

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier						
	Product Identifier	: Nodusmicin					
	Product Number	: N040					
	CAS Number	: [76265-48-0]					
1.2	Relevant identified uses of the substance or mixture and uses advised against						
	Identified Uses	: For research use only - restricted to professional users.					
	Uses Advised Against	: Not for human or animal use					
1.3	Details of the supplier of the safety data sheet						
	Company	: TOKU-E Company					
		715 W Orchard Dr. Suite 3					
		Bellingham, WA 98225					
	Phone Number	: (360) 734-1789					
	E-mail Address	: info@toku-e.com					
	Safety Data Sheet Issued by	: TOKU-E Company (USA)					
1.4	Emergency telephone number						
	Emergency Phone Number (Internat.)	: +1 (352) 353-3500 (INFOTRAC, 24-Hour Number)					
	Emergency Phone Number (US Only)	: 1 (800) 535-5053 (INFOTRAC, 24-Hour Number)					
SECTION 2: HAZARDS IDENTIFICATION							
2.1	Classification of the substance or m	ixture					
	GHS classification in accordance with 29 CFR 1910 (OSHA HCS)						
	Acute Toxicity - Oral (Category 5), H303						
	For the full text of the H-Statements mentioned in this section, see Section 16.						
2.2 GHS label elements, including precautionary statements							
	Pictogram(s): None Signal Word: Warning						
	Hazard Statement(s)						
	H303 May be harmful if s	vallowed					

Precautionary Statement(s)

P312 Call a POISON CENTER/doctor if you feel unwell.

2.3 Hazards otherwise not classified (HNOC) or not covered by GHS None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonym(s)	: U 59761
Formula	: C ₂₃ H ₃₄ O ₇
Molecular weight	: 422.51 g/mol

Hazardous components Component Classification Concentration Nodusmicin CAS Number [76265-48-0] Acute Tox. 5, H303 ≤ 100% EC Number Not available Acute Tox. 5, H303 ≤ 100%

For the full text of the H-Statements mentioned in this section, see Section 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General information

Consult a doctor/physician if exposed - additional medical care may be required. Show this safety data sheet to the medical provider.

If inhaled

If inhaled, move to fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash skin thoroughly with soap and water. Remove any contaminated clothing. Consult a physician.

In case of eye contact

Flush eye with water. After initial flush, remove any contact lenses and continue flushing for at least 15 minutes.

If swallowed

Rinse mouth with water. Immediately call a doctor, physician, or poison control center. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguising media No data available

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Products Carbon oxides

5.3 Advice for firefighters Wear self-contained breathing apparatus if necessary.

5.4 Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed in Section 7 and 8. Use personal protective equipment. Avoid breathing dust, vapors, mist or gas. Avoid direct contact with spilled substances. Ensure adequate ventilation. Avoid dust formation. For personal protection see Section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Refer to section 8 for exposure control and personal protection. Refer to section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautionary statements see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Protect from humidity. Recommended storage temperature: -20 °C Protect from light.

Incompatibilities:

Strong oxidizing agents

7.3 Specific end use(s) Refer to section 1.2

Refer to section 1.2

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters:

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal Protective Equipment (PPE):

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye/Face protection

Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Body protection

Wear protective clothing. The type of protective equipment must be selected according to the concentration of the dangerous substance at the specific work place.

Environmental exposure controls

Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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Appearance	:	White solid		
Odor	:	No data available		
Odor Threshold	:	No data available		
рН	:	No data available		
Melting Point/Freezing Point	:	No data available		
Initial Boiling Point and Range	:	No data available		
Flash Point	:	No data available		
Evaporation rate	:	No data available		
Flammability (solid, gas)	:	No data available		
Upper/Lower Flammability or				
Explosive Limits	:	No data available		
Vapour Pressure	:	No data available		
Vapour Density	:	No data available		
Relative Density	:	No data available		
Solubility(ies)	:	Limited water solubility. Soluble in ethanol, methanol, DMF or DMSO.		
Partition Coefficient: n-octanol/water	:	No data available		
Auto-Ignition Temperature	:	No data available		
Decomposition Temperature	:	No data available		
Viscosity	:	No data available		
Explosive Properties	:	No data available		
Oxidising Properties	:	No data available		

9.2 Other safety information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions No data available

- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agents
- **10.6 Hazardous decomposition products** No data available

See Section 5 for hazardous combustion products.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

No data available

Skin Corrosion/Irritation

No data available

Serious Eye Damage/ Eye Irritation

No data available

Respiratory or Skin Sensitization

No data available

Germ Cell Mutagenicity

No data available

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by the International Agency for Research on Cancer Monograph.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by the National Toxicology Program.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by the Occupational Health and Safety Association.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity: Single Exposure No data available

Specific Target Organ Toxicity: Repeated Exposure No data available

Aspiration Hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

No data available

In the absence of complete ecological information, treat product as environmentally hazardous. Use proper storage, handling, and disposal to prevent unintentional release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable products to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Avoid disposal of material in drains or sewers.

Contaminated Packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

SECTION 15: REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312.

Massachusetts Right to Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H303 May be harmful if swallowed

Further information

Revision Date: 2018-08-23

The above information is based upon the present state of our knowledge and is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information is believed to be correct but does not purport to be all inclusive. It does not represent any guarantees of the properties of the product. TOKU-E Company shall not be held liable for damage or injury resulting from contact, handling, or storage of the above product.