

Material Safety Data Sheet (MSDS)

Product Name: Folic Acid Food 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: Folic Acid Food Grade

Synonyms: Vitamin B9, Pteroylglutamic Acid

Chemical Formula: $C_{19}H_{19}N_7O_6$

CAS Number: 59-30-3

Molecular Weight: 441.40 g/mol

Recommended Use: Nutritional supplement, food fortification, and vitamin formulation.

2. Hazard Identification

Classification: Not classified as hazardous under GHS.

Physical Hazards: Non-flammable, non-explosive.

Health Hazards:

- May cause mild irritation to eyes, skin, and respiratory tract.
- Ingestion of large doses may cause gastrointestinal discomfort.

Environmental Hazards: No significant hazards known.

Label Elements:

- **Signal Word:** None
- **Hazard Statements:** Not hazardous under normal conditions of use.
- **Precautionary Statements:** Avoid dust generation, use with adequate ventilation, wash hands after handling.

3. Composition / Information on Ingredients

Folic Acid Food Grade is composed primarily of **Folic Acid (Pteroylglutamic Acid)**, having CAS No. **59-30-3**, with a purity of **not less than 98%**. It contains trace permissible excipients used for stabilization during production, but no hazardous or toxic impurities are present in significant concentrations.

4. First Aid Measures

Inhalation: Move to fresh air. If irritation persists, seek medical attention.

Skin Contact: Wash with soap and water. Seek medical advice if irritation occurs.

Eye Contact: Rinse thoroughly with plenty of water for several minutes. Seek medical help if irritation persists.

Ingestion: Rinse mouth with water. If symptoms persist, consult a physician.

Notes for Physician: Treat symptomatically; no specific antidote required.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry chemical powder.

Unsuitable Media: None known.

Specific Hazards: Combustion may produce oxides of nitrogen and carbon.

Protective Equipment: Use self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation. Use protective gloves and mask.

Environmental Precautions: Prevent material from entering drains or waterways.

Clean-Up Methods: Sweep up and collect in suitable container for disposal. Avoid raising dust.

7. Handling and Storage

Handling: Avoid inhalation of dust. Use in well-ventilated areas. Avoid contact with skin and eyes.

Storage: Store in a tightly closed container, in a cool, dry, and well-ventilated area away from light and moisture.

Storage Temperature: 15–25°C recommended.

Shelf Life: 3 years under proper storage conditions.

8. Exposure Controls / Personal Protection

Exposure Limits: No established occupational exposure limits.

Engineering Controls: Ensure good ventilation.

Personal Protective Equipment (PPE):

- **Respiratory:** Dust mask if dust is generated.
 - **Eye Protection:** Safety goggles.
 - **Skin Protection:** Gloves and lab coat.
 - **Hygiene Measures:** Wash hands before breaks and after handling.
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9. Physical and Chemical Properties

Appearance: Yellow to orange crystalline powder

Odor: Odorless

pH (1% Solution): 4.0–5.5

Solubility: Slightly soluble in water, insoluble in alcohol and ether

Melting Point: >250°C (decomposes)

Boiling Point: Not applicable

Density: Approx. 1.6 g/cm³

Flash Point: Not applicable

Stability: Stable under recommended storage conditions.

10. Stability and Reactivity

Reactivity: Non-reactive under normal conditions.

Chemical Stability: Stable under normal temperature and pressure.

Conditions to Avoid: Heat, light, moisture.

Incompatible Materials: Strong oxidizers, strong acids, and alkalis.

Hazardous Decomposition Products: Nitrogen oxides, carbon oxides.

11. Toxicological Information

Acute Toxicity: LD₅₀ (oral, rat) > 5000 mg/kg (low toxicity).

Skin Corrosion/Irritation: Non-irritating.

Eye Irritation: May cause mild irritation.

Sensitization: Not a known sensitizer.

Chronic Toxicity: Prolonged high intake may cause masking of Vitamin B12 deficiency.

Carcinogenicity / Mutagenicity / Reproductive Toxicity: Not classified as hazardous.

12. Ecological Information

Ecotoxicity: Not toxic to aquatic organisms.

Persistence & Degradability: Biodegradable.

Bioaccumulation: Not expected to bioaccumulate.

Mobility in Soil: Low mobility due to poor solubility.

Other Adverse Effects: None known.

13. Disposal Considerations

Product Disposal: Dispose of according to local, regional, or national regulations.

Container Disposal: Clean containers before reuse or disposal. Avoid release to the environment.

14. Transport Information (Detailed)

UN Number: Not applicable (non-hazardous).

UN Proper Shipping Name: Folic Acid, Food Grade (Non-Hazardous Material).

Transport Hazard Class: Not classified as dangerous goods under transport regulations.

Packing Group: Not applicable.

Environmental Hazards: None known.

Special Precautions for User:

- Keep container tightly closed.
- Avoid direct sunlight and moisture during transit.
- Use covered and clean transportation vehicles.
- Ensure containers are properly labeled and secured.
Transport in Bulk (According to Annex II of MARPOL and the IBC Code): Not regulated for bulk transport.

Regulatory Transport Classifications:

- **ADR/RID (Europe):** Not classified as dangerous goods.
- **IMDG (Maritime):** