

## 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	
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Emergency No.:	+86-531-81213308	
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Internet:	www.fredabiotech.com	

2. Composition/Information on Ingredients

E234

Nisin (min. 2.5%)

#### Nisin

#### 5. Fire Fighting Measures

Extinguishing media:	Use dry chemical powder, water spray, dry chemical powder or foam.
Protective equipment:	Wear shell-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 6. Accidental Release Measures

Procedures of	Use appropriate personal	
personal	protection. Prevent forming of	
precautions:	dust clouds.	
Methods for	Sweep up with spade and	
cleaning up:	transfer to a dry, clean, lidded	
	container for disposal. Avoid	
	raising dust. Wash spill site after	
	material pickup is complete.	

#### 7. Handling and storage

E234	<b>TT</b> 11	XX7 '. 11'
1414-45-5	Handing precaution:	Wear suitable protective clothing and chemical safety
$C_{143}H_{228}O_{37}N_{42}S_7$	<b>F</b>	gloves. In case of insufficient ventilation, wear suitable
Nisin, NaCl		respiratory equipment. Wash thoroughly after handing. Keep away from incompatibles or
tion	Storage:	ignition sources, heat and flame. Store in a cool, well-ventilated area and keep in a tightly closed
Not applicable		container. Keep away from direct sunlight

# 3. Hazards Identification

**Product Name:** 

**E-number:** 

CAS No.:

Molecular:

**Ingredient:** 

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 o with a disinfectant soap.	
Inhalation:	Move to fresh air.	
Ingestion:	Wash out mouth with water.	
Note:	If necessary, get medical attention.	





# **Material Safety Data Sheet**

Nisin

		1,10,50,10		
13. Disposal Considerations				
8. Exposure Control Engineering Controls:	s/Personal Protection Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below	Disposal:	Dispose in accordance with national, state and local environmental control regulations.	
recommended exposur limits.		14. Transport Information		
Personal Protection:		DOT Hazard Class:	Not hazardous for transport.	
<b>Respiratory:</b>	Wear dust mask if needed.	IATA:	Not hazardous for air transport.	
Eye:	Goggles.	IMO	Not hazardous for sea transport.	
Clothing:	Protective clothing. Chemical-resistant	15. Regulatory Information		
Hand:	gloves.	<b>Regulation:</b>	Not classified as dangerous	
9. Physical and Chemical Properties			according to EU-directive 91/155	
Appearance:	Appearance: Light brown powder		16. Other Information	
Odor:	Odorless	Warning:	This product is a chemical	
Solubility:	bility: Soluble in water		substance and is intended to be used by persons having chemical knowledge and skill, at	
10. Stability and Reactivity		Disclaimer:	their own discretion and risk. The information above is	
Stability:	Stable under normal conditions as recommended.		believed to be accurate and represents the best information currently available to us.	
Conditions to avoid:	None		However, we make no warranty	
Hazardous decomposition products:	None		of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.	
11. Toxicological Inf	ormation		Users should make their own investigations to determine the	
Toxicity data:	Oral Rat $LD_{50}$ 9.26 g/kg (male), $LD_{50}$ 6.81g/kg (female).		suitability of the information for their particular purposes.	
Irritation Data:	Maybe cause eyes and skin mild irritation.			

### **12. Ecological Information**

No data available.

FREDA Shandong Freda Biotechnology Co., Ltd.