



SAFETY DATA SHEET

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

SECTION 1 IDENTIFICATION

Product Name	MICROCAT® - NPC Time-Released Nutrient Blend
Identified uses	For use in stimulating biological activity in soils and sludges.
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
Eye irritation	2B	H320
Skin irritation	2	H315

Hazard pictograms



Signal words

Warning

Hazard statements

Causes eye irritation (H320)

Causes skin irritation (H315)

Precautionary statements

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.

Further information

Other hazards

Hypersensitive individuals are more at risk for sensitization.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity

Common name

Synonyms

Nitrogen and phosphorus salts in a time release form

Hazardous Components

Chemical Name (Concentration)

CAS-No

Nitroform bluechip

9011-05-6

Triple super phosphate

65996-95-4

Non-Hazardous Components

Name

CAS-No

SECTION 4 FIRST-AID MEASURES

Eye	Product may cause eye irritation. Direct contact with eyes should be avoided. In case of contact with eyes, flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.
Skin	It is recommended that prolonged direct contact with skin be avoided. In case of contact with skin, wash skin with soap and water. Remove contaminated clothing and wash.

Inhalation Remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response exhibited.
 Ingestion Ingestion of material may cause gastric disturbance, if swallowed drink large amount 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 chemical Contain water runoff as ingredients may be toxic to aquatic organisms. May generate ammonia in a fire.
 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 emergency procedures Provide sufficient ventilation.
 Environmental precautions None
 Methods and materials for containment and cleaning up Spilled product should be removed immediately to avoid formation of dust. Contain spill, sweep up or vacuum, avoiding airborne dust.

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

Name	CAS-No	TLV (ACGIH)	PEL (OSHA)
none			

* Specific limits not set for these chemicals. Limits are shown for Particles Not Otherwise Regulated (PNOR) or Particles Not Otherwise Classified (PNO). 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	Blue granular powder
Odour	Slight ammonia 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)	Minimal solubility in water, slowly dissolves with time
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	None known
Conditions to avoid	Extreme heat, contact with fuels and other organic or combustible materials. Active metals, strong reducing agents.
Incompatible materials	Strong alkalis and reducing agents, active metals (aluminum and magnesium), ammonia, organic and combustible materials, strong oxidizers, chlorine compounds.
Hazardous decomposition products	None known

SECTION 11 TOXOLOGICAL INFORMATION

Acute toxicity	Information not available
Skin Corrosion/Irritation	Mild
Serious Eye Damage/Irritation	Mild
Respiratory or Skin Sensitization	Mild
Ingestion	May cause severe gastric disturbances, sore throat.
Germ Cell Mutagenicity	Information not available
Carcinogenicity	Information not available
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	Keep out of lakes, streams or ponds due to possible toxicity to aquatic organisms.
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Information not available
Mobility in Soil	Information not available
Other adverse effects	Product degrades with time releasing plant nutrients. May stimulate algae growth.

SECTION 13 DISPOSAL CONSIDERATIONS

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

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.

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 Bioscience, Inc. Technical Department.