

## MICROCAT<sup>®</sup>-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 $5 \times 10^9$ /gram
Shelf Life	Two Years
Packaging	25 Lb (11.3 Kg) plastic pails/ 220 Lb (100 Kg) fiber drums

## Application Programs

In general, **MICROCAT-XBS** is applied in combination with other synergistic **MICROCAT** products. Your Monera Technologies Corporation 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 <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 you are operating outside these ranges, contact your Monera Technologies Corporation Technical Representative for recommendations.

## Storage and Handling

Storage	45° - 105° F (7° - 40° C) Dry conditions; DO NOT FREEZE.
Handling	<b>CAUTION</b> 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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