

SAFETY DATA SHEET

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

SECTION 1 IDENTIFICATION

Product Name MICROCAT® - SH Biodegradable Wetting Agent

Identified uses Company

Formulated for use in soil cleanup and sludge processing operations.

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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
Eve Irritant	2A	H319

Hazard pictograms



Signal words

Hazard statements Harmful if swallowed (H302) Harmful in contact with skin (H312)

Harmful if inhaled (H332) Causes skin irritation (H315) Causes serious eye irritation (H319)

Precautionary statements P261 – Avoid breathing dust, fumes, mist, vapors, or spray.

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.

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

Further information Other hazards

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity Common name

MSDS Created: 03/99 Revision: 04/20/2020 SH Page 1 of 4 Synonyms concentrated nonionic surfactants

Hazardous Components

Chemical Name (Concentration) CAS-No

Non-Hazardous Components

Name CAS-No Secondary Alcohol Ethoxylate 84133-50-6

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 Do Not Induce Vomiting. Seek medical attention immediately.

Most important symptoms/effects, acute and delayed

Further information

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 Provide adequate ventilation.

procedures

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 Do not get in eyes. Avoid contact with skin, eyes, and clothing. Avoid

breathing vapors. Use adequate ventilation. Wash thoroughly after

handling

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 Respirator not required. Provide adequate ventilation.

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.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BASIC PHYSICAL AND CHEMICAL 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: LD ₅₀ rat – male: 1630-2394 mg/kg; female: 412 mg/kg. Skin Absorption LD ₅₀ 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 Exposure	Information Not Available
Specific Organ Toxicity – Repeated Exposure	Information Not Available
Aspiration Hazard	Information Not Available
General Remarks	Information Not Available

SECTION 12 ECOLOGICAL INFORMATION

Toxicity	Material is mo	Material is moderately toxic to aquatic organisms on an acute basis (LC_{50}/EC_{50} between 1 and 10 mg/L in most sespecies tested	
	Fish Acute & Prolonged toxicity		LC ₅₀ fathead minnow (Pimephales promelas), static, 96 h:
			3.2 – 3.6 mg/L
	Aquatic Invertebrate Acute Toxicity	ebrate Acute Toxicity	EC ₅₀ water flea Daphnia magna, static, 48 h, immobilization: 7.3 mg/L
Toxicity to microorganisms		roorganisms	EC ₅₀ bacteria, growth inhibition (cell density reduction), 16 h: > 1,000 mg/L
Persistence and degr	adability	Information Not Available	
Bioaccumulative pote	ential	Information Not Available	
Mobility in Soil		Information Not Available	

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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	UN3082
UN Proper Shipping Name	Environmentally Hazardous substance, liquid, NOS
Transport Hazard Class	Class 9
Packing Group (if applicable)	
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 Monera Technologies Corporation, Technical Department.