



Bioscience, Inc.

Environmental Products & Services

ISO 9001:2015 Certified

MICROCAT[®]-XP3

Bioformula for Concentrated Cellulosics



Description

MICROCAT-XP3 Bioformula is a synergistic blend of preselected, adapted microorganisms and specialized cellulose degrading enzymes for use in treating wastewaters of high cellulose content such as domestic sewage.

Applications

Biological wastewater treating plants receiving toilet paper and other paper products encounter difficulties in achieving desired effluent quality due to the slow breakdown of the cellulose. **MICROCAT-XP3** combines preselected, adapted microbial strains with enhanced waste degradation capability along with specialized enzymes for cellulose breakdown. When used on a preventive maintenance basis, this product can improve overall system performance while reducing operating costs. **MICROCAT-XP3** contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to break down a broad range of substances typical of wastewaters containing paper and paper related products. These include lignins, cellulose, sizes, surfactants, fibrous solids and other wastes.

Product Characteristics

Appearance	Beige, granular powder
Contents	Specialized, preselected microorganisms
Nominal Microbe Count	Formulated to contain 3×10^9 /gram
Shelf Life	Two Years
Packaging	25 Lb (11.3 Kg) plastic pails/220 Lb (100 Kg) fiber drums

Application Programs

In general, **MICROCAT-XP3** is applied directly to the aeration zone of the waste treatment plant on a preventive maintenance basis. Application programs range from about 25 pounds (13.6 Kg) per MGD (3785 m^3 /day) per day for upset recovery to one-half pound (0.23 Kg) per MGD (3785 m^3 /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 - 2.5	2.0
pH	6 - 9	7
Temperature, ° C	10 - 40	35
Toxic Heavy Metals, ppm	Trace	None
Nutrients:		
BOD: NH ₃ -N	10:1 - 10:0.5	10:1
BOD: PO ₄ -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.