

### **SAFETY DATA SHEET**

According to OSHA Hazard Communication Standard 29 CFR 1910.1200; GHS 4<sup>th</sup> Revision **SECTION 1 IDENTIFICATION** 

Product Name MICROCAT®- LF Bioformula for Facultative Lagoons / Ponds

Identified uses Company For use in facultative lagoons and ponds receiving municipal, commercial, industrial and food processing waste.

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## **SECTION 2 HAZARD IDENTIFICATION**

Hazard ClassificationCategoryH-statementEye irritation2AH320Skin irritation2H315

Hazard pictograms

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Signal words Warnin

Hazard statements Causes eye irritation (H320)

Causes skin irritation (H315)

Precautionary statements P264 – Wash thoroughly after handling.

P280 – Wear protective gloves.

P302 + P352 - IF ON SKIN, wash with soap and plenty of water.

 ${\sf P305 + P351 + P338 - IF\ IN\ EYES:\ Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove\ contact\ lenses,\ if\ and\ an expectation of the particles of the parti$ 

present and easy to do. Continue rinsing.

P332 + P313 – If skin irritation occurs, get medical advice/attention. P337 + P313 – If eye irritation persists, get medical advice/attention. P362 + P364 – Take off contaminated clothing and wash it before reuse.

P362 + P364 – Take off contaminated clothing and wash it before reuse.

Further information Crystalline silica is a known cause of silicosis (a non-cancerous lung disease). Prolonged and/or repeated

inhalation must be avoided.

Other hazards Hypersensitive individuals are more at risk for sensitization.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity
Common name

Synonyms Non-pathogenic, naturally-occurring microorganisms and degradation enzymes absorbed on wheat

bran and corn gluten

**Hazardous Components** 

 Chemical Name (Concentration)
 CAS-No

 Dolomite (< 45%)</td>
 16389-88-1

 Protease (< 1%)</td>
 9014-01-1

 Amylase (<1%)</td>
 9000-90-2

 Crystalline silica (<0.4%)</td>
 14808-60-7

**Non-Hazardous Components** 

 Name
 CAS-No

 Wheat bran
 116469-86-4

 Corn gluten
 66071-96-3

 Diatomaceous earth
 91053-39-3

 Sodium lauryl sulfate
 151-21-3

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#### **SECTION 4 FIRST-AID MEASURES**

Product may cause eye irritation. Direct contact with eyes should be avoided. In case of contact with eyes, flush Eye

eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin Product may cause skin irritation. Direct contact with skin should be avoided. In case of contact with skin, wash

skin with soap and water. Remove contaminated clothing and wash. Seek medical attention

Inhalation May cause sensitization by inhalation in hypersensitive individuals. Avoid product handling which results in

dust generation. If inhaled, remove from contaminated area to fresh air. Report situation. Take individual to

emergency room if symptoms of sensitization or irritation occur.

Ingestion Ingestion of material may cause mouth and throat irritation and/or gastric disturbance. If swallowed, rinse mouth

and throat with tap water. Drink water

Most important symptoms/effects, acute and delayed

Further information

### **SECTION 5 FIRE-FIGHTING MEASURES**

Suitable extinguishing media

Specific hazards arising from the chemical

Special protective actions for fire-fighters

Dry chemical, carbon dioxide, chemical foam or water fog.

No special requirements. Organic dusts are a weak explosion hazard. Not hazardous under

normal storage and use conditions.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment, and

emergency procedures

**Environmental precautions** 

Methods and materials for containment and cleaning

Provide sufficient ventilation.

None

Spilled product should be removed immediately to avoid formation of dust. Contain

spill, sweep up or vacuum, avoiding airborne dust, place in plastic bags.

#### **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling Avoid formation of dust. Provide adequate ventilation of the room when handling this product.

Provide eyewash capability.

Conditions for safe storage, including any

incompatibilities

None

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Control Parameters**

Name	CAS-No	TLV (ACGIH)	PEL (OSHA)	
Dolomite	16389-88-1	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	
Protease	9014-01-1	.00006 mg/m³ (as pi	.00006 mg/m³ (as pure protease)	
Amylase	9000-90-2	None establ	None established	
Crystalline silica	14808-60-7	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	
Wheat bran	116469-86-4	10 mg/m³ (nuisa	10 mg/m³ (nuisance dust)	
Corn gluten	66071-96-3	10 mg/m³ (nuisa	10 mg/m³ (nuisance dust)	
Ground and dehydrated algae	91053-39-3	10 mg/m³ (nuisa	10 mg/m³ (nuisance dust)	
Sodium lauryl sulfate	151-21-3	10 mg/m³ (nuisance dust)		

<sup>\*</sup> Specific limits not set for these chemicals. Limits are shown for Particles Not Otherwise Regulated (PNOR) or Particles Not Otherwise Classified (PNOC). First number is for total dust second number { } is for respirable dust

#### Personal Safety Equipment

**Eye Protection** Safety glasses with side shields or face shield.

Skin Protection Wear long-sleeve shirt, trousers, safety shoes, gloves (rubber or vinyl).

