

### **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®-XF Filamentous Growth Inhibitor

Identified uses Company Natural filamentous growth inhibitor for wastewater treatment plants.

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### **SECTION 2 HAZARD IDENTIFICATION**

ClassificationCategoryH-statementSkin irritant2H315Eye irritant2AH319

Hazard pictograms

Signal words Warning

Hazard statements Causes skin irritation (H315)

Causes serious eye irritation (H319)

Precautionary statements P264 – Wash thoroughly with soap and water after handling.

P280 – Wear protective gloves, eye and/or face protection. P302 + P352 – IF ON SKIN: Wash with soap and plenty of water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do so. 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 before reuse.

Further information 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.

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

inhalation must be avoided.

Other hazards

### **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 (< 70%)</td>
 16389-88-1

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

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

 Crystalline silica (< 0.1%)</td>
 14808-60-7

\*Actual active enzyme protein concentrations are proprietary information; these concentrations are below the concentrations triggering characterization as a respiratory sensitizer. Please note the

"Further information" under Hazard Identification and first aid for inhalation below.

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**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

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

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

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

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.

Seek medical attention if allergic response exhibited.

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

Skin

Sensitization (shortness of breath, wheezing, and labored coughing) take individual to emergency room.

#### **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

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

Personal precautions, protective

equipment, and emergency procedures

**Environmental precautions** 

Methods and materials for containment

and cleaning up

Provide sufficient ventilation.

Advice for emergency responders: protective equipment see section 8.

Spilled product should be removed immediately to avoid formation of dust. Contain spill, sweep up

avoiding airborne dust. Provide sufficient ventilation.

## **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling Conditions for safe storage, including any incompatibilities Avoid creating dust. Adequately ventilate when handling this product. Provide eyewash capability. No special requirements. Organic dusts are a weak explosion hazard. Not hazardous under normal storage and use conditions.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control Parameters**

Name	% by Weight	TLV (ACGIH)	PEL (OSHA)
Dolomite	<70	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Crystalline silica	<0.1	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Protease	<1	0.00006 mg/m³ (as pure protease)	
Amylase	<1	None established	
Wheat bran	<40	10 mg/m³ (nuisance dust)	
Corn gluten	<40	10 mg/m³ (nuisance dust)	
Diatomaceous earth	<1	10 mg/m³ (nuisance dust)	
Sodium lauryl sulfate	<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 HANDS: 0.11 mm Nitrile rubber gloves (breakthrough time > 480 min)

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

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

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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.

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

BASIC PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Tan granular powder	
Odour	Yeast 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 Information Not Available

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

Incompatible materials Strong acids, bases or oxidizers Hazardous decomposition products Information Not Available

## **SECTION 11 TOXOLOGICAL INFORMATION**

Acute toxicity	Information Not Available
Skin Corrosion/Irritation	Irritation
Serious Eye Damage/Irritation	Irritation
Respiratory or Skin Sensitization	May cause respiratory allergy in susceptible individuals: sensitization (shortness of breath, wheezing, and labored coughing) take individual to emergency room.
Ingestion	Mouth/throat irritation, gastric disturbance
Germ Cell Mutagenicity	Information Not Available
Carcinogenicity	Crystalline silica probably carcinogenic
	NTP: No
	IARC Monographs: No
	OSHA Regulated: No
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	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). Enzymes in this product are non-toxic (LD 50 >2 g/kg in rats).

## **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity Information Not Available Persistence and degradability Readily biodegradable

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Bioaccumulative potential	Information Not Available	
Mobility in Soil	Information Not Available	
Other adverse effects	Information Not Available	

### **SECTION 13 DISPOSAL CONSIDERATIONS**

Methods Dispose of all wastes in accordance with all Federal, state and local agencies.

Containers n/a

### **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.

WHMIS: Toxic Class D2B (eye irritant)

### **SECTION 16 OTHER INFORMATION**

Key: N/A, n/a – Not available

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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