



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(Compliant with GHS Rev.9, GB/T 16483, IMDG, IATA) **Revision Date:** 10 FEB 2026 **Version:** 1.0

SECTION 1: Identification

1.1 Product Identifiers

- Name: Riboflavin (Vitamin B2)
- CAS: 83-88-5
- Synonyms: Lactoflavin; Vitamin G.

1.2 Supplier Details

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, Bldg 3, 188 Aona Rd, Shanghai Free Trade Zone, China
- Tel: +86-21-50350029 | Fax: +86-21-50350029
- Emergency Contact: +86-21-50350029 (24h)

1.3 **Uses:** Food colorant, nutritional supplement, pharmaceutical raw material, feed additive.

SECTION 2: Hazards Identification

2.1 **Classification:** Not classified as hazardous under GHS. 2.2 **Label Elements:** No hazard

pictograms or signal words. 2.3 **Precautionary Statements:** P271 (Use only in well-ventilated

areas). 2.4 **Hazards Summary:** Non-toxic. Dust may cause mild mechanical irritation to eyes.

Urine may turn yellow (harmless).

SECTION 3: Composition/Information on Ingredients

- **Pure Substance:** Riboflavin (100%).
- **CAS No.:** 83-88-5. No hazardous impurities.

SECTION 4: First Aid Measures

- **Inhalation:** Move to fresh air. Rest if discomfort occurs.
- **Skin Contact:** Wash with soap and water. Staining may occur but is harmless.
- **Eye Contact:** Rinse thoroughly with water for 10 minutes to remove particles.
- **Ingestion:** Non-toxic. No treatment required.

SECTION 5: Firefighting Measures

- **Extinguishing Media:** Water spray, dry chemical, CO₂.
- **Hazards in Fire:** Non-combustible. Decomposes to produce non-toxic fumes at high temperatures.
- **Advice:** Firefighters should wear self-contained breathing apparatus in confined spaces.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear dust mask to avoid inhalation of colored dust.
- **Cleanup:** Sweep up carefully to avoid staining surfaces. Collect in sealed containers.

SECTION 7: Handling and Storage

- **Handling:** Avoid dust formation. The powder can stain skin and fabrics yellow.
- **Storage:** Store in a cool, dry place ($\leq 25^{\circ}\text{C}$) in **light-proof** containers. Protect from direct sunlight.
- **Shelf Life:** 24 months unopened (light-proof).



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- **Incompatibilities:** Reducing agents, strong alkalis.

SECTION 8: Exposure Controls/Personal Protection

- **PPE:** Dust respirator (N95), chemical safety goggles, and nitrile gloves.
- **Engineering Controls:** Local exhaust ventilation recommended for bulk processing.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Yellow to orange-yellow crystalline powder.
- **Solubility:** Sparingly soluble in water, insoluble in alcohol/ether.
- **pH:** 6.0-7.5 (suspension).
- **Melting Point:** Decomposes > 280°C.
- **Specific Rotation:** +120° to +130°.

SECTION 10: Stability and Reactivity

- **Stability:** Stable to heat, but **degrades rapidly in light** (especially UV light).
- **Hazardous Reactions:** No dangerous reactions under normal use.

SECTION 11: Toxicological Information

- **Acute Oral LD₅₀ (Rat):** > 10,000 mg/kg.
- **Skin Irritation:** Non-irritating.
- **Carcinogenicity:** Not classified as a carcinogen.

SECTION 12: Ecological Information

- **Aquatic Toxicity:** Low toxicity to aquatic life.
- **Biodegradability:** Readily biodegradable under aerobic conditions.

SECTION 13: Disposal Considerations

- Dispose of waste in accordance with local environmental regulations. Do not release into the environment.

SECTION 14: Transport Information

- **UN Number:** None.
- **Classification:** Non-hazardous for transport (ADR, IMDG, IATA).
- **Special Precautions:** Must be transported in light-proof packaging to prevent degradation.

SECTION 15: Regulatory Information

- Complies with REACH, TSCA, and Chinese National Standards for Food Additives.

SECTION 16: Other Information

This document supersedes all previous versions. The information is correct as of the revision date.