



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

MICROCAT[®]-XBS

Bioformula for Bioremediation of Contaminated Soils



Description

MICROCAT-XBS is a synergistic blend of preselected, adapted microorganisms formulated for a broad range of bioremediation programs. It is specifically formulated for use in solving problems associated with spillage of and other forms of contamination by petroleum hydrocarbons, petrochemicals and related wastes. It is effective on crude petroleum, gasoline, and diesel fuel, machining oils, hydraulic fluids, solvents, monomers and other petroleum derivatives including chlorinated organics.

Applications

MICROCAT-XBS combines preselected, adapted microbial strains with enhanced hydrocarbon degrading capability. When used on a regular basis, this combination can improve the breakdown of oily and chemical mixtures at nominal cost. **MICROCAT-XBS** contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to break down a broad range of wastes from petroleum recovery, transportation, storage, and refining, steel making, metal forming, textile, hydrocarbon and chemical processing.

Product Characteristics

Appearance	Beige, granular powder
Contents	Preselected, adapted microorganisms
Nominal Microbe Count	Formulated to contain 5×10^9 /gram
Shelf Life	Two Years
Packaging	25 Lb (11.3 Kg) plastic pails/ 220 Lb (100 Kg) fiber drums

Application Programs

In general, **MICROCAT-XBS** is applied in combination with other synergistic **MICROCAT** products. Your Bioscience, Inc. Technical Representative will provide you with a custom-tailored application to fit the specific needs of your water or soil cleanup program.

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 you are operating outside these ranges, contact your Bioscience, Inc. Technical Representative for 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.

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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.