



Bioscience, Inc.

Environmental Products & Services

ISO 9001:2015 Certified

MICROCAT®-ANSRL

**ODOR CONTROL /SLUDGE REDUCTION BIOFORMULA
FOR SLUDGE PROCESSING AND DEWATERING**



Description

MICROCAT-ANSRL is a liquid blend of preselected, adapted microorganisms for use under microaerophilic, anoxic or anaerobic conditions. It is formulated for use in sludge drying beds and compost piles to suppress hydrogen sulfide odors and enhance biosolids 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 and drying, composting and in wastewater treatment. **MICROCAT-ANSRL** can help. Its specialized microbes can convert sulfides under anaerobic or anoxic conditions to elemental sulfur, which is occluded by the cells thus suppressing odors. **MICROCAT-ANSRL** is particularly well suited to applications in sludge processing, handling and drying systems. Such systems are commonly found in wastewater processing facilities particularly activated sludge and related biosystems.

BIODEGRADATION

The release of waste biosolids into the environment creates odor and contamination problems. **MICROCAT-ANSRL** supplies an inoculum of preselected organisms for improving biodegradation of waste biosolids under non-ideal conditions. The biological treatment of wastewaters is always accompanied by the production of insoluble biosolids. The amount of these solids to be ultimately discarded can be reduced by the regular use of **MICROCAT-ANSRL** either in the system that produces them or in the downstream sludge processing, dewatering and drying systems.

Product Characteristics

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| Appearance | Light reddish brown, translucent, non-viscous liquid |
| Contents | Specialized, preselected, phototrophic and 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-ANSRL** is applied (or metered) into the sludge on a preventive maintenance basis. 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, ° 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

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|----------|--|
| Storage | 55° - 120° F (13° - 49° 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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