

Material Safety Data Sheet (MSDS)

Product Name: Vitamin B2 80% Feed 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 B2 (Riboflavin) 80% Feed Grade
- **Synonyms:** Riboflavin, Lactoflavin
- **CAS Number:** 83-88-5
- **Molecular Formula:** C₁₇H₂₀N₄O₆
- **Molecular Weight:** 376.36 g/mol
- **Recommended Use:** Nutritional supplement for feed applications.

2. Hazards Identification

- **Classification:** Not classified as hazardous under GHS.
- **Hazard Statements:** Non-toxic, non-hazardous under normal handling.
- **Precautionary Statements:** Avoid excessive dust formation. Use with adequate ventilation.

3. Composition / Information on Ingredients

- **Chemical Name:** Vitamin B2 (Riboflavin)
- **Purity:** 80% Feed Grade
- **Other Components:** Carriers/excipients up to 20% (non-hazardous).

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 with plenty of water for several minutes.
- **Ingestion:** Non-toxic; rinse mouth and drink water if necessary.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam.
- **Specific Hazards:** May emit CO, CO₂, and nitrogen oxides under fire conditions.
- **Protective Equipment:** Wear self-contained breathing apparatus.

6. Accidental Release Measures

- **Personal Protection:** Avoid inhalation of dust, wear protective mask.
- **Spill Response:** Sweep up and collect in suitable containers. Avoid generating dust.

7. Handling and Storage

- **Handling:** Avoid dust formation. Ensure adequate ventilation.
- **Storage:** Store in a cool, dry, and well-ventilated area. Protect from moisture and direct sunlight.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.

- **Respiratory Protection:** Use dust mask if dust forms.
 - **Eye Protection:** Safety goggles recommended.
 - **Hand Protection:** Protective gloves.
 - **Engineering Controls:** Local exhaust ventilation if dust generated.
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9. Physical and Chemical Properties

- **Appearance:** Yellow to orange crystalline powder
 - **Odor:** Odorless
 - **Solubility:** Slightly soluble in water, insoluble in alcohol
 - **pH (1% solution):** ~5.0 – 7.0
 - **Melting Point:** ~280°C (decomposes)
 - **Stability:** Stable under normal conditions.
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10. Stability and Reactivity

- **Stability:** Stable under recommended storage.
 - **Incompatible Materials:** Strong oxidizing agents.
 - **Hazardous Decomposition Products:** CO, CO₂, nitrogen oxides.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic, LD50 (oral/rat) > 10,000 mg/kg
 - **Skin Irritation:** Not irritating
 - **Eye Irritation:** Mild dust irritation possible
 - **Sensitization:** Not sensitizing
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12. Ecological Information

- **Eco-toxicity:** Not harmful to aquatic or terrestrial organisms.

- **Persistence and Degradability:** Biodegradable.
 - **Bioaccumulation:** No potential for bioaccumulation.
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13. Disposal Considerations

- **Product Disposal:** Dispose according to local regulations.
 - **Packaging Disposal:** Recycle or dispose in compliance with regulations.
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14. Transport Information (Detailed)

- **UN Number:** Not applicable (Non-hazardous).
 - **UN Proper Shipping Name:** Not regulated as dangerous goods.
 - **Transport Hazard Class:** Not classified as hazardous.
 - **Packing Group:** Not applicable.
 - **Marine Pollutant:** No.
 - **Special Precautions for User:** Avoid dust generation during transport.
 - **Road/Rail (ADR/RID):** Not restricted.
 - **Air (ICAO/IATA):** Not classified as dangerous goods; can be transported without restriction.
 - **Sea (IMDG):** Not regulated; can be shipped as general cargo.
 - **Additional Information:** Product is stable, non-flammable, non-explosive, and safe under normal transportation conditions. Ensure packaging is sealed to prevent moisture absorption.
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15. Regulatory Information

- Not classified as hazardous under GHS, EU, or Indian regulations.
 - Safe for use in feed-grade applications.
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16. Other Information

- **Disclaimer:** The information provided in this MSDS is believed to be accurate and represents the best information available to us. However, Rawpharma Biz makes no warranty with respect thereto and assumes no liability resulting from its use.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.