

# **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® - PH Buffer Blend

Identified uses Company Used to buffer acid buildup in soil, sludge, and groundwater bioremediation programs.

Monera Technologies Corporation 2201 Hangar Place, Suite 200

Allentown, PA 18109 Phone: (800) 627-3069 (484) 245-5232

www.moneratec.com

# **SECTION 2 HAZARD IDENTIFICATION**

ClassificationCategoryH-statementEye irritation2BH320Skin irritation2H315Corrosive to metals1H290

Hazard pictograms





Signal words Warning

Hazard statements Causes skin irritation (H315)

Causes eye irritation (H320)

May be corrosive to metals (H290)

Precautionary statements P234 – Keep only in original container.

P264 – Wash thoroughly after handling.

P280 – Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash 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 advice/attention.
P337 \_ P313 – If eye irritation persists: Get medical advice/attention.
P362 + P364 – Take off contaminated clothing and wash it before reuse.

P390 – Absorb spillage to prevent material damage.

P406 – Store in corrosive resistant container.

Further information Other hazards

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

Chemical Identity
Common name

Synonyms mixture of carbonate and bicarbonate salts

**Hazardous Components** 

Chemical Name (Concentration) CAS-No

Non-Hazardous Components

NameCAS-NoSodium bicarbonate144-55-8Sodium carbonate497-19-8

MSDS Created: 02/94 Revision: 04/20/2020 PH Page **1** of **4** 

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

Eye Mild to severe irritant to the eyes. May cause redness, irritation and/or conjunctivitis. In case of contact with eyes, flush eyes

with low pressure water for at least 15 minutes holding eyelids open. If irritation persists, seek medical attention.

Skin Mild to severe irritant of the skin. May cause intense destruction of abraded skin. It is recommended that prolonged direct

contact with skin be avoided. In case of contact with skin, wash skin with water for 15 minutes. Remove contaminated

clothing and wash.

Inhalation May cause irritation, sore throat and coughing if inhaled. 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

response exhibited.

Ingestion Ingestion of material may cause corrosion of gastric mucosa with sore throat and pain. May cause distention of the stomach,

possible rupture. Renal injury will occur over 1g/kg. If swallowed, drink 2-4 glasses of water. Induce vomiting or perform

gastric lavage if large amounts are ingested. Get medical attention.

Most important symptoms/effects, acute and delayed

Further information

## **SECTION 5 FIRE-FIGHTING MEASURES**

Suitable extinguishing media

Dry chemical, carbon dioxide, chemical foam or water fog
Specific hazards arising from the

Contain water runoff. Negligible hazard when exposed to flame.

chemical

Special protective actions for fire-fighters Self-contained breathing apparatus recommended for fire fighters if large amount is present.

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

Personal precautions, protective equipment, and Provide sufficient ventilation.

emergency procedures Environmental precautions

Methods and materials for containment and

cleaning up

Spilled product should be removed immediately to avoid formation of dust. Contain spill, sweep up avoiding airborne dust. Provide sufficient ventilation. Avoid wash down except

for small traces.

None

# **SECTION 7 HANDLING AND STORAGE**

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

Provide eyewash capability.

Conditions for safe storage, including any

incompatibilities

None

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Control Parameters**

Control i didiffection				
Name	CAS-No	TLV (ACGIH)	PEL (OSHA)	
Sodium bicarbonate	144-55-8	10 mg/m <sup>3</sup>		
Sodium carbonate	497-19-8	None established		

<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, or chemical goggles.

Skin Protection Wear long-sleeve shirt, trousers, safety shoes, 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.

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**BASIC PHYSICAL AND CHEMICAL PROPERTIES** 

Appearance White crystalline powder

**Odour** No odor

MSDS Created: 02/94 Revision: 04/20/2020 PH Page **2** of **4** 

Odour threshold Information not available Does Not Apply Ηα Melting point /Freezing Point 260°C (500°F) Initial Boiling point and boiling point range **Does Not Apply** Flash Point **Does Not Apply Evaporation rate** 1 (butylacetate = 1) 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) 7% at 0°C Partition coefficient: n-octanol/water **Does Not Apply** Information not available Auto-ignition temperature Information not available **Decomposition temperature** Viscosity **Does Not Apply** Other Physical/Chemical Properties Specific Gravity at  $25^{\circ}C - 2.2 - 2.5$  (H<sub>2</sub>O = 1)

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions and use.

Possibility of hazardous reactions None known

Conditions to avoid Exposure to strong acid can cause violent reaction with evolution of heat and carbon dioxide.

Exposure to hot aluminum can cause explosive reaction with evolution.

Exposure to ammonium and silver nitrate can cause explosive reaction upon heating.

Exposure to aromatic amine and a chloronitro compound can cause a reaction with evolution of heat.

Exposure to 2,4 dinitrotoluene can increase explosiveness.

Exposure to flourine can cause violent ignition.

Exposure to burning lithium releases radioactive sodium.

Exposure to phosphorus pentoxide can cause a highly exothermic reaction.

Exposure to hot sodium sulfide can cause an explosive reaction on exposure to water.

Exposure to sulfuric acid can cause a violent eruption.

Exposure to 2,4,6 trinitrotoluene can reduce explosion temperature.

Exposure to zinc can be corrosive.

Incompatible materials None known Hazardous decomposition products None known

# **SECTION 11 TOXOLOGICAL INFORMATION**

Information not available Acute toxicity Skin Corrosion/Irritation Mild Serious Eye Damage/Irritation Mild Large amounts will require medical attention. Respiratory or Skin Sensitization Ingestion Large amounts will require medical attention Germ Cell Mutagenicity Information not available Carcinogenicity Information not available Reproductive Toxicity Information not available Specific Target Organ Toxicity -Information not available Single Exposure Specific Organ Toxicity - Repeated Information not available Exposure **Aspiration Hazard** Information not available General Remarks Information not available

# **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity	Product degrades in time releasing plant nutrients. Increases pH of media.
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.

MSDS Created: 02/94 Revision: 04/20/2020 PH Page **3** of **4** 

#### **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	Chemicals not otherwise indexed (NOI) non-hazardous.

## **SECTION 15 REGULATORY INFORMATION**

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

OSHA: Not hazardous under 29 CFR 1910.1200

## **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.

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.

MSDS Created: 02/94 Revision: 04/20/2020 PH Page **4** of **4**