

Material Safety Data Sheet (MSDS)

Product Name: Niacinamide (Vitamin B3)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

Product Name: Niacinamide (Vitamin B3)

Synonyms: Nicotinamide; Pyridine-3-carboxamide

CAS No.: 98-92-0

EC No.: 202-713-4

Molecular Formula: C₆H₆N₂O

Molecular Weight: 122.12 g/mol

Recommended Use: Nutritional supplement, pharmaceutical ingredient, cosmetic formulation.

Restrictions on Use: Not for direct therapeutic use without formulation.

2. Hazard Identification

Classification (GHS):

- Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP).
- Non-flammable, non-toxic under normal conditions.

GHS Label Elements:

- **Signal Word:** None
- **Hazard Statements:** Not applicable
- **Precautionary Statements:**
 - Avoid dust formation.
 - Handle in accordance with good industrial hygiene.

Other Hazards:

May cause mild skin or eye irritation upon direct contact with dust.

3. Composition / Information on Ingredients

Chemical Name: Niacinamide (Vitamin B3)

Synonym: Nicotinamide

CAS No.: 98-92-0

Purity: ≥99%

Molecular Formula: C₆H₆N₂O

4. First Aid Measures

Inhalation: Move the person to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present.

Ingestion: Rinse mouth with water. Seek medical attention if discomfort persists.

Most Important Symptoms: May cause mild irritation to respiratory tract, skin, or eyes.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, CO₂, or foam.

Unsuitable Media: None known.

Specific Hazards: Product is combustible but not easily ignited.

Special Protective Equipment: Use self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation. Wear protective equipment.

Environmental Precautions: Prevent release into drains or waterways.

Methods for Cleaning Up: Sweep up and collect in labeled containers for disposal. Avoid raising dust.

7. Handling and Storage

Handling:

- Avoid contact with eyes and prolonged skin contact.
- Avoid dust inhalation.
- Ensure adequate ventilation in the work area.

Storage:

- Store in a cool, dry, and well-ventilated place.
 - Keep container tightly closed.
 - Protect from moisture and direct sunlight.
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8. Exposure Controls / Personal Protection

Occupational Exposure Limits: Not established.

Engineering Controls: Use local exhaust ventilation to control dust.

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Dust mask if exposure limits exceeded.
 - **Skin Protection:** Gloves and lab coat.
 - **Eye Protection:** Safety goggles.
 - **Hygiene Measures:** Wash hands after handling.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder

- **Odor:** Odorless
 - **Melting Point:** 128 – 131°C
 - **Boiling Point:** Decomposes
 - **Solubility:** Soluble in water and ethanol
 - **pH (5% solution):** 6.0 – 7.5
 - **Flash Point:** Not applicable (non-flammable)
 - **Density:** Approx. 1.4 g/cm³
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10. Stability and Reactivity

Stability: Stable under normal storage conditions.

Incompatible Materials: Strong oxidizing agents.

Conditions to Avoid: Heat, moisture, and light exposure.

Hazardous Decomposition Products: Nitrogen oxides, carbon oxides.

11. Toxicological Information

Acute Toxicity: LD₅₀ (oral, rat): >3500 mg/kg (low toxicity)

Skin Irritation: Mild irritation possible.

Eye Irritation: Mild irritation possible.

Carcinogenicity / Mutagenicity: Not classified as carcinogenic.

Sensitization: Not known to cause sensitization.

12. Ecological Information

Ecotoxicity: Low environmental toxicity.

Persistence and Degradability: Readily biodegradable.

Bioaccumulative Potential: Low.

Mobility in Soil: Moderate; water-soluble compound.

Other Adverse Effects: None known.

13. Disposal Considerations

Dispose of contents and containers according to local, regional, national, and international regulations. Avoid release into the environment.

14. Transport Information (Detailed)

UN Number: Not applicable (not regulated as hazardous for transport)

UN Proper Shipping Name: Niacinamide / Nicotinamide

Transport Hazard Class(es): Not classified as dangerous goods under:

- ADR/RID (Road/Rail, Europe)
- IMDG (Sea Transport)
- IATA (Air Transport)
- DOT (US Department of Transport)

Packing Group: Not applicable

Environmental Hazards: Not a marine pollutant

Transport in Bulk (Annex II MARPOL 73/78 and IBC Code): Not applicable

Special Precautions for Transport:

- Protect containers from physical damage.
- Keep tightly closed and dry.
- Avoid moisture and direct sunlight during transportation.
- Maintain temperature below 30°C for quality assurance.

Additional Information:

Niacinamide is a stable, non-hazardous solid that does not require any special transport labeling or handling procedures under normal conditions.

Packaging should comply with standards for pharmaceutical and food-grade chemicals.

15. Regulatory Information

Safety, Health, and Environmental Regulations:

- Not listed as a hazardous substance under OSHA, REACH, or GHS.

- Permitted for use in food, cosmetic, and pharmaceutical applications under appropriate regulations.
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16. Other Information

Disclaimer:

The information provided herein is believed to be accurate and reliable as of the revision date. However, it is the user's responsibility to ensure suitability for specific applications.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.