



Bioscience, Inc.

Environmental Products & Services

ISO 9001:2015 Certified

MICROCAT[®]-XR

Chemical Degrading Bioformula for Wastewater Plants



Description

MICROCAT-XR is a specialty blend of preselected, adapted microorganisms for use in biological treatment plants receiving wastes containing difficult-to-degrade organic compounds from the chemical, textile, pharmaceutical and related industries. **MICROCAT-XR** contains a combination of aerobes and facultative anaerobes selected from nature for their ability to break down a broad range of natural and man-made organic compounds.

Applications

MICROCAT-XR is formulated for application in biological wastewater treating plants receiving industrial waste from petroleum refineries, textile, pharmaceutical, metals and chemical manufacturing. These plants accept a wide range of organic chemicals, some of which are toxic and/or difficult to degrade. Such chemicals tend to pass through the system or cause system upsets resulting in poor effluent quality and increased operating costs. **MICROCAT-XR** contains preselected, adapted microbial strains for enhanced biodegradation capability. When used on a preventive maintenance basis, this product can enhance the ongoing operations and improve overall system performance at reduced cost.

Product Characteristics

Appearance	Beige, granular powder
Contents	Specialized, preselected microorganisms
Nominal Microbe Count	Formulated to contain 3×10^9 /gram
Shelf Life	Three Years
Packaging - XR Packaging - XRP	25 Lb (11.3 Kg) plastic pails/220 Lb (100 Kg) fiber drums XRP in one-pound water-soluble packets

Application Programs

In general, **MICROCAT-XR** is applied directly to the aeration zone of the waste treatment plant on a preventive maintenance basis. Application programs range from about 30 pounds (13.6 Kg) per MGD (3785 m³ /day) per day for upset recovery to one pound (0.45 Kg) per MGD (3785 m³ /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 BOD: PO ₄ -P	10 : 1 - 10 : 0.5 100 : 1 - 100 : 0.5	10 : 1 100 : 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. Do not moisten or open packets [MICROCAT-XRP] prior to use.
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.

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