Bioscience, Inc.
Environmental Products and Services
ISO 9001:2008 Certified

MICROCAT®-ANL

ODOR CONTROL BIOFORMULA FOR SLUDGE, COMPOST AND WASTEWATER

DESCRIPTION:

MICROCAT-ANL is a liquid blend of preselected, adapted microorganisms for use under microaerophilic, anoxic or anaerobic conditions. It is formulated for use in sludge, compost, contaminated soils and wastewaters to suppress hydrogen sulfide odors and enhance biodegradation and contaminant removal where oxygen is of limited availability.

APPLICATIONS:

ODOR CONTROL

Anaerobic microbial metabolism frequently results in odors caused by sulfur-bearing compounds. Such odors arise in sludge handling, composting and in wastewater treatment. **MICROCAT-ANL** can help. Its specialized microbes reduce sulfides under anaerobic or anoxic conditions to elemental sulfur, which is occluded by the cells thus suppressing odors. **MICROCAT-ANL** is particularly well suited to applications in sewer lines, primary treatment systems, sludge processing and handling systems, and anaerobic or facultative lagoons. Such systems are commonly found in dairy, meatpacking, food processing and municipal sewage transport and waste treatment.

BIODEGRADATION

The release of waste materials into the environment creates odor and contamination problems. While biological remediation of contamination typically involves aerobic biodegradation, in many cases aeration is non-existent or difficult to achieve. **MICROCAT-ANL** supplies an inoculum of preselected organisms for improving biodegradation under such conditions. The conveyance of wastewaters in sewer lines and subsequent treatment in primary treatment operations or anaerobic lagoons is frequently accompanied by separation or deposition of insoluble solids, especially oil and grease. These problems are reduced or overcome by the regular use of **MICROCAT-ANL**.

■ PRODUCT CHARACTERISTICS:

Appearance	Reddish brown, translucent, non-viscous liquid
Contents	Specialized, preselected, phototrophic, facultative anaerobes
Shelf Life	1.5 years when stored properly; Use activator
Packaging	Five / Fifty-five gallon (18.9 / 208.2 L) shielded plastic drums

■ APPLICATION PROGRAMS:

In general, **MICROCAT-ANL** is applied (or metered) to the soil, sewer line, primary treatment unit or anaerobic lagoon on a preventive maintenance basis. For wastewaters, preventive maintenance application rates range from about 1 gallon (3.785 liter) per MGD (3785 m^3/day) per day to 30 gallons (11.36 liter) per MGD (3785 m^3/day) per day, depending on the waste type and conditions of treatment. Your Bioscience, Inc. Technical Representative will provide you with a custom-tailored application program to fit your specific needs.

■ OPTIMAL APPLICATION CONDITIONS

For best results, apply this product under the following conditions:

CONDITION	RANGE	OPTIMUM
Dissolved Oxygen, ppm	0 – 0.5	0.5
pH	6 - 9	7
Temperature, ^{o} C	10 - 40	35
Toxic Heavy Metals, ppm	Trace	None

If your system is operating outside these ranges, contact your Bioscience, Inc. Technical Representative for a complete system survey and recommendations.

■ STORAGE AND HANDLING

Storage	55^{o} - 120^{o} F (13^{o} - 49^{o} C). Store indoors at room temperature. DO NOT FREEZE. DO NOT STORE IN DIRECT SUNLIGHT.
Handling	**CAUTION** If accidental skin contact occurs wash affected area with soap and water. Do not ingest. Non-toxic, non-pathogenic, harmless to aquatic life.

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