

**Section 1 – Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name: **Nigericin**

Catalog code: tlr1-nig, tlr1-nig-5, tlr1-nig-10

CAS number: 28643-80-3

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

Identified use: Laboratory research. Only for professional use.

Uses advised against: Not for diagnostic, therapeutic, or household use.

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

Company:

InvivoGen US, 10515 Vista Sorrento Parkway  
San Diego, California 92121, USA  
(+1) 888 457 5873

InvivoGen Europe, 5 rue Jean Rodier  
31400 Toulouse, France  
+33 (0) 5 62 71 69 39

InvivoGen Asia, Unit 307, 3F,  
8W Phase 2 Hong Kong Science Park,  
Pak Shek Kok, Hong Kong  
+852 3622 3480

**1.4 Emergency telephone number:** ORFILA (INRS): +33 (0)1 45 42 59 59

**Section 2 – Hazards identification****2.1 Classification of substance or mixture according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS**

Acute toxicity, Oral (Category 3), H301  
Skin irritation (Category 2), H315  
Eye irritation (Category 2), H319  
Specific target organ toxicity - single exposure (Category 3), H335

**2.2 Label elements according to Regulation (EC) No 1272/2008 [CLP] and GHS**

Pictogram



Signal word: **Danger**

Hazard statements

H301: Toxic if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

## Precautionary statements

P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.

**2.3 Other hazards****Endocrine Disruptor**

To our knowledge, the substance or mixture does not contain any substances >0.1% that are included in the list established in accordance with Article 59(1) for having endocrine disrupting properties.

**PBT and vPvB substance**

To our knowledge, the substance or mixture does not contain any substances >0.1% that meet the criteria for persistent, bioaccumulative and toxic or very persistent and very bioaccumulative in accordance with Annex XIII.

**Section 3 – Composition/information on ingredients****3.1 Substances**

Synonyms: Helexin C, Polyetherin A, Azalomycin M, Antibiotic X464, Antibiotic K178

Formula:  $C_{40}H_{67}NaO_{11}$

Molecular weight: 746.94 g/mol

CAS number: 28643-80-3

**Section 4 – First aid measures****4.1 Description of first aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** Remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash skin with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If ingested:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labeling (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 – Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing media:** Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.

**Unsuitable extinguishing media:** None identified.

**5.2 Special hazards arising from the substance or mixture**

No information available

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## **Section 6 – Accidental release measures**

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

#### **6.1.1. For non-emergency personnel**

Wear appropriate protective equipment and clothing during clean-up. For further information refer to section 8: "Exposure controls/personal protection". Ventilate spillage area.

#### **6.1.2. For emergency responders**

Wear appropriate protective equipment and clothing during clean-up. For further information refer to section 8: "Exposure controls/personal protection". Evacuate unnecessary personnel. Avoid direct contact with the spilled substance. Ensure adequate ventilation, especially in confined areas.

### **6.2 Environmental precautions**

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

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal according to local regulations (see section 13).

### **6.4 Reference to other sections**

For disposal see section 13.

## **Section 7 – Handling and storage**

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

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **Section 8 – Exposure controls/personal protection**

### **8.1 Control parameters**

#### **8.1.1 National occupational exposure and biological limit values**

No information available

#### **8.1.2 Recommended monitoring procedures**

No information available

#### **8.1.3 Air contaminants formed**

No information available

#### **8.1.4 DNEL and PNEC**

No information available

#### **8.1.5 Control banding**

No information available

### **8.2 Exposure controls**

#### **8.2.1 Appropriate engineering controls**

General industrial hygiene practice.

#### **8.2.2 Individual protection measures, such as personal protective equipment**

##### **Eye and face protection**

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

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) 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.

**Respiratory protection**

Respiratory protection is not required for normal conditions of use. Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Thermal hazards**

No information available

**8.2.3 Environmental exposure controls**

Do not let product enter drains.

**Section 9 – Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical state: Solid

Color: White

Odor/Odor threshold: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flammability: No data available

Lower and upper explosion limit: No data available

Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

pH: No data available

Kinematic viscosity: No data available

Solubility: 5 mg/ml in ethanol

Partition coefficient n-octanol/water (log value): No data available

Vapor pressure: No data available

Density and/or relative density: No data available

Relative vapor density: No data available

Particle characteristics: No data available

**9.2 Other information****9.2.1 Information with regard to physical hazard classes**

No data available

**9.2.1 Other safety characteristics**

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:** No data available

**10.6 Hazardous decomposition products:** No data available

**Section 11 – Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity:**

Oral LD50: No data available

Inhalation LC50: No data available

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Product Nigericin

Revision Date 03 Mar. 2025

Version 1.3

Dermal LD50: No data available  
Other information on acute toxicity: No data available  
**Skin corrosion/irritation:** No data available  
**Serious eye damage/irritation:** No data available  
**Respiratory or skin sensitization:** No data available  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:** No data available  
**Reproductive toxicity:** No data available  
**STOT-single exposure:** No data available  
**STOT-repeated exposure:** No data available  
**Aspiration hazard:** No data available

#### 11.2 Information on other hazards

**Endocrine disrupting properties:** No data available  
**Other information:** No data available

### **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 or not conducted.  
**12.6 Endocrine disrupting properties:** No data available  
**12.7 Other adverse effects:** No data available

### **Section 13 – Disposal considerations**

#### 13.1 Waste treatment methods

**Product:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

**Contaminated Packaging:** Dispose of as unused product.

### **Section 14 – Transport information**

#### 14.1 UN number

ADR/RID: -                      DOT (US): -                      IMDG: -                      IATA: -

#### 14.2 UN proper shipping name

not dangerous goods

#### 14.3 Transport hazard class(es)

ADR/RID: -                      DOT (US): -                      IMDG: -                      IATA: -

#### 14.4 Packing group

ADR/RID: -                      DOT (US): -                      IMDG: -                      IATA: -

#### 14.5 Environmental hazards

ADR/RID: no                      DOT (US): no                      IMDG Marine pollutant: no                      IATA: no

#### 14.6 Special precautions for user

no data available

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

**Section 15 – Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) including the amendment to Annex II by Regulation (EU) 2020/878.

**15.2 Chemical safety assessment**

no data available

**Section 16 – Other information**

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.