

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 m³ /day) per day for upset recovery to one-half pound (0.23 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 - 2.5 | 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 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.