

**SAFETY DATA SHEET**

Create Date: 2020-09-03

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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : Nalidixic Acid  
Cat. Number : ZXB-03-116  
CAS number : 389-08-2  
Synonyms : 1,4-Dihydro-1-ethyl-7-methyl-1,8-naphthyridin-4-one-3-carboxylic acid;  
: 1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : For research and laboratory use only.

**1.3 Details of the supplier of the safety data sheet**

Address : Hinter den Gärten 56  
89173 Lonsee  
Deutschland  
  
Email : info@zellx.de  
Phone : +49(0)731 55211521  
Fax : +49(0)731 55211719

**1.4 Emergency telephone number**

Emergency phone : +49(0)731 55211521

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of substance or mixture**

Acute toxicity, Oral (Category 4), H302

**2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 4), H302

**2.3 Label elements and precautionary statements**

Pictogram : 

Signal word : Warning

Hazard statement(s) : H302 - Harmful if swallowed.

Precautionary statement(s) : P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P301+312+330 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
P501 - Dispose of contents/container to an approved waste disposal plant.

#### 2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

Photosensitizer.

#### 2.5 NFPA Rating

Health hazard : 1

Fire hazard : 0

Reactivity hazard : 0

#### 2.6 HMIS Rating

Health hazard : 1

Chronic health hazard : \*

Reactivity hazard : 0

Flammability : 0

Physical hazard : 0

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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#### 3.1 Substances

Substance	CAS#	EC#	Concentration
Nalidixic acid M.F: C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> M.W: 232.24 g/mol	389-08-2	206-864-7	<= 100 %

#### 3.2 Hazardous components & classification

Acute Tox. 4; H302

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### SECTION 4: FIRST AID MEASURES

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#### 4.1 Description of first aid measures

##### General advice

Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel. If product is spilled or leaked, evacuate area.

##### In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

##### In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

##### In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

##### In case of ingestion

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water. Consult a physician if symptoms are severe or persistent.

#### **4.2 Most important symptoms and effects, both acute and delayed**

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No special treatment indicated. Provide treatment in accordance with exhibited systems.

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### **SECTION 5: FIREFIGHTING MEASURES**

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#### **5.1 Suitable extinguishing media**

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

#### **5.2 Unsuitable extinguishing media**

No known unsuitable extinguishing media.

#### **5.3 Special hazards arising from the substance**

Carbon oxides, nitrogen oxides (NO<sub>x</sub>).

#### **5.4 Advice for firefighters**

Wear protective gear, such as self-contained breathing apparatus, if necessary.

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

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#### **6.1 Personal precautions, protective equipment and emergency procedures**

Provide suitable ventilation. Use any necessary personal protective equipment. Avoid contact with skin and eyes, and avoid creation and inhalation of vapor or dust. Keep all unnecessary personnel away.

**For personal protection see section 8**

#### **6.2 Environmental precautions**

Prevent product from entering public sewers and waterways.

#### **6.3 Methods and material for containment and cleaning up**

Sweep up any spilled product. Keep in suitable, closed containers for disposal.

**For proper disposal see section 13**

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### **SECTION 7: HANDLING AND STORAGE**

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#### **7.1 Precautions for safe handling**

Provide suitable ventilation. Wear any necessary personal protective equipment.

**For precautions see section 2**

#### **7.2 Conditions for safe storage, including any incompatibilities**

Storage conditions : Store upright, closed container in arid, ventilated environment.  
Storage Temperature: 2-8°C  
Storage class (TRGS 510): Non Combustible Solids

Incompatible materials : Strong oxidizing agents are incompatible with this product.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

This product is not known to contain any substances with occupational exposure limit values.

### 8.2 Engineering controls

Follow good industrial hygiene and safety practices when handling product.

### 8.3 Personal protective equipment

Eye/face protection : Use only government-approved safety glasses with side-shields.

Skin protection : Use gloves when handling product. Inspect gloves before use to ensure suitability for use. Remove without exposing skin to the gloves outer surface. Discard used gloves according to all pertinent laws and/or current good practices (cGXP). Wash hands with soap and water.

Body protection : Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentration and amount of substance to be handled.

Respiratory protection : Use only approved respirators and components which comply with CDC and NIOSH (US) or CEN (EU) regulations. Required only when vapors or aerosols are created.

