

Material Safety Data Sheet

Extinguishing

Nisin

media:

Protective

equipment:

5. Fire Fighting Measures

1. Chemical Product & Company Identification

Product Name: Nisin

Company: Shandong Freda

biotechnology Co., Ltd

789# West Binhai Street, Linshu county, Linyi city, Shandong province, China 276715

Tel: +86-539-2036878

Fax: +86-539-2036881

Emergency No.: +86-531-81213308

Email: mfreda@fredabiotech.com

Internet: www.fredabiotech.com

foam.

6. Accidental Release Measures

Procedures of personal precautions:

Methods for cleaning up:

protection. Prevent forming of dust clouds. Sweep up with spade and

Use appropriate personal

Use dry chemical powder, water spray, dry chemical powder or

Wear shell-contained breathing

clothing to prevent contact with

apparatus and protective

skin and eyes.

transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Wash spill site after

material pickup is complete.

2. Composition/Information on Ingredients

Product Name: Nisin (min. 2.5%)

E-number: E234

CAS No.: 1414-45-5

Molecular: $C_{143}H_{228}O_{37}N_{42}S_7$

Ingredient: Nisin, NaCl

7. Handling and storage

Handing Wear suitable protective precaution: clothing and chemical safety

gloves. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handing. Keep away from incompatibles or ignition sources, heat and flame.

Storage: Store in a cool, well-ventilated area and keep in a tightly closed

container. Keep away from

direct sunlight

3. Hazards Identification

Hazards categories: Not applicable

4. First Aid Measures

Eye Contact: Flush eyes with plenty of water

for at least 15 minutes.

Skin Contact: Flush skin with plenty of water or

with a disinfectant soap.

Inhalation: Move to fresh air.

Ingestion: Wash out mouth with water.

Note: If necessary, get medical

attention.

Purchase Order No.: 12251 | Product Name: Nisin Net Weight: 5KG | Lot No.: 20170415-34 Country of Origin: China | Supplier Address:

No.789 West Coastal Road, Linshu, Linyi, Shandong, China 276751

FREDA Shandong Freda Biotechnology Co., Ltd.



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8. Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne

levels below

recommended exposure

limits.

Personal Protection:

Wear dust mask if **Respiratory:**

needed.

Eye: Goggles.

Clothing: Protective clothing.

Chemical-resistant Hand:

gloves.

9. Physical and Chemical Properties

Appearance: Light brown powder

Odor: Odorless

Solubility: Soluble in water

10. Stability and Reactivity

Stability: Stable under normal conditions as

recommended.

Conditions to avoid: None

Hazardous

decomposition

products:

None

11. Toxicological Information

Oral Rat LD₅₀ 9.26 g/kg (male), LD₅₀ 6.81g/kg Toxicity data:

(female).

Maybe cause eyes and **Irritation Data:** skin mild irritation.

12. Ecological Information

No data available.

13. Disposal Considerations

Dispose in accordance with

national, state and local Disposal:

environmental control

regulations.

14. Transport Information

DOT Hazard Not hazardous for transport.

Class:

IATA: Not hazardous for air transport.

Not hazardous for sea transport. **IMO**

15. Regulatory Information

Regulation: Not classified as dangerous

according to EU-directive

91/155

16. Other Information

Warning: This product is a chemical

substance and is intended to be

used by persons having

chemical knowledge and skill, at their own discretion and risk.

Disclaimer: The information above is

believed to be accurate and represents the best information

currently available to us.

However, we make no warranty of merchantability or any other warranty, express or implied,

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their particular purposes.