



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

## MICROCAT<sup>®</sup>-HT

### High Temperature Bioformula for Wastewater Treatment Plants



#### Description

**MICROCAT-HT** is a synergistic blend of preselected, adapted microorganisms for use in biological wastewater treatment plants operating in the thermophilic transition zone (35°C - 43°C).

#### Applications

Biological wastewater treating plants receiving hot wastewater in warm climates from time-to-time encounter difficulties in achieving desired effluent quality. High temperature operating conditions can cause continuing poor system performance (high effluent suspended solids, poor settling due to population shifts) requiring major capital and/or operating expenses. **MICROCAT-HT** combines preselected, adapted microbial strains with enhanced waste degradation capability in the thermophilic transition range (35°C - 43°C). When used on a preventive maintenance basis, this combination can improve overall system performance while reducing operating costs (e.g. polymer costs for sludge settling and dewatering). **MICROCAT-HT** contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to metabolize organics and flocculate at the high end of the thermophilic range (e.g. pulping and paper making waste and textile wastes).

## Product Characteristics

Appearance	Beige, granular powder
Contents	Preselected, adapted thermotolerant microorganisms
Nominal Microbe Count	Formulated to contain $>3 \times 10^9$ /gram
Shelf Life	Two Years
Packaging	25 Lb (11.3 Kg) plastic pails/ 220 Lb (100 Kg) fiber drums

## Application Programs

In general, **MICROCAT-HT** is applied directly to the aeration zone of the waste treatment plant on a regular preventive maintenance basis. Application programs range from about 25 pounds (11.3 Kg) per MGD (3785 m<sup>3</sup> /day) per day for upset recovery to one-half pound (.23 Kg) per MGD (3785 m<sup>3</sup> /day) per day for preventive 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	0.5 - 2.0	2.0
pH	6 - 9	7
Temperature, ° C	10 - 45	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	<b>CAUTION</b> 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.

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