



Bioscience, Inc.

Environmental Products & Services

ISO 9001:2015 Certified

## MICROCAT®-XF

### Natural Filamentous Growth Inhibitor for Wastewater Treatment Plants



#### Description

**MICROCAT-XF** is a synergistic blend of preselected, adapted microorganisms for use in wastewater treatment plants receiving municipal, pulp and paper, brewery, food processing and related wastes. Such wastes frequently cause sludge bulking in secondary clarifiers.

#### Applications

Biological wastewater treating plants receiving municipal, pulp and paper, brewery and food processing wastes from time-to-time encounter operating difficulties due to filamentous bulking. **MICROCAT-XF** is formulated to reduce filamentous microbe populations, improve sludge settling and reduce effluent suspended solids. When used on a preventive maintenance basis, this product can enhance overall system performance while reducing operating costs. **MICROCAT-XF** contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to break down a broad range of substances encountered in domestic and food processing wastes. It also contains enzymes and other ingredients selected to destabilize many filamentous microbial forms and thus improve settling.

## Product Characteristics

Appearance	Beige, granular powder
Contents	Preselected, adapted microorganisms and ancillary enzymes
Nominal Microbe Count	Formulated to contain >3 x 10 <sup>9</sup> /gram
Shelf Life	Two Years
Packaging	25 Lb (11.3 Kg) plastic pails/ 220 Lb (100 Kg) fiber drums

## Application Programs

In general, **MICROCAT-XF** 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 to one pound (.45 Kg) per MGD (3785 m<sup>3</sup> /day) per day. Your Bioscience, Inc. Technical Representative will provide you with a custom-tailored application program to fit the needs of your system.

## Optimal Application Conditions

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

CONDITION	RANGE	OPTIMUM
Dissolved Oxygen, ppm	0.5 - 2.5	2.0
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	<b>CAUTION</b> Active enzymes present. 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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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.