

Material Safety Data Sheet (MSDS)

Product Name: Vitamin B2 100% USP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Identification of the Substance/Preparation and Company

- **Product Name:** Vitamin B2 (Riboflavin)
- **Grade:** USP Grade
- **Chemical Formula:** C₁₇H₂₀N₄O₆
- **CAS Number:** 83-88-5
- **Synonyms:** Riboflavin, Lactoflavin

2. Hazards Identification

- **Classification (GHS):** Not classified as hazardous.
- **Hazard Statement:** May cause mild irritation to eyes and skin.
- **Precautionary Statement:** Handle in accordance with good industrial hygiene and safety practices.
- **Potential Health Effects:**

- Eye contact: Mild irritation.
- Skin contact: Prolonged exposure may cause dryness.
- Ingestion: Non-toxic in normal quantities.

3. Composition / Information on Ingredients

- **Substance:** Riboflavin
- **Concentration:** 100%
- **Grade:** USP

4. First Aid Measures

- **Eye Contact:** Rinse immediately with plenty of water. Seek medical advice if irritation persists.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Inhalation:** Move to fresh air. Seek medical advice if symptoms develop.
- **Ingestion:** Rinse mouth with water. Non-toxic but consult physician if large amounts are ingested.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.
- **Fire Hazards:** Not considered flammable but may decompose at high temperatures releasing nitrogen oxides.
- **Protective Equipment:** Firefighters should wear protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and place in suitable container for disposal.
- Ventilate area and wash spill site after handling.

7. Handling and Storage

- Handle with adequate ventilation.
- Avoid contact with eyes and skin.
- Store in cool, dry, well-ventilated area.
- Protect from light and moisture.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Ensure good ventilation.
- **Personal Protection:**
 - Respiratory: Dust mask if dust forms.
 - Eye: Safety glasses.
 - Skin: Gloves and protective clothing.
- **Hygiene Measures:** Wash hands after handling.

9. Physical and Chemical Properties

- **Appearance:** Yellow to orange crystalline powder
- **Odor:** Odorless
- **Solubility:** Slightly soluble in water
- **Melting Point:** 280 °C (decomposes)
- **pH:** 5.0 – 6.5 (1% solution)
- **Stability:** Stable under recommended conditions

10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Incompatibilities:** Strong oxidizing agents, light, moisture.
- **Hazardous Decomposition Products:** Nitrogen oxides, carbon oxides.

11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 10,000 mg/kg (non-toxic).
- **Skin/Eye Irritation:** Mild irritant.
- **Chronic Effects:** Not known to cause long-term health effects.

12. Ecological Information

- **Ecotoxicity:** Not expected to be hazardous to the environment.
- **Biodegradability:** Readily biodegradable.
- **Bioaccumulation:** Not significant.

13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations.
- Can be disposed of as non-hazardous organic waste.

14. Transport Information (Detailed)

- **UN Number:** Not applicable (Non-hazardous material).
- **UN Proper Shipping Name:** Vitamin B2 / Riboflavin
- **Transport Hazard Class:** Not classified as dangerous goods.
- **Packing Group:** Not applicable
- **Environmental Hazards:** Not considered environmentally hazardous.
- **Transport Labels:** No special labeling required.
- **Special Precautions for User:** Avoid exposure to direct sunlight and moisture during transport. Keep container tightly sealed.
- **Transport by Road (ADR/RID):** Not regulated.
- **Transport by Sea (IMDG):** Not regulated.
- **Transport by Air (IATA/ICAO):** Not regulated.
- **Additional Notes:** Product should be transported in well-closed containers, protected from humidity and strong light.

15. Regulatory Information

- **Regulation Compliance:**
 - USP Grade standard
 - Not classified as hazardous under OSHA, EU CLP, or GHS regulations.

16. Other Information

- This MSDS has been prepared with the best available knowledge.
- The information is believed to be correct but does not claim to be all-inclusive.
- Users should make independent determination of suitability for their 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.