

MICROCAT[®]-HT

High Temperature Bioformula for Wastewater Treatment Plants



Description

MICROCAT-HT is a synergistic blend of preselected, adapted microorganisms for use in biological wastewater treatment plants operating in the thermophilic transition zone (35°C - 43°C).

Applications

Biological wastewater treating plants receiving hot wastewater in warm climates from time-to-time encounter difficulties in achieving desired effluent quality. High temperature operating conditions can cause continuing poor system performance (high effluent suspended solids, poor settling due to population shifts) requiring major capital and/or operating expenses. **MICROCAT-HT** combines preselected, adapted microbial strains with enhanced waste degradation capability in the thermophilic transition range (35°C - 43°C). When used on a preventive maintenance basis, this combination can improve overall system performance while reducing operating costs (e.g. polymer costs for sludge settling and dewatering). **MICROCAT-HT** contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to metabolize organics and flocculate at the high end of the thermophilic range (e.g. pulping and paper making waste and textile wastes).

Product Characteristics

Appearance	Beige, granular powder
Contents	Preselected, adapted thermotolerant microorganisms
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-HT** 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 m³ /day) per day for upset recovery to one-half pound (.23 Kg) per MGD (3785 m³ /day) per day for preventive maintenance. Your Monera Technologies Corporation 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 - 2.0	2.0
pH	6 - 9	7
Temperature, ° C	10 - 45	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 Monera Technologies Corporation 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 Monera Technologies Corporation

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. Monera Technologies Corporation makes no guarantee of results and assumes no obligation or liability in connection with the information contained herein. Monera Technologies Corporation does not warrant against infringement of, and this data sheet is not to be construed as a license to operate under, any patents.

2201 Hangar Place, Suite 200 · Allentown, PA 18109 · (484) 245-5232 · Fax (484) 245-5236

Email: monera@moneratec.com Website: www.moneratec.com