

MATERIALS SAFETY DATA SHEET

Code
0302

File name
MSDS0302

Analyst
Dr. YANG

Version
02

Date
01/02/2022

1.0 Identification Of the Substance and Company

Tradename: NisinZ®
Company: Handary s.a., Brussels, Belgium
Emergency No.: +32 23 74 63 14
E-mail: info@handary.com

2.0 Composition/Information on ingredients

Product name: NisinZ
E No.: E234
CAS No.: 1414-45-5
Ingredient: nisin, sodium chloride

3.0 Hazards Identification

This product is non-hazardous for transport. The product does not contain any hazardous materials with occupational exposure limits established.

Emergency Overview: Avoid inhalation and contact.

4.0 First Aid Measure

After inhalation: If inhaled, remove to fresh air. If necessary, get medical attention.

After contact with skin: In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

After contact with eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

After Ingestion: If swallowed, immediately wash out mouth with water provided person is conscious. Call a physician.

5.0 Fire-fighting Measures

Firefighting: Protective Equipment: Wear shell-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Extinguishing media: Suitable: Water spray, Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

6.0 Accidental Release Measures

Procedures of Personal Precautions: Exercise appropriate precautions to minimize direct contact with skin and eyes.

Methods for cleaning up: Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7.0 Handling And Storage

Handling precaution: Wear appropriate protective clothing and chemical safety gloves. Avoid breathing dust. Avoid contact with eyes and skin. Mechanical exhaust required. Keep away from ignition sources, heat and flame.

Incompatibilities: strong oxidizing agents. No smoking at working site.

Storage condition: Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container.

Incompatibilities: Strong oxidizing and food.

8.0 Exposure Controls/Personal Protection

Engineering Controls: Use ventilation equipment if available. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory: Wear dust mask if needed

Eye: Wear chemical safety goggles if needed.

Clothing: Wear appropriate protective clothing.

Hand: Wear compatible chemical-resistant gloves.

Other Protect: No smoking, drinking and eating at working site. Wash thoroughly after handling.

9.0 Physical And Chemical Properties

Appearance: light brown to grey white powder

Odor: with slight odor

MP/MP Range: >200°C decomposition

Solubility: Hardly soluble in water, slightly soluble in acetone and ethanol

10.0 Stability And Reactivity

Stability: Stable under normal temperatures and pressures.

Materials to Avoid: Strong oxidant.

Hazardous polymerization: Will not occur.

Hazardous Decomposition Products: CO, CO₂, Nitrogen oxides.

11.0 Toxicological Information

Toxicity Data: Oral Rat LD₅₀ 2730mg/kg;

Irritation Data: Maybe cause eyes and skin irritation.

12.0 Ecological Information

No data available

13.0 Disposal Considerations

Appropriate Method of Disposal of substance: Spent or discarded material is not belong to hazardous

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waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14.0-Transport Information

DOT Hazard Class: Non-Hazardous for Transport.

IATA: Non-Hazardous for Air Transport.

IMO: Non-Hazardous for Sea Transport

UN Number: Non

15.0 Regulatory Information

EU Additional Classification S: 24/25

Safety Statement: Avoid contact with skin and eyes.

16.0 Other Information

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our technical data sheet.

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