

Material Safety Data Sheet (MSDS)

Product Name: Vitamin B1 (Thiamine hydrochloride) BP 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 B1 (Thiamine Hydrochloride)
- **Grade:** BP Grade
- **CAS No.:** 67-03-8
- **Molecular Formula:** $C_{12}H_{17}ClN_4OS \cdot HCl$
- **Molecular Weight:** ~337.27 g/mol
- **Recommended Use:** Pharmaceutical formulations, nutritional supplements, food fortification
- **Restrictions on Use:** For professional use only

2. Hazards Identification

- **Classification:** Not classified as hazardous under GHS
- **Potential Hazards:**

- Dust may cause mild irritation to eyes, skin, or respiratory tract
 - **Label Elements:**
 - No hazard pictograms required
 - **Precautionary Statements:**
 - Avoid dust generation
 - Use appropriate personal protective equipment
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3. Composition / Information on Ingredients

- **Chemical Name:** Thiamine Hydrochloride
 - **Synonyms:** Vitamin B1 HCl
 - **Purity:** As per BP specifications
 - **Hazardous Ingredients:** None
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4. First Aid Measures

- **Inhalation:**
 - Move to fresh air. Seek medical attention if symptoms persist
 - **Skin Contact:**
 - Wash with soap and water
 - **Eye Contact:**
 - Rinse cautiously with water for several minutes
 - **Ingestion:**
 - Rinse mouth. Do not induce vomiting. Seek medical advice if unwell
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:**
 - Water spray, dry chemical, CO₂, foam

- **Specific Hazards:**
 - May decompose at high temperatures releasing nitrogen and sulfur oxides
 - **Protective Equipment:**
 - Self-contained breathing apparatus (SCBA)
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6. Accidental Release Measures

- **Personal Precautions:**
 - Avoid inhalation of dust
 - **Environmental Precautions:**
 - Prevent entry into drains and waterways
 - **Cleanup Methods:**
 - Sweep up carefully and place in suitable container
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7. Handling and Storage

- **Handling:**
 - Handle in well-ventilated area
 - Avoid contact with eyes and skin
 - **Storage:**
 - Store in tightly closed containers
 - Keep in a cool, dry place away from moisture and light
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8. Exposure Controls / Personal Protection

- **Exposure Limits:**
 - No established occupational exposure limits
- **Engineering Controls:**
 - Adequate ventilation

- **Personal Protective Equipment:**
 - Gloves, safety goggles, dust mask if required
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9. Physical and Chemical Properties

- **Appearance:** White to off-white crystalline powder
 - **Odor:** Odorless
 - **Solubility:** Freely soluble in water, slightly soluble in alcohol
 - **pH:** Slightly acidic (aqueous solution)
 - **Melting Point:** ~248°C (with decomposition)
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10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions
 - **Reactivity:** No hazardous reactions known
 - **Conditions to Avoid:**
 - Excessive heat, moisture
 - **Incompatible Materials:**
 - Strong oxidizing agents
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity
 - **Skin Irritation:** Not expected to cause irritation
 - **Eye Irritation:** Mild irritation possible
 - **Chronic Effects:** No known adverse long-term effects
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12. Ecological Information

- **Ecotoxicity:** No data available
- **Persistence and Degradability:** Expected to be biodegradable

- **Bioaccumulative Potential:** Low

13. Disposal Considerations

- **Waste Disposal:**
 - Dispose according to local, regional, and national regulations
- **Packaging Disposal:**
 - Empty containers may be recycled or disposed of as per regulations

14. Transport Information (Detailed)

- **UN Number:** Not assigned
- **UN Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** Not classified as hazardous for transport
- **Packing Group:** Not applicable

Transport Regulations:

- **ADR/RID (Road/Rail):** Not regulated
- **IMDG (Sea Transport):** Not regulated
- **IATA (Air Transport):** Not regulated

Environmental Hazards:

- Not a marine pollutant

Special Precautions for Transport:

- Protect from moisture and physical damage
- Ensure containers are tightly sealed
- Transport in accordance with good manufacturing and distribution practices

15. Regulatory Information

- **Regulatory Status:**
 - Complies with BP standards

- **GHS Classification:**
 - Not classified as hazardous

16. Other Information

- **Intended Use:** Pharmaceutical and nutraceutical applications
- **Disclaimer:**
 - The information provided is believed to be accurate and is intended for guidance only.
The supplier shall not be held liable for any damage resulting from misuse or improper handling of this product.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.