Control of environmental exposure : Prevent product from entering the environment, especially through public sewers or waterways.

General hygiene considerations : Comply with general industrial hygiene practice guidelines.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

- a) Appearance : Beige
- b) Physical states : Solid
- c) Odor : Not available
- d) Odor threshold : Not available
- e) Melting point : 227-229°C
- f) Boiling point range : Not available
- g) pH : Not available
- h) Density : Not available
- i) Flash point : Not available
- j) Evaporation rate : Not available
- k) Flammability : Not available
- l) Upper/lower flammability or explosive limits: : Not available
- m) Vapor pressure : Not available
- n) Vapor density : Not available

- o) Relative density : Not available
- p) Water solubility : Not available
- q) Partition coefficient:n-octanol/water : log Pow: 1.41
- r) Autoignition temperature : Not available
- s) Decomposition temperature : Not available
- t) Kinematic viscosity : Not available
- u) Explosive properties : Not available
- v) Oxidizing properties : Not available
- w) Solubility in other solvents : Not available
- x) Surface tension : Not available

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No special reactivity is known.

### 10.2 Chemical stability

Product is stable when stored and used as recommended.

### 10.3 Stability note(s)

No special or unusual instability known.

### 10.4 Polymerization

No known polymerization.

### 10.5 Possibility of hazardous reactions

No hazardous reactions are known.

### 10.6 Incompatible materials

Strong oxidizing agents are incompatible with this product.

### 10.7 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Acute toxicity

LD50 Oral : Mouse - 572 mg/kg

LD50 Dermal : No toxicity data available.

LC50 Inhalation : No toxicity data available.

### 11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

### 11.3 Serious eye damage/eye irritation

No eye damage/irritation data available.

### 11.4 Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in certain individuals.

### 11.5 Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

### 11.6 Carcinogenicity

IARC : Product and components are not regulated by the IARC.

ACGIH : Product and components are not regulated by the ACGIH.

NTP : Product and components are not regulated by the NTP.

OSHA : Product and components are not regulated by OSHA.

### 11.7 Reproductive toxicity

Laboratory experiments have shown teratogenic effects.

### 11.8 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

### 11.9 Specific target organ toxicity – repeated exposure

No specific organ toxicity data available.

### 11.10 Aspiration hazard

No aspiration hazard data available.

### 11.11 Additional Information

RTECS: QN2885000.

Effects due to ingestion may include: Gastrointestinal disturbance, nausea, dizziness, headache, and hyperglycemia.

Stomach - Irregularities - Based on Human Evidence

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## SECTION 12: ECOLOGICAL INFORMATION

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### 12.1 Toxicity

No ecological toxicity data available.

### 12.2 Aquatic toxicity

No aquatic toxicity data available.

### 12.3 Persistence and degradability

No persistence/degradability data available.

### 12.4 Bioaccumulative potential

No bioaccumulation data available.

### 12.5 Mobility in soil

No soil mobility data available.

### 12.6 Results of PBT and vPvB assessment

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

### 12.7 Other adverse effect

No other adverse effect data available.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 13.1 Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult and adhere to local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 13.2 Packaging

Packaging should be disposed of in the same manner as unused product.

### 13.3 Recommendation

Disposal must be made according to official regulations.

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## SECTION 14: TRANSPORTATION INFORMATION

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### 14.1 DOT (US)

Not a dangerous good under DOT(US) regulations.

### 14.2 IMDG

Not a dangerous good under IMDG regulations.

### 14.3 IATA

Not a dangerous good under IATA regulations.

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## SECTION 15: REGULATORY INFORMATION

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### 15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

### 15.2 Clean water act (CWA)

No chemicals are present in this product that are subject to regulation under the Clean Water Act.

### 15.3 Right to know components

Massachusetts : No chemicals are present which require disclosure under the Massachusetts Right to Know Act.

Pennsylvania : Nalidixic acid CAS No.: 389-08-2

New Jersey : Nalidixic acid CAS No.: 389-08-2

California  
proposition 65  
components : WARNING! This product contains a chemical known to the State of California to cause cancer, or birth defects, or other reproductive harm:  
Nalidixic acid CAS No.: 389-08-2

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## SECTION 16: OTHER INFORMATION

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### 16.1 Disclaimer

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## **16.2 Preparation Information**

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