

**MATERIAL SAFETY - Nisin**

**1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY INFORMATION**

**Product Name:** Nisin  
**Supplier:** Chanjao Longevity Co., Ltd. 50 Ramindra 14, Bangkok 10230 Thailand  
**Emergency Phone No.:** +662-002-7-002  
**Fax No.:** +662-001-7-022

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Composition (%)
NISIN	1414-45-5	100

**3. HAZARD IDENTIFICATION**

The toxicological properties of this material have been investigated.  
The material may cause irritation on susceptible persons upon contacts.

**4. FIRST AID MEASURES**

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.  
**Skin Contact:** Flush skin with plenty of soap and water – get medical attention if irritation occurs.  
**Inhalation:** Remove from exposure and move to fresh air immediately  
**Ingestion:** Do not induce vomiting. Rinse mouth and drink plenty of milk or water  
**Notes to Physician:** None

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**5. FIRE FIGHTING MEASURES**

**General Information:**

This product is noncombustible. If involved in a fire, extinguishing agents suitable for surrounding materials should be use. This product is noncombustible. If involved in a fire, extinguishing agents suitable for surrounding materials should be use.

**Extinguishing Media:**

Dry Chemical, Carbon Dioxide, Foam.

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**6. ACCIDENTAL RELEASE MEASURES**

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb onto an inert, absorbent substrate and sweep up. Wash area with soap and water.

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**7. HANDLING AND STORAGE**

**Handling:**

Keep away from oxidizing agents, excessive heat and sources of ignition.

**Storage:**

Store under cool temperature, in a sealed container in a well-ventilated area. Avoid sunlight.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal Protection:**

**Eyes:**

Wear safety glasses and goggles if splashing is possible.

**Skin:**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to minimize contact with skin.

**Respirators:**

Wear a standard lab respirator.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Grey-white powder
<b>Odor:</b>	Not available
<b>Nisin Content (IU/mg):</b>	900 Min.
<b>Moisture (%):</b>	3 Min
<b>Sodium Chloride (%):</b>	50 Min.
<b>Flash Point:</b>	Not available.
<b>Solubility in water:</b>	Soluble

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**10. STABILITY AND REACTIVITY**

**Stability:**

This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

**Conditions to Avoid:**

Incompatible materials.

**Incompatibilities:**

This product is incompatible with strong oxidizers.

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**11. TOXICOLOGICAL INFORMATION**

**Substance is generally non-toxic and non-irritant but over-exposure can be hazardous.**

**LD50/LC50:** Not established.

**Carcinogenicity:** Not available.

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**12. ECOLOGICAL INFORMATION**

Information not fully known. However, high concentration in water can pose risks.

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**13. DISPOSAL CONSIDERATION**

**Waste from Residue/Unused Products:**

Dispose of in a manner consistent with federal, state, and local regulations.

**This compound is NOT on the EPA Toxic Substances Control Act (TSCA) inventory list.**

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**14. TRANSPORT REGULATIONS**

**IATA** No information available.

**IMO** No information available.

**RID/ADR** No information available.

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**15. REGULATORY INFORMATION**

This material is intended to be used as a cosmetic ingredient.

**Hazard Symbol(s):** Not available.

**Risk Phrase(s):** Not available.

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**16. OTHER INFORMATION**

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Chanjao Longevity assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.

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