

#### **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®-XNL / XNC Ammonia Oxidizing Bioformula

Identified uses Used in biological wastewater treatment plants receiving wastes containing ammonia.

Company Bioscience, Inc.

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#### **SECTION 2 HAZARD IDENTIFICATION**

Hazard Classification Category H-statement
Acute Toxicity – Inhalation 5 H333

Hazard pictograms

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Signal words Warnin

Hazard statements May be harmful if inhaled (H333)

Precautionary statements P304 + P312 – IF INHALED: Call a POISON CENTER or doctor if feeling unwell.

Precautionary statements
Further information

Other hazards

May aggravate asthmatic, bronchial systems

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

Chemical Identity Common name

**Synonyms** Naturally occurring microbial suspension in water.

**Hazardous Components** 

Chemical Name (Concentration)

None

Skin

**Non-Hazardous Components** 

Name CAS-No Viable bacterial cultures (nitrifying) in water (> 95%) 7732-18-5

Ammonia salts (Trace) Nitrate salts (Trace)

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

Eye Product is not known to cause eye irritation. However, 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 15 minutes. If irritation persists, seek medical attention. May lead to opportunistic infection of broken skin. In case of contact with skin, wash skin with soap and water. Remove

CAS-No

contaminated clothing and wash. If irritation persists seek medical attention.

Inhalation May aggravate asthmatic, bronchial systems. If inhaled, 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, rinse mouth and throat with tap water. Seek medical attention.

Most important symptoms/effects, acute and delayed

Further information

MSDS Created: 03/99 Revision: 03/21/2018 XNL/XNC Page 1 of 4

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

Suitable extinguishing media

Specific hazards arising from the chemical Special protective actions for fire-fighters

Dry chemical, CO<sub>2</sub>, chemical foam or water fog

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

Personal precautions, protective equipment, and emergency

procedures

**Environmental precautions** 

Methods and materials for containment and cleaning up

Wash down area with detergent and thoroughly rinse. Dispose to treatment

plant or soil.

## **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling

Safety glasses or eye shield recommended.

Conditions for safe storage, including any incompatibilities

No special requirements.

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

#### **Control Parameters**

Name	CAS-No	TLV (ACGIH)	PEL (OSHA)
Viable bacterial cultures (nitrifying) in water	7732-18-5	None established	None Established
Ammonia salts		35 mg/m³ (ammonia)	Ammonia salts
Nitrate salts		5 mg/m³ (nitric acid)	Nitrate salts

<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
Skin Protection Not required

Respiratory protection None 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.

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

BASIC PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Light pink to red liquid
Odour	mild odor
Odour threshold	Information not available
pH	6 – 8
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)	99%
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

MSDS Created: 03/99 Revision: 03/21/2018 XNL/XNC Page **2** of **4** 

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity Stable under normal use and conditions.

Conditions to avoid Freezing or temperature greater than 100°F (40°C).

Incompatible materials Strong acids, bases or oxidizers. Hazardous decomposition products Information not available

## **SECTION 11 TOXOLOGICAL INFORMATION**

Acute toxicity	Information not available
Skin Corrosion/Irritation	May exhibit dermal sensitivity.
Serious Eye Damage/Irritation	May be infected by viable organisms.
Respiratory or Skin Sensitization	Coughing, shortness of breath may occur.
Ingestion	Gastric disturbance on massive ingestion.
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	May experience allergic reaction on contact.

#### **SECTION 12 ECOLOGICAL INFORMATION**

Toxicity	Information not available
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 all wastes in accordance with all Federal, state and local agencies.

Containers n/a

# **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**

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

MSDS Created: 03/99 Revision: 03/21/2018 XNL/XNC Page 3 of 4

## **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 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.

MSDS Created: 03/99 Revision: 03/21/2018 XNL/XNC Page 4 of 4