

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Nourseothricin - Solution

NTC or clonNAT

sterile ready-to-go stock solution

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: Nourseothricin (NTC) - Solution  
Catalog Number: AB-101S;AB-101L;AB-101-10ML;AB-101-50ML  
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### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP).

#### Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### Other hazards

none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Nourseothricin dihydrogen sulfate

Synonyms: Streptothricin components C, D, E and F (mixture), 3aS-[2(R\*),3aa,7aβ]-2-[[4-O-(Aminocarbonyl)-2-deoxy-2-[[3,6-diamino-1-oxo-hexyl)-amino]-β-Dgulopyranosyl]amino]-3,3a,5,6,7a hexahydro-7-hydroxy-4H-imidazo-[4,5-c]pyridin-4-on dihydrogen sulfate (Streptothricin F)

Formula: C<sub>19</sub>H<sub>34</sub>N<sub>8</sub>O<sub>8</sub> · H<sub>2</sub>SO<sub>4</sub> (Streptothricin F)

Molecular Weight: 600.6 g/mol (Streptothricin F)

CAS-No.: 96736-11-7

EC number:

Classification: Acute Tox. 4, H302

Skin Irrit.2, H315

Eye Irrit.2, H319

STOT SE 3, H335

Concentration: 100 mg/ml of sterile filtrated Nourseothricin in water

### 4. FIRST AID MEASURES

#### General advice:

Immediately remove any contaminated clothing. If problems occur, consult a physician. Show this material safety data sheet to the doctor in attendance.

#### After skin contact:

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Immediately wash skin with soap and plenty of water. If skin irritation continues, consult a physician.

### After swallowing:

Rinse mouth with water, drink plenty of water and induce vomiting provided the person is conscious. Never give anything orally to an unconscious person. Consult a physician.

### After inhalation:

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Consult a physician in case of complaints.

### After eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam. Do not use water jet.

### Specific hazards arising from the chemical:

No data available

### Special firefighting Procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes if necessary.

### Unusual Fire and Explosions Hazards:

Emits Toxic Fumes (NO<sub>x</sub>, SO<sub>x</sub>) under Fire Condition.

Flash point: N/A

Autoignition Temp: N/A

Flammability: N/A

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear protective equipment. Keep unprotected persons away. Avoid dust formation. Wash contaminated clothing before reuse.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Absorb on sand or vermiculite and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

## 7. HANDLING AND STORAGE

### Handling

Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

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### User Exposure:

Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or apr.).

### Storage

Keep container tightly closed. Protect from atmospheric humidity.

Recommended storage temperature: Store at -20 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures:

Ensure adequate ventilation and cleanable resistant tightly sealed working surfaces.

### Respiratory protection:

Required if aerosols can be formed. Hand protection: Handle with gloves to prevent skin contact.

### Eye protection:

Wear chemical safety goggles to prevent eye contact.

### Skin and body protection:

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### General Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form: liquid

### Safety data

pH: 6.3  
Melting point: no data available  
Boiling point: 100°C  
Flash point: The product is not flammable.  
Ignition temperature: no data available  
Lower explosion limit: The product is non-explosive.  
Upper explosion limit: The product is non-explosive.  
Water solubility: no data available

## 10. STABILITY AND REACTIVITY

### Storage stability

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Stable under recommended storage conditions.

### Reactivity:

No dangerous reactions expected.

### Chemical stability:

Stable under recommended storage conditions for 12 months at -20°C.

### Possibility of hazardous reactions:

No data available

### Conditions to avoid:

High concentrations of acids or bases, strong oxidizing agents, heat, moisture, light.

### Incompatible materials:

No data available

### Hazardous decomposition products:

Carbon monoxide, Carbon dioxide, Nitrogen oxides (under fire conditions).

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Intravenous rat: 20.8 mg/kg

LD50 oral rat: 1185 mg/kg

### Serious eye damage/irritation:

Irritating effect.

### Respiratory or skin sensitization:

Irritant to skin and mucous membranes. Irritations in the respiratory tract, coughing, dyspnea.

### Germ cell mutagenicity:

No data available

### Carcinogenicity:

No data available

### Reproductive toxicity:

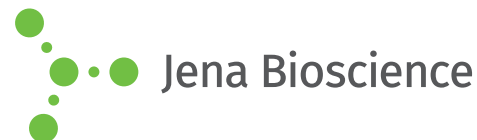
No data available

### Additional information:

RTECS: RD4240000

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### Further information:

To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

No data available

### Persistence and degradability:

Biodegradability

### Bioaccumulative potential:

No data available

### Mobility in soil:

No data available

### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dispose as hazardous waste.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### 14.1 UN number

Not dangerous goods

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

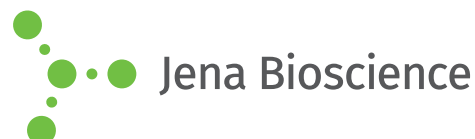
### 14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: Not dangerous goods

### 14.4 Packaging group

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ADR/RID/IMDG/IATA: Not dangerous goods

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

see chapter 6 - 8

## 15. REGULATORY INFORMATION

### OSHA Hazards:

Harmful by ingestion, causes irritation of skin and eyes, may cause respiratory irritation.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:

No data available

### 15.2 Chemical Safety Assessment:

No data available

### 15.3 Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

## 16. OTHER INFORMATION

### Further information

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