

### **SAFETY DATA SHEET**

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

#### **SECTION 1 IDENTIFICATION**

Product Name MICROCAT® - TM Trace Nutrient Blend for Biodegradation

Identified uses Micronutrient blend for biodegradation and bioremediation programs.

Company Bioscience, Inc.

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### **SECTION 2 HAZARD IDENTIFICATION**

Hazard Classification Category H-statement
Skin irritant 2 H315
Eye irritant 2A H319
Sensitization – respiratory 1B H334
Specific Target Organ Toxicity – 2 H371

Single

Hazard pictograms

Signal words Warning

Hazard statements Causes skin irritation (H315).

Causes serious eye irritation (H319).

May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334).

May cause damage to organs (H371).

Precautionary statements Do not breathe dust (P260).

Wash thoroughly after handling (P264).

Do not eat, drink or smoke when using this product (P270). Wear eye protection, face protection and protective gloves (P280).

Wear respiratory protection (P284).

IF ON SKIN: Wash with soap and plenty of water (P302 + P352).

IF INHALED: remove person to fresh air and keep comfortable for breathing (P304 + P340). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing (P305 + P351 + P338).

IF exposed or concerned: Call a POISON CENTER or doctor (P308 + P311). If skin irritation occurs: Get medical advice/attention (P332 + P313). If eye irritation persists: Get medical advice/attention (P337 + P313).

If experiencing respiratory symptoms: Call a POISON CENTER or doctor (P342 + P311).

Take off contaminated clothing and wash it before reuse (P362 + 364).

Store locked up (P405).

Dispose of contents/container in accordance with local, regional, and federal regulations (P501). 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.

Other hazards

**Further information** 

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Identity
Common name

Synonyms Calcium and magnesium carbonates, iron salts and

organic nutrients

**Hazardous Components** 

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CAS-No **Chemical Name** Hazard

(Concentration) Dolomite (40%) 16389-88-1 Crystalline silica (< 0.1%) 14808-60-7 Ferrous sulfate 7782-63-0

heptahydrate (<10%) Non-Hazardous Components

Name CAS-No Diatomaceous Earth 91053-39-3

Ground and dehydrated

algae

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

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

minutes and 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 irritation of respiratory tract. Avoid inappropriate handling which may result in dust generation. If

inhaled, remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic

H334

H371 H315,H319

response or difficulty in breathing is exhibited. Give artificial respiration if not breathing.

Ingestion Ingestion of material may cause gastric disturbance, irritation, shock, liver damage, tachycardia, and death. If

swallowed, rinse mouth and throat with tap water. Never give anything by mouth to unconscious person. Cover

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

victim if in shock. Remove to physicians care.

Most important

symptoms/effects, acute

and delayed

Further information When consulting a physician, show this SDS to attending doctor. Move out of dangerous area.

# **SECTION 5 FIRE-FIGHTING MEASURES**

Suitable extinguishing media Use dry chemical, carbon dioxide, chemical foam or water spray or foam.

Specific hazards arising from the chemical

Burning may produce sulfur and iron oxides, carbon monoxide. Special protective actions for fire-fighters

No special requirements. This material is not highly combustible but contains organic matter

which may be explosive as a dust in very high concentrations. Generally considered a low

explosion hazard.

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

Personal precautions, protective equipment, and Provide sufficient ventilation.

emergency procedures Advice for emergency responders: protective equipment see section 8.

**Environmental precautions** Do not allow product to enter drains.

Methods and materials for containment and Spilled product should be removed immediately to avoid formation of dust. Store in

suitable container. Wash down with water. Dispose to landfill. Provide sufficient

ventilation.

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

Precautions for safe handling Conditions for safe storage, including

any incompatibilities

cleaning up

Avoid creating dust. Adequately ventilate when handling this product. Provide eyewash capability. Store in a suitable container, No special requirements. This material is not highly combustible but contains organic matter which may be explosive as a dust in very high concentrations. Generally considered a low explosion hazard.

# 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>
Crystalline silica	14808-60-7	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Ferrous sulfate heptahydrate	7782-63-0	1 mg/m³	1 mg/ m <sup>3</sup>

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Ground and dehydr	ated algae		10 mg/m³ (nuisance dust)	
Diatomaceous eart	า	91053-39-3	10 mg/m <sup>3</sup> (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. Remove and wash contaminated clothing.

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

BASIC PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Light brown granular powder
Odour	mild fishy odor
Odour threshold	Information Not Available
pH	5.0 (5% 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	11 mm Hg @25°C
Vapour density	Information Not Available
Relative density	Information Not Available
Solubility (ies)	30% (up to 57 g/ 100mL soluble in hot 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 Moisture absorption may cause spoilage of organic matter.

Incompatible materials Alkalis, soluble carbonates, oxidizing materials.

Hazardous decomposition products Burning may produce sulfur oxides, iron oxides carbon monoxide.

#### **SECTION 11 TOXOLOGICAL INFORMATION**

Acute toxicity	Oral - >10,000 mg/m³ (mouse oral LD50)
Skin Corrosion/Irritation	Redness, itching and pain.
Serious Eye Damage/Irritation	Redness, irritation and pain.
Respiratory or Skin Sensitization	Irritation, coughing, shortness of breath
Ingestion	Ingestion of material may cause gastric disturbance, irritation shock, liver damage, tachycardia, and death.
Germ Cell Mutagenicity	Information Not Available
Carcinogenicity	No component >0.1% identified as known or anticipated carcinogen
Reproductive Toxicity	Information Not Available
Specific Target Organ Toxicity – Single Exposure	Information Not Available
Specific Organ Toxicity – Repeated Exposure	Crystalline silica is a known cause of silicosis, a non-cancerous lung disease.
Aspiration Hazard	Information Not Available
General Remarks	Information Not Available

# **SECTION 12 ECOLOGICAL INFORMATION**

TOXICITY	Application of product to potential drinking water sources shall not exceed residual from concentration of
	0.2 mg/m3

Application of good, at to protected description water as small got account and account of the control of the c

 $0.3 \text{ mg/m}^3$ .

Persistence and degradability Information Not Available

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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 Reportable quantity (RQ): IMDG/IATA	Chemicals not otherwise indexed (NOI) non-hazardous. n/a Not dangerous goods

#### **SECTION 15 REGULATORY INFORMATION**

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

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimus) reporting levels of SARA Title III, Section 313.

SARA 311/313 Hazards: Acute health hazard

Massachusetts, Pennsylvania, and New Jersey Right-to-know Components: Ferrous sulfate heptahydrate; CAS No.7782-63-0; Revision date: 1993-04-24

CERCLA - 49 CFR Ch. 1 (10-1-08 Edition) Section 172.101: Reportable quantity of ferrous sulfate is 1,000 lbs.

California Proposition 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

HMIS rating: Health 2; Flammability 0; Physical 0

NFPA Rating: Health 2; Fire 0; Reactivity 0

WGK 0

## **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 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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