



Bioscience, Inc.

Environmental Products & Services

ISO 9001:2015 Certified

## **MICROCAT®-SR**

### **Sludge Reduction Bioformula for Wastewater Treatment Plants**



#### **Description**

**MICROCAT-SR** is a synergistic blend of preselected, adapted microorganisms and enzymes carefully formulated for use in biological wastewater treatment plants receiving municipal sewage discharges.

#### **Applications**

Biological wastewater treating plants receiving municipal sewer discharges can encounter difficulties in sludge processing and disposal. Indeed 50% of the operating expenses for such plants is attributed to sludge processing and disposal. **MICROCAT-SR** is formulated with microbial degraders that efficiently convert incoming organics to carbon dioxide rather than additional cell mass. **MICROCAT-SR** also contains a combination of enzymes selected for their ability to break down a broad range of substances encountered in domestic wastes and sludges. These include ligno-cellulosics, greases, fats, proteins, fibrous solids and other wastes. Such substances tend to accumulate in the waste sludge, reducing its dewaterability and increasing its mass.

## Product Characteristics

Appearance	Beige, granular powder
Contents	Preselected, adapted microorganisms and ancillary enzymes
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-SR** 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 (0.45 Kg) per MGD (3785 m<sup>3</sup>/day) per day. Your Bioscience, Inc. Technical Representative will provide you with a custom-tailored application to fit your cleanup program.

## Optimal Application Conditions

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

CONDITION	RANGE	OPTIMUM
Dissolved Oxygen, ppm	0-2.0	>0.5
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	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.