

SAFETY DATA SHEET

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

Product Name MICROCAT®-CC Composting Bioformula

Identified uses Composting agricultural, industrial and domestic refuse and sludges.

Monera Technologies Corporation Company

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SECTION 2 HAZARD IDENTIFICATION

Hazard Classification Category H-statement Skin Irritant H315 2 Eve irritant 2A H319 Specific Target Organ Toxicity -H373

Warning

Repeated

Hazard pictograms

Signal words

Hazard statements Causes skin irritation (H315)

Causes serious eye irritation (H319)

May cause damage to organs through prolonged or repeated exposure (H373)

Precautionary statements P260 – Do not breathe dust.

P264 - Wash thoroughly after handling;

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

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

if present and easy to do so. 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 before reuse

P314 - Get medical advice if you feel unwell.

P501 – Dispose of contents/container in accordance with local, state, and Federal regulations. Persons who have a compromised immune system or a history of severe allergic reactions/response

should avoid contact with open wounds and/ or breathing dust or mist from product handling or

manufacturing process.

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

inhalation must be avoided.

Other hazards

Further information

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity Common name

Non-pathogenic, naturally occurring microorganisms absorbed on wheat bran and corn gluten Synonyms

Hazardous Components

Chemical Name (Concentration) CAS-No Dolomite (<40%) 16389-88-1 Protease (1%) 9014-01-1 9000-90-2 Amylase (1%) Crystalline silica (<0.4%) 14808-60-7

MSDS Created: 12/99 Revision: 04/20/2020 CC Page 1 of 4 **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 Flush eyes with water for at least 15 minutes, seek medical attention Skin Wash skin with soap and water, remove contaminated clothing

Eye - redness, soreness

Inhalation Remove individual to fresh air. If allergic response or difficulty breathing is exhibited, seek

medical attention.

Ingestion

Most important symptoms/effects, acute

and delayed

Skin – Redness, rash, burning, dry, itching skin

Inhalation - Nasal irritation, headache, cough, shortness of breath Ingestion - Malaise, dizziness, and nausea, gastrointestinal burns

If swallowed, rinse mouth and throat with tap water, if symptoms persist consult a physician

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

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, spilled product should be removed

immediately to avoid formation of dust.

Contain spill, sweep up avoiding airborne dust.

SECTION 7 HANDLING AND STORAGE

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

handling. Provide eyewash capability.

Conditions for safe storage, including any

incompatibilities

No special requirements, Contains organic matter which may be explosive as a dust on very high concentrations; generally considered a low explosive hazard.

Store in a suitable container.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Name	CAS-No	TLV (ACGIH)	PEL (OSHA)
Dolomite	16389-88-1	10 mg/m ³	5 mg/m ³
Crystalline silica	14808-60-7	0.1 mg/m ³	0.1 mg/m ³
Protease	9014-01-1	.00006 mg/m³ (as pure protease)	
Amylase	9000-90-2	None established	
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)	

^{*} 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 shield or face shield Skin Protection Wear long-sleeve shirt, trousers, safety shoes, gloves

Respiratory protection Dust mask

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 granulated 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	Information not available
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	Does Not Apply
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 above 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	May cause skin irritation
Serious Eye Damage/Irritation	May cause eye irritation or redness
Respiratory or Skin Sensitization	May cause irritation of respiratory tract
Ingestion	May cause gastric disturbance, irritation
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). This product contains crystalline silica which is considered a health hazard by inhalation. IARC reviewed the literature (Oct., 1996) for polymorphs of crystalline silica and determined that: There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the forms of quartz and cristobalite from occupational sources. There is inadequate evidence in humans for the carcinogenicity of amorphous silica. There is sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite. There is limited evidence in experimental animals for the carcinogenicity of diatomaceous earth. There is inadequate evidence in experimental animals for the carcinogenicity of synthetic amorphous silica. Overall evaluation: Inhaled crystalline silica in the form of quartz and cristobalite from occupational sources is carcinogenic to humans (Group 1).
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). Inhalation of dust may cause respiratory allergy in susceptible individuals.

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SECTION 12 ECOLOGICAL INFORMATION

Toxicity	Information not available
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Information not available
Mobility in Soil	Information not available
Other adverse effects	Information not available

SECTION 13 DISPOSAL CONSIDERATIONS

Methods Dispose of 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

Canada WHIMS: controlled product is 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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