Respiratory protection Dust mask or respirator for particle removal (NIOSH).

Industrial Hygiene Maintain good housekeeping. Avoid dusty conditions. Wash hands and exposed skin after contact. Avoid contact

with food or food preparation surfaces. If exposure of food surfaces occurs, wash with germicidal detergent or

chlorine bleach. Remove and wash contaminated clothing.

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# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

BASIC PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Tan granular powder	
Odour	Mild odor	
Odour threshold	Information not available	
pH	6 – 9 (1% suspension)	
Melting point /Freezing Point	Information not available	
Initial Boiling point and boiling point range	Does Not Apply	
Flash Point	Does Not Apply	
Evaporation rate	Does Not Apply	
Flammability (solid; gas)	Information not available	
Upper/lower flammability or explosive limits	Does Not Apply	
Vapour pressure	Does Not Apply	
Vapour density	Does Not Apply	
Relative density	Information not available	
Solubility (ies)	< 5% in water	
Partition coefficient: n-octanol/water	Does Not Apply	
Auto-ignition temperature	Information not available	
Decomposition temperature	Information not available	
Viscosity	Does Not Apply	
Other Physical/Chemical Properties	Information not available	

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions and use.

Possibility of hazardous reactions None know

Conditions to avoid Freezing or temperatures greater than 100°F (40°C)

Incompatible materials Strong acids, bases or oxidizers

Hazardous decomposition products None known

## **SECTION 11 TOXOLOGICAL INFORMATION**

Acute toxicity	Acute Effects: Eye – redness, soreness Skin – Redness, rash, burning, dry, itching skin Inhalation – nasal irritation, headache, cough, shortness of breath Ingestion – malaise, dizziness, and nausea, gastrointestinal burns
Skin Corrosion/Irritation	Mild
Serious Eye Damage/Irritation	Mild
Respiratory or Skin Sensitization	Mild
Ingestion	Information not available
Germ Cell Mutagenicity	Information not available
Carcinogenicity	Crystalline silica probably carcinogenic NTP: No IARC Monographs: No OSHA Regulated: No Product may contain <1% crystalline silica (CS). IARC has classified CS as probably carcinogenic for humans (2A). NTP lists CS as a substance which may reasonably be anticipated to be a carcinogen. CS is a known cause of silicosis (a non-cancerous lung disease)
Reproductive Toxicity	Information not available
Specific Target Organ Toxicity – Single Exposure	Information not available
Specific Organ Toxicity – Repeated Exposure	Information not available
Aspiration Hazard	Information not available
General Remarks	Enzymes in this product are non-toxic (LD $50 > 2$ g/kg in rats). May cause respiratory allergy in susceptible individuals (shortness of breath, wheezing, labored coughing)

# **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity	Information not available
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Information not available

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Mobility in Soil Information not available Other adverse effects Information not available

### **SECTION 13 DISPOSAL CONSIDERATIONS**

Methods Containers Dispose of in accordance with current Federal, State, and Local regulations

## **SECTION 14 TRANSPORTATION INFORMATION**

UN Number	Mixture not classified as Hazardous according to Regulation (EC) 1272/2008.
UN Proper Shipping Name	n/a
Transport Hazard Class	n/a
Packing Group (if applicable)	n/a
Environmental Hazards	n/a
Special Precautions for User	n/a
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code	n/a
DOT Proper Shipping Name	Chemicals not otherwise indexed (NOI) non-hazardous.

### **SECTION 15 REGULATORY INFORMATION**

EU Directive 2000\_54 regarding risks from biological agents: micro-organisms in Class 1 may be used without restriction.

WGK (Water Hazards Class): 0 non-hazardous to water

Canadian WHMIS: Controlled product Hazard Class D2A (respiratory sensitizer); Toxic Class D2B (eye irritant)

All ingredients used are listed on the USEPA TSCA Inventory list.

## **SECTION 16 OTHER INFORMATION**

Key: N/A, n/a - Not available

Mixture classified as not dangerous according to Regulation (EC) 1272/2008.

Observe employment restrictions for people.

Components not precisely identified are proprietary or non-hazardous. All chemical ingredients appear on the EPA TSCA inventory.

The microbes in this product are Class 1 microbes, defined by the US Centers for Disease Control as not likely to cause disease in healthy humans and animals. However, contact with open wounds should be avoided; persons who have a compromised immune system or a history of severe allergic response should avoid contact and/or breathing dust or mist from product handling or manufacturing processes.

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications; for this information contact Monera Technologies Corporation, Technical Department.

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