

## **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®-VNBAF2 Nutrients

Identified uses

Nutrient blend for biological air filters.

Company

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## **SECTION 2 HAZARD IDENTIFICATION**

Hazard Classification Category H-statement

Acute toxicity, Inhalation Not Classified Acute toxicity, Oral Not Classified Acute toxicity, Dermal Not Classified

Skin irritant, (category 2) May cause skin irritation H315 Eye irritant (category 2A) Causes serious eye irritation H319

Mutagenicity Unknown
Carcinogenicity Unknown
Reproductive toxicity Unknown

Hazard pictograms

Signal words Warning

Hazard statements Causes skin irritation (H315)

Causes serious eye irritation (H319)

Precautionary statements P264 – Wash thoroughly with soap and water after handling.

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do so. 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 before reuse.

Further information

Other hazards May aggravate pre-existing medical conditions.

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

Chemical Identity
Common name

**Synonyms** Water soluble nitrogen, phosphorus, potassium and micronutrient supplement for biological air

filters

**Hazardous Components** 

Chemical Name (Concentration)CAS-NoAmmonium nitrate6484-52-2Magnesium sulfate7487-88-9Monopotassium phosphate7778-77-0

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7757-79-1 Potassium nitrate

Non-Hazardous Components

CAS-No Name

None

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

Eye If in eyes, hold open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the

first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice.

Skin Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash affected area with mild soap and water.

Seek medical attention if irritation develops or persists.

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration,

preferably mouth-to-mouth, if possible. Call poison control center or doctor for further treatment advice.

If swallowed, call poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to

swallow. Do not induce vomiting unless told to by poison control center or doctor. Do not give anything by mouth to an

unconscious person.

Most important symptoms/effects, acute and delayed

**Further information** 

Ingestion

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

Suitable extinguishing media Water.

Specific hazards arising from the chemical Thermal decomposition may produce ammonia as well as toxic oxides of carbon, nitrogen

and other metal oxides.

Special protective actions for fire-fighters Wear self-contained breathing apparatus to fight large fires. Evacuate area. Flood area with

water to cool containers; apply water from a safe distance to avoid splattering of molten

material.

## **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.

Advice for emergency responders: protective equipment see section 8.

Keep out of lakes, streams, or ponds.

Avoid dusting or misting condition during clean-up. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to local, state, and federal regulations. Keep spills away from drinking water supplies. After spill clean-up, flush area with water. Read

label.

## **SECTION 7 HANDLING AND STORAGE**

Eyewash station available. Avoid container breakage. Avoid inhalation or contact with skin, Precautions for safe handling

> eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams, or ponds. KEEP OUT OF REACH OF CHILDREN.

Conditions for safe storage, including any

incompatibilities

Avoid container breakage. Store in a cool dry area in a closed container or package. Keep away from feed and food stuffs. Organic dusts are a weak explosion hazard. Not hazardous under normal storage and use conditions.

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

## **Control Parameters**

Name	% by Weight	TLV (ACGIH)	PEL (OSHA)
Ammonium nitrate	6484-52-2	10 mg/m <sup>3</sup> {3}	15 mg/m <sup>3</sup> {5}
Magnesium sulfate	7487-88-9	10 mg/m <sup>3</sup> {3}	15 mg/m <sup>3</sup> {5}
Monopotassium sulfate	7778-77-0	10 mg/m <sup>3</sup> {3}	15 mg/m <sup>3</sup> {5}
Potassium nitrate	7757-79-1	10 mg/m <sup>3</sup> {3}	15 mg/m <sup>3</sup> {5}

<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 Not required for routine use. High airborne dust levels or mists of product dissolved in liquid may be irritating - use

chemical goggles.

**Skin Protection** Not required for routine use. High airborne dust levels or mists of product dissolved in liquid may be irritating –

natural rubber gloves; if prolonged or repeated use irritates skin.

MSDS Created: 12/99 Revision: 04/20/2020 VNBAF2 Page 2 of 4 Respiratory protection If airborne dust levels are high and irritation occurs, use NIOSH/MSHA approved respirator for dusts, mists, and fumes to reduce exposure to acceptable levels.

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	Mixture, primarily white or off-white prills and granules
Odour	No significant odor
Odour threshold	Information not available
pH	Does Not Apply
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	Does Not Apply
Vapour density	Does Not Apply
Relative density	Information not available
Solubility (ies)	Very soluble in 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	Decomposes on heating

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity Stable when stored under normal conditions and use.

Possibility of hazardous reactions

Conditions to avoid High levels of moisture; this product is very soluble and will turn to liquid solution if it comes in

contact with moisture.

Incompatible materials Liquid fuels

Hazardous decomposition products Loses chemically combined water upon heating; forms metaboric acid (HBO<sub>2</sub>) at 212°F - 221°F,

then pyroboric acid (H<sub>2</sub>B<sub>4</sub>O<sub>7</sub>) at 285°F - 320°F, and Boric anhydride at higher temperatures.

## **SECTION 11 TOXOLOGICAL INFORMATION**

Acute toxicity	Inhalation of dust may cause respiratory allergy in susceptible individuals.
Skin Corrosion/Irritation	Mild
Serious Eye Damage/Irritation	Mild
Respiratory or Skin Sensitization	May cause respiratory allergy in susceptible individuals: sensitization (shortness of breath, wheezing, and labored coughing) take individual to emergency room.
Ingestion	May cause mouth and throat irritation and/or gastric disturbance.
Germ Cell Mutagenicity	Information not available
Carcinogenicity	Crystalline silica probably carcinogenic 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	Ingestion - Possible nausea, vomiting, diarrhea and possible excitement and convulsions Eye damage/irritation - May cause reversible corneal opacity along with irritation, tearing, and blinking as foreign body in the eye.  Skin corrosion/irritation - Mild irritation Respiratory or Skin sensitization - May irritate nose, throat, and lungs.  Prolonged exposure may cause; gastrointestinal irritation, muscular weakness and cyanosis (blue-tinged skin); may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia, and kidney injury. Prolonged exposure over very long period of time (several years, for example) May cause damage to central nervous system or affect the lung, liver or kidney.

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## **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity	Keep Out of Lakes, Streams, or Ponds.
Persistence and degradability	Information not available
Bioaccumulative potential	Information not available
Mobility in Soil	Information not available
Other adverse effects	Information not available

## **SECTION 13 DISPOSAL CONSIDERATIONS**

Methods Apply to field as fertilizer. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance

with applicable local, state and federal regulations.

Containers n/a

## **SECTION 14 TRANSPORTATION INFORMATION**

UN Number	n/a
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 Other	Not DOT regulated May not apply to all shipping situations. Consult 49 CFR, or appropriate Dangerous Goods Regulations for additional description requirements and mode-specific or quantity-specific shipping regulations.

## **SECTION 15 REGULATORY INFORMATION**

Contact local authorities for proper disposal of large quantities of unused fertilizer.

## **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 Monera Technologies Corporation, Technical Department.

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