

## SAFETY DATA SHEET

### SECTION 1 - SUBSTANCE IDENTITY AND COMPANY INFORMATION

- 1.1 PRODUCT NAME:** NODOKARE™ LIQUID SEAWEED CONCENTRATE 0-0-5
- 1.2 COMPANY INFORMATION:** Koppert Biological Systems, Inc.  
1502 Old US 23  
Howell, MI 48843
- 1.3 CONTACT INFORMATION:** **Tel:** +1 (810) 632-8750  
**Fax:** +1 (810) 632-8771  
**E-mail:** info@koppert.com
- 1.4 EMERGENCY CONTACT:** Poison Control Center 1-800-222-1222

### SECTION 2 - HAZARD IDENTIFICATION

According to Federal Register / Vol. 77, No. 58 / Monday March 26,2023 / Rules and Regulations

**2.1 Classification of the substance or mixture**

GHS US classification: Not classified.

**2.2 GHS Label elements, including**

Characteristic

**2.3 Other Information / Potential Hazards:**

None known based on supplied information.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Natamycin	7681-93-8	13.459
Glycerol	56-81-5	>20 - >30
Other Ingredients		**

\*\* Exact concentration of components withheld as a trade secret.  
Values are not product specifications.

## SECTION 4 - FIRST AID MEASURES

### 4.1 If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

### 4.2 If in eyes:

- Hold eye open and rinse gently with water for 15-30 minutes.
- Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

### 4.3 If on skin or clothing:

- Remove contaminated clothing and shoes.
- Rinse skin immediately with plenty of water for 15-30 minutes.
- Call a poison control center or doctor for treatment advice.

### 4.4 If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or get medical help, then give artificial respiration, preferably mouth-to-mouth with the aid of a pocket mask equipped with a one-way valve.
- Call a poison control center or doctor for treatment device.

### 4.6 Most important symptoms and effects, both acute and delayed:

- Causes temporary eye irritation.

### 4.7 Indication of any immediate medical attention and special treatment needed:

- Removal of exposure followed by symptomatic and supportive care. No other information available.

## SECTION 5 - FIRE FIGHTING MEASURES

### 5.1 Flammable properties:

- Not flammable

### 5.2 Extinguishing media:

- Water fog, dry chemical, foam and carbon dioxide (CO<sub>2</sub>)

### 5.3 Special material hazards

- Under fire conditions, may emit irritating vapors, carbon dioxide and carbon monoxide.

### 5.4 Firefighting measures:

- Use extinguishing media appropriate for surrounding fire. Prevent contaminated firefighting waters and spillage from entering sewers, drains and waterways.

### 5.5 Protective equipment for firefighters:

- Wear full protective firefighting gear including self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent).

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions:

Wear protective gloves / clothing and eye protection. Avoid contact eyes, skin, and clothing. Ensure adequate ventilation.

### 6.2 Environmental precautions:

Prevent entry into waterways, lakes, sewers, basements, or confined areas. Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and material for containment:

Dike to contain spill with inert material (e.g. sand, silica gel, or binder).

### 6.4 Methods for cleanup:

Soak up with inert absorbent. Pick up and transfer to properly labeled containers for disposal.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

The following recommendations for exposure controls are intended for the manufacture, formulation, and packaging of this material. Commercial applicators and/or farm applications should refer to the product for personal protection equipment.

### 7.2 Conditions for safe storage:

Store and handle in accordance with good industrial hygiene practices. Keep container tightly closed. Store in a cool and well-ventilated place. Store in original labeled container. Store away from direct sunlight between 40°F and 90°F.

### 7.3, including storage situations:

Separate pesticides during storage to prevent cross-contamination of other pesticides, fertilizers, food, and feed.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Guidelines:

The following recommendations for exposure controls are intended for the manufacture, formulation, and packaging of this material. Commercial applicators and/or on-farm applications should refer to the product label for personal protection equipment.

Workplace Control Parameters	CAS #	Exposure Guidelines
Glycerol	56-81-5	TWA 5mg/m <sup>3</sup> OEL mists, respirable (OSHA) Table Z-1  TWA 15 mg/m <sup>3</sup> OEL Air Contaminant Limit (OSHA) Table Z-1  TLV – TWA 10mg/m <sup>3</sup> (ACGIH)

### 8.2 Engineering controls:

Emergency eye wash. Ensure adequate ventilation or provide local exhaust.

