



Specialized in chemicals

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Material Safety Data Sheet

Nisin

Section 1: Chemical Product and Company Identification

Molecular formula: C143H230N42O37S7

CAS Nr: 1414-45-5

EINECS: 215-807-5

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	%By Weight
Nisin	1414-45-5	100

Ingredient: Nisin, NaCl

Section 3: Hazards Identification

Hazards categories: Not applicable

Section 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.

Section 5: Fire and Explosion Data

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.

Section 6: Accidental Release Measures

Procedures of personal precautions:

Use appropriate personal protection. Prevent forming of dust clouds.

Methods for cleaning up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Wash spill site after material pickup is complete.

Section 7: Handling and Storage

Handling precaution:

Wear suitable protective clothing and chemical safety gloves. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. 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

Section 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:

Respiratory:

Wear dust mask if needed.

Eye:

Goggles.

Clothing:

Protective clothing.

Hand:

Chemical-resistant gloves.

Section 9: Physical and Chemical Properties

Appearance:	Light brown powder
Odor:	Odorless
Solubility:	Soluble in water

Section 10: Stability and Reactivity Data

Stability:	Stable under normal conditions as recommended.
Conditions to avoid:	None
Hazardous decomposition products:	None

Section 11: Toxicological Information

Toxicity data:	Oral Rat LD50 9.26 g/kg (male), LD50 6.81g/kg (female).
Irritation Data:	Maybe cause eyes and skin mild irritation.

Section 12: Ecological Information

No data available.

Section 13: Disposal Considerations

Disposal:	Dispose in accordance with national, state and local environmental control regulations.
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Section 14: Transport Information

DOT Hazard Class:	Not hazardous for transport.
IATA:	Not hazardous for air transport.
IMO	Not hazardous for sea transport.

Section 15: Other Regulatory Information

Regulation:	Not classified as dangerous according to EU-directive 91/155
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Section 16: Other Information

References:	Not available.
Other Special Considerations:	Not available.
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