

# 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® - SH Biodegradable Wetting Agent Identified uses Formulated for use in soil cleanup and sludge processing operations. Company Bioscience, Inc. 2201 Hangar Place, Suite 200 Allentown, PA 18109 Phone: (800) 627-3069 (484) 245-5232 Website http://www.bioscienceinc.com

# SECTION 2 HAZARD IDENTIFICATION

Hazard Classification	Category	H-statement
Acute toxicity: Inhalation	4	H332
Acute toxicity: Oral	4	H302
Acute Toxicity: Dermal	4	H312
Skin Irritant	2	H315
Eye Irritant	2A	H319

Hazard pictograms

Signal words	Warning
Hazard statements	Harmful if swallowed (H302)
hazara statements	Harmful in contact with skin (H312)
	Harmful if inhaled (H332)
	Causes skin irritation (H315)
	Causes serious eye irritation (H319)
Procautionary statements	P261 – Avoid breathing dust, fumes, mist, vapors, or spray.
Precautionary statements	
	P264 – Wash thoroughly after handling.
	P270 – Do not eat, drink or smoke when using this product.
	P271 – Use only outdoors or in a well-ventilated area.
	P280 – Wear protective gloves/protective clothing.
	P301 + P312 + P330 – IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.
	P302 + P352 – IF ON SKIN: Wash with soap and plenty of water.
	P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P312 – Call a POISON CENTER or doctor if you feel unwell.
	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 it before reuse.
	PS01 – Dispose of contents/container in accordance with local, regional, and federal regulations.
Funth an information	Pour – Dispose of contents/container in accordance with local, regional, and rederal regulations.
Further information	

Other hazards

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity Common name	
Synonyms	concentrated nonionic surfactants
Hazardous Components Chemical Name (Concentration)	CAS-No

## SECTION 4 FIRST-AID MEASURES

Eye	It is recommended that direct contact with eyes be avoided. In case of contact with eyes, flush eyes with low pressure water for at least 30 minutes, remove contacts after 5 minutes. If irritation persists, seek medical attention.
Skin	In case of contact with skin, wash skin with plenty of water. Remove contaminated clothing and wash. If irritation persists seek medical attention.
Inhalation	Remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response exhibited.
Ingestion Most important syn Further informatio	Do Not Induce Vomiting. Seek medical attention immediately. mptoms/effects, acute and delayed n

#### SECTION 5 FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry Chemical, Carbon Dioxide, or Water Spray
Specific hazards arising from the chemical	Explosive mixtures may form when mixed with strong oxidizing and reducing agents.
Special protective actions for fire-fighters	

# SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	Provide adequate ventilation.
Environmental precautions	Do not allow to get into soil, ditches, sewers, waterways and or groundwater.
Methods and materials for containment and cleaning up	Contain spill with inert material (sand or earth); scoop or shovel dry material into suitable container for recovery or disposal. Wash down area with water to a chemical sewer. Keep runoff out of municipal sewers and open bodies of water. Dispose of in accordance with current regulations.

# SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage, including any incompatibilities No

Do not get in eyes. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Use adequate ventilation. Wash thoroughly after handling No specific requirements

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

Name	% by Weight	TLV (ACGIH)	PEL (OSHA)

\* 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
 Chemical splash goggles (ANSIZ-87.1 or approved equivalent)
 Skin Protection
 Wear long-sleeve shirt, trousers safety shoes, rubber gloves.
 Respiratory protection.

Industrial Hygiene Maintain good housekeeping. 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 CHEMI	L PROPERTIES
Appearance	Light color viscous liquid
Odour	Mild odor

Odour threshold	Information not available
pH	6 – 8 (1% suspension)
Melting point /Freezing Point	Information not available
Initial Boiling point and boiling point range	Information not available
Flash Point	Information not available
Evaporation rate	Information not available
Flammability (solid; gas)	Information not available
Upper/lower flammability or explosive limits	Information not available
Vapour pressure	Information not available
Vapour density	Information not available
Relative density	Information not available
Solubility (ies)	Moderate in water
Partition coefficient: n-octanol/water	Information not available
Auto-ignition temperature	Information not available
Decomposition temperature	Information not available
Viscosity	Information not available
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	Elevated temperatures can cause product to decompose.
Incompatible materials	Strong acids, strong bases, strong oxidizers
Hazardous decomposition products	Information not available

# SECTION 11 TOXOLOGICAL INFORMATION

Acute toxicity	Ingestion: LD₅0 rat – male: 1630-2394 mg/kg; female: 412 mg/kg. Skin Absorption LD₅0 rabbit – male: 1127 mg/kg; female: 2395 mg/kg. Inhalation: 4h, aerosol, rat – male/female 1.06mg/L	
Skin Corrosion/Irritation	Moderate skin irritation and redness, may produce drying/flaking effect .	
Serious Eye Damage/Irritation	Cause severe irritation with possible corneal injury, chemical burns may occur.	
Respiratory or Skin Sensitization	At room temperature vapors are minimal, excessive exposure to heated vapors may cause lung injury.	
Ingestion	Can cause vomiting, gastric disturbances.	
Germ Cell Mutagenicity	Information Not Available	
Carcinogenicity	NTP: No	
	IARC Monographs: No	
	OSHA Regulated: No	
Reproductive Toxicity	Information Not Available	
Specific Target Organ Toxicity – Single	Information Not Available	
Exposure		
Specific Organ Toxicity – Repeated	Information Not Available	
Exposure		
Aspiration Hazard	Information Not Available	
General Remarks	Information Not Available	

# SECTION 12 ECOLOGICAL INFORMATION

Toxicity	Material is moderately toxic to aquatic organisms on an a species tested		cute basis (LC $_{50}/EC_{50}$ between 1 and 10 mg/L in most sensitive	
Fish Acute & Prolonged toxicity		olonged toxicity	$LC_{50}$ fathead minnow (Pimephales promelas), static, 96 h: $3.2 - 3.6$ mg/L	
	Aquatic Invertebrate Acute Toxicity Toxicity to microorganisms		EC <sub>50</sub> water flea Daphnia magna, static, 48 h, immobilization: 7.3 mg/L	
			$EC_{\rm S0}$ bacteria, growth inhibition (cell density reduction), 16 h: > 1,000 mg/L	
Persistence and degra	dability	Information Not Available		
Bioaccumulative pote	ntial	Information Not Available		
Mobility in Soil		Information Not Available		
Other adverse effects		Information Not Available		

# SECTION 13 DISPOSAL CONSIDERATIONS

Methods Containers Dispose of in accordance with current Federal, State, and Local regulations. n/a

# SECTION 14 TRANSPORTATION INFORMATION

UN Number	UN3082
UN Proper Shipping Name	Environmentally Hazardous substance, liquid, NOS
Transport Hazard Class	Class 9
Packing Group (if applicable)	III
Environmental Hazards	Marine Pollutant
Special Precautions for User	
Transport in Bulk According to Annex II of	
MARPOL 73/78 and the IBC Code	
DOT Proper Shipping Name	Environmentally Hazardous substance, liquid, NOS

# 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.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **SECTION 16 OTHER INFORMATION**

Key: N/A, n/a – Not available

Observe employment restrictions for people.

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

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.