

Material Safety Data Sheet (MSDS)

Product Name: Vitamin B5 IP Grade

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:** Vitamin B5 IP Grade (Pantothenic Acid)
- **Synonyms:** D-Pantothenic Acid, Calcium Pantothenate
- **Molecular Formula:** C₉H₁₇NO₅ (for pantothenic acid)
- **Molecular Weight:** 219.24 g/mol
- **Recommended Use:** Pharmaceutical formulations, dietary supplements, food fortification, feed additives.

2. Hazards Identification

- **Classification:** Not classified as hazardous under normal conditions of use.
- **Health Hazards:** Low toxicity; excessive ingestion may cause mild gastrointestinal irritation.
- **Environmental Hazards:** Not considered hazardous to environment in normal quantities.

- **Signal Word:** None required.
 - **Pictogram:** Not applicable.
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3. Composition / Information on Ingredients

- **Substance:** Vitamin B5 IP Grade (Pantothenic Acid)
 - **Purity:** $\geq 98\%$
 - **CAS No.:** 79-83-4 (Pantothenic Acid), 137-08-6 (Calcium Pantothenate)
 - **EINECS No.:** 201-228-5
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4. First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. Seek medical help if irritation occurs.
 - **Eye Contact:** Rinse thoroughly with plenty of water for 15 minutes. Get medical attention if irritation continues.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Get medical help if symptoms occur.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical powder, foam, carbon dioxide.
 - **Unsuitable Media:** None known.
 - **Hazardous Combustion Products:** May emit carbon oxides, nitrogen oxides.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus.
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6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and place in suitable closed containers.
- Ensure good ventilation.
- Wash spill area with water after material pickup.

7. Handling and Storage

- Handle in accordance with good industrial hygiene and safety practices.
- Store in a tightly closed container.
- Keep in a cool, dry, and well-ventilated place away from heat and direct sunlight.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protective Equipment:**
 - Eye Protection: Safety goggles.
 - Skin Protection: Gloves, lab coat.
 - Respiratory Protection: Dust mask if dust is generated.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Taste:** Slightly bitter
- **pH (1% solution):** 6.0 – 7.5
- **Melting Point:** Decomposes above 190 °C
- **Solubility:** Freely soluble in water, slightly soluble in ethanol
- **Stability:** Stable under normal storage conditions

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Excessive heat, moisture, direct sunlight.
- **Incompatible Materials:** Strong oxidizing agents.

- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides.
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11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 10,000 mg/kg (low toxicity).
 - **Skin Irritation:** Not irritating.
 - **Eye Irritation:** Mild transient irritation possible.
 - **Carcinogenicity:** Not listed by IARC, NTP, OSHA.
 - **Other Effects:** Large doses may cause gastrointestinal upset.
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12. Ecological Information

- **Ecotoxicity:** Not expected to be hazardous to aquatic life.
 - **Persistence/Degradability:** Biodegradable.
 - **Bioaccumulation:** Not bioaccumulative.
 - **Mobility in Soil:** Soluble, may leach in water systems.
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13. Disposal Considerations

- Dispose of in accordance with local regulations.
 - Do not discharge into drains or watercourses.
 - Contaminated packaging should be disposed of as per applicable laws.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable (non-hazardous).
- **Proper Shipping Name:** Vitamin B5 IP Grade (Pantothenic Acid).
- **Transport Hazard Class:** Not classified as hazardous for transport.
- **Packing Group:** Not applicable.
- **Label Requirements:** None.
- **Marine Pollutant:** No.

- **Road Transport (ADR/RID):** Not regulated.
 - **Air Transport (IATA/ICAO):** Not regulated; can be shipped as general cargo.
 - **Sea Transport (IMDG):** Not regulated; no special precautions required.
 - **Precautions for Transport:**
 - Keep container tightly closed to prevent contamination.
 - Protect from physical damage, direct sunlight, and excessive moisture.
 - Transport in clean, dry, well-sealed packaging.
 - Avoid transporting with incompatible substances such as strong oxidizers.
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15. Regulatory Information

- This material is not classified as hazardous under global chemical inventories.
 - Complies with IP, USP, and international pharmacopeia standards.
 - No restrictions for handling or transport under normal conditions.
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16. Other Information

- **Disclaimer:** The information provided is accurate to the best of our knowledge as of the issue date. It is intended to describe safety requirements for the product and should not be considered as a guarantee of specific properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.