

Material Safety Data Sheet (MSDS)

Product Name: Vitamin B2 (Riboflavin) 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 B2 (Riboflavin) IP Grade
- **Synonyms:** Riboflavin, Lactoflavin
- **CAS No.:** 83-88-5
- **Molecular Formula:** $C_{17}H_{20}N_4O_6$
- **Recommended Use:** Pharmaceutical ingredient, nutraceuticals, food fortification

2. Hazard Identification

- **GHS Classification:** Not classified as hazardous
- **Label Elements:** None required
- **Potential Health Effects:**
 - Eyes: May cause mild irritation on contact
 - Skin: Prolonged contact may cause mild irritation
 - Inhalation: Dust may cause respiratory discomfort
 - Ingestion: Generally regarded as safe under normal conditions

3. Composition / Information on Ingredients

- **Chemical Name:** Riboflavin
- **Purity:** As per IP specifications
- **Content:** $\geq 98.0\%$
- **Impurities:** None of concern

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if symptoms persist
- **Skin Contact:** Wash with soap and water
- **Eye Contact:** Rinse cautiously with water for several minutes
- **Ingestion:** Rinse mouth with water; do not induce vomiting

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, CO₂, dry chemical powder
- **Special Hazards:** May emit toxic fumes under fire conditions
- **Protective Equipment:** Self-contained breathing apparatus

6. Accidental Release Measures

- Avoid dust formation
- Sweep up and collect in suitable containers
- Dispose according to local regulations

7. Handling and Storage

- Handle with adequate ventilation
- Avoid contact with eyes and inhalation of dust
- Store in a cool, dry, well-ventilated place
- Protect from light and moisture

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation

- **Personal Protective Equipment:**

- Gloves
- Safety goggles
- Dust mask if required

9. Physical and Chemical Properties

- **Appearance:** Yellow to orange-yellow crystalline powder
- **Odour:** Odourless
- **Solubility:** Slightly soluble in water
- **pH:** Not applicable
- **Melting Point:** ~290°C (decomposes)

10. Stability and Reactivity

- **Stability:** Stable under recommended conditions
- **Conditions to Avoid:** Light, heat, moisture
- **Incompatible Materials:** Strong oxidizing agents

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Chronic Effects:** No known adverse effects under normal use
- **Mutagenicity / Carcinogenicity:** Not classified

12. Ecological Information

- Not expected to be hazardous to aquatic life
- Biodegradable
- No bioaccumulation expected

13. Disposal Considerations

- Dispose of product and packaging in accordance with local, regional, and national regulations
- Incineration or landfill as per authority approval

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

Mode-wise Transport Classification:

- **Road Transport (ADR/RID):** Not dangerous goods
- **Sea Transport (IMDG):** Not regulated as hazardous
- **Air Transport (IATA):** Not restricted

Special Transport Precautions:

- Transport in tightly sealed containers
- Protect from direct sunlight and moisture
- Handle carefully to prevent package damage

15. Regulatory Information

- Complies with IP (Indian Pharmacopoeia) standards
- Not listed as hazardous under GHS, OSHA, or REACH

16. Other Information

- **Disclaimer:**
The information provided in this MSDS is believed to be accurate and reliable. It is intended for guidance only and does not constitute a warranty.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.