

NISINZ[®] P (0304)

1.0 Identification Of the Substance and Company

Trade name:	NisinZ [®] P
Company:	Handary SA Brussels, Belgium
Emergency No.:	+32 23 74 63 14
E-mail:	info@handary.com

2.0 Composition/Information on ingredients

Product name :	Nisin Z
E Number :	E234
CAS No. :	1414-45-5
Molecular formula:	C ₁₄₁ H ₂₂₈ O ₄₁ N ₃₈ S ₇
Ingredient :	Nisin Z

3.0 Hazards Identification

Skin:	May cause skin irritation
Eyes:	May cause eye irritation
Inhalation:	May cause irritation to the respiratory tract
Ingestion:	Not a hazard with normal industrial usage

4.0 First Aid Measure

After contact with skin:	Flush skin with plenty of soap and water for at least 15 minutes
After contact with eyes:	Flush eyes with plenty of water for at least 15 minutes.
After Ingestion:	Wash out mouth with water.
Inhalation:	Remove to the fresh air.

5.0 Fire-fighting Measures

Suitable extinguishing agents protective equipment:	Water spray, CO ₂ , Dry Chemical Powder, Foam
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6.0 Accidental Release Measures

Person-related safety precaution Measures for environmental protection:	There fire-control, safety management system
Measures for cleaning/ collection:	None

7.0 Handling And Storage

Information for safe handling:	Protect from sunshine and rain, cool and dry. No smoking.
Information about protection against Explosions and fires:	Do not transport together with poisonous and harmful goods
Requirements to be met by storerooms and containers:	Preserve in tight containers at controlled room temperature. Containers in composite paper bag with inner PE bag.
Information about storage facilities :	Keep in cool between 0-10°C and dry place

8.0 Exposure Controls/Personal Protection

Addition information about design of technical systems:	There are protective explosion lamps and switch.
Components with critical values that require monitoring at the works place:	None
Personal protective equipment	
General protective and hygienic measures:	Wear Scab & Protective Clothing
Breathing equipment:	Wear gauze mask
Protection of hands:	Wear rubber glove
Eye protection:	Wear glass

9.0 Physical And Chemical Properties

Form	Grey or white powder
Odor:	Odorless
Smell:	No odor
Melting point/range:	Not applicable
Boiling point/range:	Not applicable
Flash point:	Not applicable
Danger of explosion:	Not applicable
Density at 20°C:	Not applicable
PH value (5g/100ml water) at 20°C:	3.1-3.6
Solubility in/Miscibility with 20°C:	Not applicable

10.0 Stability And Reactivity

Stability and reactivity	Moisture Absorption
Thermal decomposition / condition to be avoided:	None
Dangerous reactions:	None
Dangerous product of composition:	None

11.0 Toxicological Information

Acute toxicity LD50/LC50 values that are relevant for classification:	Rat Oral: LD ₅₀ 9.26g / Kg (male), LD ₅₀ 6.81g / Kg(female)
Components Primary irritant effect on the skin, eye and sensitization:	None

12.0 Ecological Information

No data available

13.0 Disposal Considerations

In accordance with local disposal regulatges.

14.0-Transport Information

DOT Hazard Class:	Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
IATA:	Non-Hazardous for Air Transport: Non-hazardous for air transport.
IMO:	Non-Hazardous for Sea Transport: Non-hazardous for sea transport.
UN Number:	None

15.0 Regulatory Information

EU Additional Classification	S: 24/25 Safety Statement: Avoid contact with skin and eyes.
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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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The information contained in this file is based on our own testing analysis and is, to the best of our knowledge, reliable. Users should, however, conduct their own test to determine the suitability of our products for their own specific purposes.