



Bioscience, Inc.  
Environmental Products & Services  
ISO 9001:2015 Certified

# MICROCAT®-STM

## General Purpose Microbial Product for Waste Treatment and Odor Control



### Description

**MICROCAT-STM** is a synergistic blend of preselected, adapted microorganisms and enzymes for use in wastewater systems, facultative lagoons and aerated ponds receiving agricultural, municipal, commercial, industrial and/or food processing wastes.

### Applications

Wastewater treatment systems receiving agricultural, municipal, commercial, industrial and/or food processing wastes from time-to-time encounter difficulties in achieving desired effluent quality. Variable operating conditions may cause continuing system malfunction and odor requiring major capital and operating expenses. **MICROCAT-STM** is formulated with natural enzymes, surfactants and microbes for enhancement of plant operations with reduced odor. **MICROCAT-STM** contains a combination of enzymes and aerobic and facultative anaerobic microorganisms selected from nature for their ability to break down a broad range of substances encountered in domestic, farming and industrial wastes. These include ligno-cellulosics, greases, fats, proteins, fibrous solids and other wastes.

## Product Characteristics

Appearance	Off white powder
Contents	Preselected, adapted microorganisms and ancillary enzymes
Nominal Microbe Count	Formulated to contain $>1 \times 10^9$ /gram
Shelf Life	Two Years
Packaging	25 Lb (11.3 Kg) plastic pails/ 220 Lb (100 Kg) fiber drums

## Application Programs

In general, **MICROCAT-STM** is applied directly to the lagoon or pond on a regular, preventive maintenance basis. Application programs range from about 25 pounds (11.4 Kg) per MGD (3785 m<sup>3</sup>/day) per day for upset recovery to one pound (0.45 Kg) per MGD (3785 m<sup>3</sup>/day) per day for maintenance. Your Bioscience, Inc. Technical Representative will provide you with a custom-tailored application program to fit the specific needs of your treatment system.

## Optimal Application Conditions

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

CONDITION	RANGE	OPTIMUM
Dissolved Oxygen, ppm	0-1.0	>0.5
pH	6 - 9	7
Temperature, ° C	10 - 40	35
Toxic Heavy Metals, ppm	Trace	None
Nutrients:		
BOD: NH <sub>3</sub> -N	10:1 - 10:0.5	10:1
BOD: PO <sub>4</sub> -P	100:1 - 100:0.5	100:1

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	45° - 105° F (7° - 40° C) Dry conditions; DO NOT FREEZE.
Handling	CAUTION Avoid inhalation of dry powder or liquid mist. Avoid exposing skin to dry powder or strong solution as irritation may result. If material contacts skin or eyes, flush thoroughly and repeatedly with water.

**MICROCAT®** is a registered trademark of Bioscience, Inc.

The information contained in this data sheet is a guide to the use of MICROCAT products and is based on test and information believed to be reliable. Product content and specifications are subject to change without notice. All information is given to and accepted by user at user's risk and confirmation of its validity and suitability to particular cases should be obtained independently. Bioscience, Inc. makes no guarantee of results and assumes no obligation or liability in connection with the information contained herein. Bioscience, Inc. does not warrant against infringement of, and this data sheet is not to be construed as a license to operate under, any patents.