



Bioscience, Inc.
Environmental Products & Services
ISO 9001:2015 Certified

MICROCAT[®]-HX

Hydrocarbon Degrading Bioformula for Wastewater Plants



Description

MICROCAT-HX is a specialty blend of preselected, adapted microorganisms and specialized activated carbons for use in biological wastewater treatment plants. **MICROCAT-HX** contains a combination of aerobes and facultative anaerobes selected from nature for their ability to break down a broad range of man-made organic compounds. **MICROCAT-HX** also contains carefully selected powdered activated carbons for immobilizing low-level toxicants in the wastewater stream.

Applications

MICROCAT-HX is formulated for application in biological wastewater treating plants receiving industrial wastes. These plants, whether municipal or industrial, 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 and/or cause system upsets resulting in poor effluent quality and increased cost of operations. **MICROCAT-HX** synergistically combines the adsorption and waste immobilization capacity of specialized powdered activated carbons with the enhanced biodegradation capability of preselected, adapted microbial strains. When used on a preventive maintenance basis, this combination can enhance the ongoing operations and improve overall system performance at reduced cost

Product Characteristics

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|-----------------------|---|
| Appearance | Black, granular powder |
| Contents | Specialized, preselected microbes and powdered activated carbon |
| Nominal Microbe Count | Formulated to contain 5×10^9 /gram |
| Shelf Life | Two Years |
| Packaging | 25 Lb (11.3 Kg) plastic drums/ 220 Lb (100 Kg) fiber drums (one-pound water soluble packets) |

Application Programs

In general, **MICROCAT-HX** is applied directly to the aeration zone of the waste treatment plant. Application programs range from about 30 pounds (13.6 Kg) per MGD (3785 m³/day) per day for upset recovery to one pound (6.45 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 prior to use. |
| Handling | CAUTION: Active enzymes present. 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. |

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