated rates.
- A proprietary biological stimulant enhances the activity of the bacteria, as well as indigenous strains, resulting in higher rates of degradation.
- Long shelf-life.
- Rapid and long-term effects.

APPLICATION: Dilute two gallons of MICROBE-LIFT/AOE into a 55 gallon drum and spray entire animal containment area including walls, floors, and ceiling areas. Allow area to dry naturally as this product will be most effective in a moist environment. To maintain an acceptable odor level on a continuous basis, repeat application every one to three weeks after the initial application, depending on air circulation, weight and concentration of animals and the general means of waste disposal.

BENEFIT: This product will provide odor control alleviating animal discomfort from high ammonia levels that can result in biting of ears and tails. In many cases animals increase weight gain. The microorganisms present in the product germinate and colonize surfaces to become established. Organisms growing on surfaces will partially slough off and seed the lines in the waste collection system. Thereby they will assist in degradation of waste organics on surfaces maintaining cleanliness in collection lines, maintaining a free-flowing system, and in lagoons assisting in waste treatment.

CONTACT YOUR DISTRIBUTOR FOR MORE INFORMATION OR PRICING DISTRIBUTED BY:

ECOLOGICAL LABORATORIES, INC.
TOLL FREE: 1-800-645-2976
VISIT OUR WEB SITE: www.microbelift.com
Microbe-Lift is environmentally friendly agricultural products proven effective for over 20 years.

Microbe-Lift/HOG ODOR AND SOLIDS REDUCER Specifically formulated for MANURE PITS over slatted floors, outdoor manure lagoons and vertical holding tanks. Using natural biological activity, Microbe-Lift 100% natural and beneficial bacteria will breakdown organic buildups and convert them into a liquid slurry. This results in easier pump-outs.

Specific Benefits:
- Easy to apply
- Environmentally friendly
- Nontoxic, noncorrosive
- Lowers free ammonia levels
- Reduces solids and increases capacity
- Reduces or eliminates surface crust
- Breaks down grime from milk as well as fats
- Lowers nosious odors
- Safe for all livestock
- Can be used in lagoons, pits, and waste holding tanks
- Reduces nitrates in a purgable run
- Promotes a cleaner and healthier environment and can actually lower death rates.
- Increases fertilizer value or competing agents: e.g. H2O2 or KMnO4 which reduces fertilizer value.
- Lowers odors in outdoor lagoons in the summer and when pumping.
- Increases fertilizer value or competing agents: e.g. H2O2 or KMnO4 which reduces fertilizer value.
- Lowers odors in outdoor lagoons in the summer and when pumping.

APPLICATION RATES

<table>
<thead>
<tr>
<th>SIZE OF PIT/LAGOON (gallons)</th>
<th>MICROBE-LIFT/HOG</th>
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Application rates are based on 100% manure solids. Note: Application rates are based on 100% manure solids.

Microbe-Lift/DFP ODOR AND SOLIDS REDUCER Specifically formulated for MANURE PITS for dairy farms and dairy processors. Using natural biological activity, these 100% natural and beneficial bacteria will break down organic buildups and convert them into a liquid slurry. This results in easier pump-outs.

Specific Benefits:
- Easy to apply
- Environmentally friendly
- Nontoxic, noncorrosive
- Lowers free ammonia levels
- Reduces solids and increases capacity
- Reduces or eliminates surface crust
- Breaks down grime from milk as well as fats
- Lowers nosious odors
- Safe for all livestock
- Can be used in lagoons, pits, and waste holding tanks
- Reduces nitrates in a purgable run
- Promotes a cleaner and healthier environment and can actually lower death rates.
- Increases fertilizer value or competing agents: e.g. H2O2 or KMnO4 which reduces fertilizer value.
- Lowers odors in outdoor lagoons in the summer and when pumping.
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Microbe-Lift/ACOD-CHL ODOR REDUCTION AND SOLIDS REDUCER Specifically formulated for MANURE PITS in yards and feedlots.

Specific Benefits:
- Reduces the release of noxious gases from solid manure piles.
- Reduces or eliminates odor complaints from neighbors.
- Provides the perception of a cleaner, more sanitary environment for visitors, inspectors, and workers.
- Provides a healthier and more pleasant environment for livestock and workers.

APPLICATION AND DOSAGE: Convenient to apply. Simply dilute and spay directly on solid manure.

Dilute from 1:10 to 1:100 based on concentration of odor and requirement for odor control.

PRODUCT CHARACTERISTICS:
- Promotes a cleaner and healthier environment and can actually lower death rates.
- Increases fertilizer value or competing agents: e.g. H2O2 or KMnO4 which reduces fertilizer value.
- Lowers odors in outdoor lagoons in the summer and when pumping.

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