

## **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® - ST Septic Tank Bioformula

Identified uses Toilet/septic tank deodorizer and activator.

Company Bioscience, Inc.

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## **SECTION 2 HAZARD IDENTIFICATION**

Hazard 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 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 Nonpathogenic, naturally occurring bacteria and degradation enzymes with chemical nutrients and

enhancers.

**Hazardous Components** 

 Chemical Name (Concentration)
 CAS-No

 Dolomite (< 55%)</td>
 16389-88-1

 Urea (< 10%)</td>
 57-13-6

 Protease (1%)
 9014-01-1

 Amylase (1%)
 9000-90-2

 Ferrous sulfate (1%)
 7782-63-0

 Crystalline silica (< 0.5%)</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

 Diammonium phosphate (< 1%)</td>
 7783-28-0

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

Eye May cause eye irritation or injury. In case of contact with eyes, flush eyes with water for at least 15 minutes and seek

medical attention.

Skin May cause skin irritation. It is recommended that prolonged direct contact with skin be avoided. In case of contact

with skin, wash skin with soap and water. Remove contaminated clothing and wash.

Inhalation May cause irritation of respiratory tract. 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 or difficulty in

breathing is exhibited.

Ingestion Ingestion of material may cause gastric disturbance, irritation. If swallowed, rinse mouth and throat with tap water.

Consult physician if symptoms persist.

Most important symptoms/effects, acute and delayed

Further information

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

Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or foam.

Specific hazards arising from the chemical Special protective actions for fire-fighters

Some toxic fumes may be generated by thermal decomposition. Wear MSHA/NIOSH approved

self-contained breathing apparatus and/or stay up-wind from fire.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment, and

emergency procedures

Environmental precautions

Methods and materials for containment and cleaning

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Use with adequate ventilation, provide eyewash capability. Avoid creating dust.

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

Provide eye wash capability. Avoid creating dust, adequately ventilate while handling. No special requirements for fire protection as product is not readily combustible. Do not mix with acids or carbon dioxide evolution may pressurize closed container.

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

## **Control Parameters**

Name	% by Weight	TLV (ACGIH)	PEL (OSHA)
Dolomite	< 55	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Crystalline silica	< 0.5	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	
Urea	< 10	10 mg/m³ {3}*	15 mg/m <sup>3</sup> {5}*
Ammonium phosphate	< 10	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Ferrous sulfate	1	≤ 1 mg/m³	
Wheat bran		10 mg/m³ (nuisance dust)	
Corn gluten		10 mg/m³ (nuisance dust)	
Diatomaceous earth		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, rubber or vinyl gloves.

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	4.5 (10% suspension)	
Melting point /Freezing Point	> 100°C	
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)	approximately 60%; individual components may exceed 100g/100g water at 20°C	
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 storage and usage conditions.

Possibility of hazardous reactions Information not available

Conditions to avoid Freezing or temperature greater than 100°F (40°C). Do not mix with acids or carbon dioxide

evolution may pressurize closed container.

Incompatible materials Strong acids, bases or oxidizers. Hazardous decomposition products Information not available

# **SECTION 11 TOXOLOGICAL INFORMATION**

Acute toxicity	Inhalation of dust resulting from inappropriate handling may cause respiratory allergy in susceptible individuals.
Skin Corrosion/Irritation	Product may cause skin irritation.
Serious Eye Damage/Irritation	Product may cause eye irritation.
Respiratory or Skin Sensitization	May cause sensitization by inhalation in hypersensitive individuals.
Ingestion	may cause mouth and throat irritation and/or gastric disturbance.
Germ Cell Mutagenicity	Information not available
Carcinogenicity	Crystalline silica probably carcinogenic NTP: See below
	IARC Monographs: See below
	OSHA Regulated: Yes
	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 –	Information not available
Single Exposure	
Specific Organ Toxicity – Repeated	Information not available
Exposure	
Aspiration Hazard	Information not available
General Remarks	

# **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity	Product will have no adverse environmental effects when used as directed.
Persistence and degradability	Organic matter in product is biodegradable.
Bioaccumulative potential	Information not available
Mobility in Soil	Information not available
Other adverse effects	Information not available

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## **SECTION 13 DISPOSAL CONSIDERATIONS**

Methods Dispose with municipal or domestic waste in accordance with current Federal, State, and Local regulations.

Containers n/a

#### **SECTION 14 TRANSPORTATION INFORMATION**

UN Number Mixture not classified as Hazardous according to Regulation (EC) 1272/2008.

UN Proper Shipping Name

Transport Hazard Class

Packing Group (if applicable)

Environmental Hazards

Special Precautions for User

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

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.

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

Canadian WHMIS: Toxic Class D2B (eye irritant)

## **SECTION 16 OTHER INFORMATION**

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

Product is not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

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 Bioscience, Inc. Technical Department.

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