

## **NISIN SAFETY DATA SHEET**

### **SECTION 1: Hazards identification**

#### **1.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

#### **1.2 Label elements**

This substance is not classified as dangerous according to Directive 67/548/EEC.

#### **1.3 Other hazards - none**

### **SECTION 2: Composition/information on ingredients**

#### **2.1 Substances**

Formula:  $C_{143}H_{230}N_{42}O_{37}S_7$

Molecular weight: 3.354 g/mol

CAS-No.: 1414-45-5

EC-No.: 215-807-5

No components need to be disclosed according to the applicable regulations.

### **SECTION 3: First aid measures**

#### **3.1 Description of first aid measures**

- If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- In case of skin contact: Wash off with soap and plenty of water.
- In case of eye contact: Flush eyes with water as a precaution.
- If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### **3.2 Most important symptoms and effects, both acute and delayed.**

The most important known symptoms and effects are described in the labeling (see section 1.2) and/or in section 10.

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

No data available

#### **SECTION 4: Firefighting measures**

##### **4.1 Extinguishing media**

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **4.2 Special hazards arising from the substance or mixture**

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

##### **4.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

##### **4.4 Further information**

No data available

#### **SECTION 5: Accidental release measures**

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

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 7.

##### **5.2 Environmental precautions**

Do not let product enter drains.

##### **5.3 Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

##### **5.4 Reference to other sections**

For disposal see section 12.

#### **SECTION 6: Handling and storage**

##### **6.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 1.2.

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

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

#### **SECTION 7: Exposure controls/personal protection**

*You will when you believe*

## 7.1 Control parameters

Components with workplace control parameters

## 7.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

### Personal protective equipment

**Eye/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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are 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).

**Control of environmental exposure:** Do not let product enter drains.

## SECTION 8: Physical and chemical properties

### 8.1 Information on basic physical and chemical properties

a) Appearance

Form: powder

Colour: off-white

b) Odour: No data available

c) Odour Threshold: No data available

d) PH: No data available

e) Melting point/freezing point: No data available

f) Initial boiling point and boiling range: No data available

- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapour pressure: No data available
- l) Vapour density: No data available
- m) Relative density: No data available
- n) Water solubility: No data available
- o) Partition coefficient: n-octanol/water No data available
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

## **8.2 Other safety information**

No data available

## **SECTION 9: Stability and reactivity**

### **9.1 Reactivity**

No data available

### **9.2 Chemical stability**

Stable under recommended storage conditions.

### **9.3 Possibility of hazardous reactions**

No data available

### **9.4 Conditions to avoid**

No data available

### **9.5 Incompatible materials**

Strong oxidizing agents

### **9.6 Hazardous decomposition products**

Other decomposition products - No data available

In the event of fire: see section 4

## **SECTION 10: Toxicological information**

### **10.1 Information on toxicological effects**

**Acute toxicity:** LD50 Intravenous-Mouse-100mg/kg

**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:** 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 IARC.

**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: QU3340000

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

## **SECTION 11: Ecological information**

### **11.1 Toxicity**

No data available

### **11.2 Persistence and degradability**

No data available

### **11.3 Bioaccumulative potential**

No data available

### **11.4 Mobility in soil**

No data available

### **11.5 Results of PBT and vPvB assessment**

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

### **11.6 Other adverse effects**

*You will when you believe*

No data available

## **SECTION 12: Disposal considerations**

### **12.1 Waste treatment methods**

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.

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

## **SECTION 13: Transport information**

### **13.1 UN number**

ADR/RID: - ; IMDG: - ; IATA: -

### **13.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### **13.3 Transport hazard class(es)**

ADR/RID: - ; IMDG: - ; IATA: -

### **13.4 Packaging group**

ADR/RID: - ; IMDG: - ; IATA: -

### **13.5 Environmental hazards**

ADR/RID: no; IMDG Marine pollutant: no; IATA: no.

**13.6 Special precautions for user:** No data available

## **SECTION 14: Regulatory information**

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

**14.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:** No data available

**14.2 Chemical Safety Assessment:** For this product a chemical safety assessment was not carried out.

## **SECTION 15: Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.