

#### **SAFETY DATA SHEET**

According to OSHA Hazard Communication Standard 29 CFR 1910.1200; GHS 4th Revision

#### **SECTION 1 IDENTIFICATION**

Product Name MICROCAT®-DL Deodorizer/Liquefier Bioformula

Identified uses For deodorizing and liquefying animal droppings; for improving the quality and utility of reusable animal waste residues.

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 P264; Wash thoroughly after handling.

statements P280; Wear protective gloves, clothing, and eye protection.

P302 + P352; IF ON SKIN: Gently wash area with soap and plenty of water.

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

present and easy to do. Continue rinsing.

P332 + P313; If skin irritation occurs, get medical attention/advice. P337 + P313; If eye irritation persists: Get medical attention/advice. P362 + P364; Take off contaminated clothing and wash it 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 CAS-No (Concentration)

Dolomite (<40%) 16389-88-1 Amylase (< 1%) 9000-90-2 Protease (<1%) 9014-01-1 Crystalline silica (< 0.4%) 14808-60-7

**Non-Hazardous Components** 

 Name
 CAS-No

 Wheat bran
 116469-86-4

 Corn gluten
 66071-96-3

 Diatomaceous earth
 91053-39-3

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#### **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.

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.

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 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.

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 Avoid creating dust. Adequately ventilate when handling this product. Provide

eyewash capability.

Conditions for safe storage, including any

incompatibilities

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	CAS-No	TLV (ACGIH)	PEL (OSHA)
Dolomite	16389-88-1	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Amylase	9000-90-2	None estab	lished
Protease	9014-01-1	0.00006 mg/m³ (as pure protease)	
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 (nuisance dust)	
Corn gluten	66071-96-3	10 mg/m³ (nuisance dust)	
Diatomaceous earth	91053-39-3	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 and 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	
рН	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 over 100°F (40°C)

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

### **SECTION 11 TOXOLOGICAL INFORMATION**

Acute toxicity	Eyes – redness, soreness; Skin – redness, burning, dry, itching skin; Inhalation – nasal irritation, headache, cough, shortness of breath; Ingestion – malaise, dizziness, and nausea, gastro intestinal burns
Skin Corrosion/Irritation	Mild
Serious Eye Damage/Irritation	Mild
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
	Large amounts will require medical attention.
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 $50 > 2 \text{ g/kg}$ in rats).

# **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity	Information Not Available	
Persistence and degradability	Readily biodegradable	
Bioaccumulative potential	Information Not Available	
Mobility in Soil	Information Not Available	

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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	n/a
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), Controlled product Hazard Class D2A (respiratory sensitizer)

### **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 Bioscience, Inc. Technical Department.

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