



Bioscience, Inc.

Environmental Products & Services

ISO 9001:2015 Certified

MICROCAT[®]-SX

FOR HYDROCARBONS Bioformula for Sewage Treatment Plants



Description

MICROCAT-SX is a synergistic blend of preselected, adapted microorganisms and powdered activated carbons for use in biological wastewater treatment plants receiving municipal and food processing wastes and for use in aerobic and anaerobic sludge digesters.

Applications

Biological wastewater treatment plants receiving municipal and food processing wastes from time-to-time encounter difficulties in achieving desired effluent quality. Variable operating conditions may cause continuing system malfunction requiring major capital and operating expenses. **MICROCAT-SX** combines the enhanced waste degradation capability of preselected, adapted microbial strains with the waste adsorption capability of powdered activated carbon. When used on a preventative maintenance basis, this combination can enhance overall system performance while reducing operating costs. **MICROCAT-SX** 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 wastes and sludges. These include lingo-cellulosics, greases, fats, proteins, fibrous solids and other wastes.

Product Characteristic

Appearance	Black, granular powder
Contents	Preselected, adapted microorganisms and powdered activated carbon
Nominal Microbial Count	Formulated to contain 3×10^9 / gram
Shelf Life	Two Years
Packaging	25 lb (11.3 Kg) plastic drums/ 220 lb (100 Kg) fiber drums (1 pound water soluble packets)

Application Programs

In general, **MICROCAT-SX** is applied directly to the aeration zone of the waste treatment plant or to the digester on a regular preventive maintenance basis. Application programs range from about 25 pounds (11.3 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
pH	6 – 9	7.0
Temperature, °C	10 – 40	35
Toxic Heavy Metals, ppm	<5	None

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 prior to use.
Handling	CAUTION Avoid inhalation of 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 tests and other 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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