### 8.2 Personal Protective Equipment

Follow personal protective equipment manufacturers recommendations for use, cleaning and maintenance.

### 8.3 Eye protection:

Safety glasses with side shields.

### 8.4 Body / skin protection:

Long sleeved shirt, long pants, shoes plus socks. Wash work clothing before reuse.

### 8.5 Hand protection:

Waterproof gloves / hand protection.

### 8.4 Respiratory protection:

If handling without sufficient ventilation or excess airborne exposure, wear a dust / mist filtering respirator.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Off-white
Odor:	Characteristic
pH:	8.05
Melting / freezing point:	No information available
Boiling Point:	No information available
Flash Point:	>200.6°F / 93.7°C
Explosive properties:	No information available
Autoignition temperature:	No information available
Vapor pressure:	No information available
Oxidizing properties:	No information available
Relative density:	1.1145 g/cm <sup>3</sup>
Solubility:	Miscible
Viscosity:	130 cST at 25°C

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity / chemical stability:

Stable under normal temperature and conditions.

### 10.2 Possibility of hazardous reactions:

Not expected under normal conditions of handling and use.

### 10.3 Conditions to avoid:

No information available

### 10.4 Incompatible materials:

Strong oxidizing agents.

### 10.5 Hazardous decomposition products:

No information available.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on likely routes of exposure:

<b>Inhalation:</b>	Data not available. Avoid inhalation.
<b>Eye Contact:</b>	Data not available. Avoid eye contact.
<b>Skin Contact:</b>	Data not available. Avoid skin contact.
<b>Ingestion:</b>	Data not available. Avoid ingestion.
<b>Skin Absorption:</b>	Data not available. Avoid skin absorption.

### 11.2 Product numerical measures of toxicology:

<b>Acute oral LD<sub>50</sub>:</b>	Rat >5000 mg/kg
<b>Acute dermal LD<sub>50</sub>:</b>	No information available
<b>Acute inhalation LC<sub>50</sub>:</b>	Rat >2.23 mg/L
<b>Eye irritation:</b>	Slight irritation
<b>Skin irritation:</b>	Slight irritation
<b>Sensitization:</b>	Not a sensitizer (mice)

### 11.3 Delayed and immediate effects as well as chronic effects from short- and long-term exposure:

#### Component information:

Natamycin (CAS #: 7681-93-8)

<b>Acute oral LD<sub>50</sub>:</b>	Rat >5000 mg/kg
<b>Sensitization: (experience with human exposure)</b>	No information available
<b>Mutagenic Effects:</b>	No information available
<b>Carcinogenicity:</b>	Not listed on NTP, IARC, or OSGA lists
<b>Reproductive/Developmental effects:</b>	No information available.

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1. Environmental Hazards:

Keep out of any body of water

### 12.2. Ecotoxicity:

Natamycin (CAS#: 7681-93-8) LDC<sub>50</sub>: >2000 mg/kg bw *Avian spp.*

### 12.3. Persistence and degradability:

No information available

### 12.4. Bioaccumulation:

No information available

### 12.5. Mobility:

No information available

## SECTION 13 - DISPOSAL CONSIDERATIONS

### 13.1 Product Disposal

Wastes resulting from the use of this product must be disposed in accordance with applicable Federal, State or local regulations. Keep out of drains, sewers, ditches and water ways.

### 13.2 Container Disposal

Refer to product label for container disposal. Do not reuse containers.

## SECTION 14 - TRANSPORT INFORMATION

### US DOT

Not classified as a dangerous good under transport regulations.

## SECTION 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. There requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required by the pesticide label.

CAUTION. Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

<b>TSCA:</b>	TSCA exempt; regulated under FIFRA.
<b>SARA 311/312:</b>	Refer to section 2 for GHS hazards.
<b>SARA 313:</b>	No substances listed.
<b>CERCLA:</b>	No substances listed.

# Koppert

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**U.S. State Regulations:**

**State Right-to-Know Regulations:** Pennsylvania Right-to-know; Water (CAS #:7732-18-5); Glycerol (CAS#: 56-81-5)

**SECTION 16 - OTHER INFORMATION**

NFPA Ratings:	Health	Fire	Instability
	1	0	0