

Material Safety Data Sheet (MSDS)

Product Name: Vitamin B3 [Niacin] IP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Vitamin B3 (Niacin) – IP Grade
- **Synonyms:** Nicotinic Acid, Pyridine-3-carboxylic acid
- **Molecular Formula:** $C_6H_5NO_2$
- **Molecular Weight:** 123.11 g/mol
- **Recommended Use:** Pharmaceutical intermediate, nutritional supplement

2. Hazard Identification

- **GHS Classification:** Not classified as hazardous
- **Signal Word:** None
- **Hazard Statements:**
 - Low toxicity, not considered hazardous in normal use.
 - May cause mild irritation to eyes, skin, or respiratory tract in excessive exposure.

- **Precautionary Statements:**
 - Avoid dust formation.
 - Use PPE during handling.
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3. Composition/Information on Ingredients

- **Chemical Name:** Niacin (Vitamin B3)
 - **CAS Number:** 59-67-6
 - **EINECS Number:** 200-441-0
 - **Purity:** ≥ 99% (IP Grade)
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4. First Aid Measures

- **Inhalation:** Move to fresh air, seek medical advice if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation continues.
 - **Ingestion:** Rinse mouth with water, seek medical attention if large amounts are ingested.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, CO₂.
 - **Specific Hazards:** Not highly flammable but may decompose under fire to emit nitrogen oxides and carbon oxides.
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus.
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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust inhalation, use PPE.
 - **Environmental Precautions:** Prevent entry into waterways.
 - **Clean-up Methods:** Sweep up and place in a suitable container for disposal.
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7. Handling and Storage

- **Handling:** Avoid dust formation. Ensure adequate ventilation.
 - **Storage:** Store in a cool, dry, and well-ventilated place. Keep container tightly closed.
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established.
 - **Engineering Controls:** Ensure ventilation.
 - **Personal Protection:**
 - Respiratory: Dust mask if airborne particles are present.
 - Hands: Protective gloves.
 - Eyes: Safety glasses.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **pH (0.1M solution):** ~3.0 – 4.0
 - **Melting Point:** 236–239 °C (decomposes)
 - **Boiling Point:** Not applicable (decomposes)
 - **Solubility:** Slightly soluble in water, soluble in ethanol
 - **Flash Point:** Not applicable
 - **Density:** ~1.47 g/cm³
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10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
 - **Incompatible Materials:** Strong oxidizing agents, strong bases.
 - **Hazardous Decomposition Products:** Nitrogen oxides, carbon oxides.
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11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat): > 3500 mg/kg
- **Skin Irritation:** Mild, non-corrosive
- **Eye Irritation:** May cause mild irritation
- **Carcinogenicity:** Not classified
- **Mutagenicity:** No data indicating mutagenic effects

12. Ecological Information

- **Ecotoxicity:** Not expected to be hazardous to the environment.
- **Persistence/Degradability:** Biodegradable.
- **Bioaccumulation:** Not expected.

13. Disposal Considerations

- **Product Disposal:** Dispose in accordance with local regulations.
- **Packaging Disposal:** Dispose of packaging as per local waste disposal norms.

14. Transport Information (Detailed)

Niacin is **not classified as a hazardous material** for transport under international regulations. However, detailed guidelines are provided below:

- **UN Number:** Not applicable (not regulated)
- **UN Proper Shipping Name:** Not applicable (not regulated)
- **Transport Hazard Class(es):** Not applicable
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not considered environmentally hazardous
- **Special Precautions for User:**
 - Ensure packaging is secure to prevent leakage.
 - Avoid transport with strong oxidizers.
 - Transport in clean, dry, covered vehicles.

- Avoid exposure to moisture and high temperatures during transport.

Mode-Specific Guidance:

- **Road/Rail (ADR/RID):** Not classified as dangerous goods.
- **Sea (IMDG):** Not regulated; transport in sealed containers, away from incompatible materials.
- **Air (IATA/ICAO):** Not regulated; pack in accordance with general cargo standards.
- **Inland Waterways (ADN):** Not regulated.

Emergency Transport Guidance:

- Spills should be swept up and collected.
- If inhaled during transport accident, move the affected person to fresh air.
- Fire during transport: use water spray, CO₂, or dry chemical.

15. Regulatory Information

- **Regulation (EC) No. 1907/2006 (REACH):** Exempt as a vitamin substance.
- **OSHA (US):** Not classified as hazardous.
- **WHMIS (Canada):** Non-hazardous.

16. Other Information

- **References:**
 - Merck Index, 15th Edition
 - ECHA Database
- **Disclaimer:** The information provided is accurate to the best of our knowledge as of the revision date. It is intended for guidance only and does not constitute a guarantee.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.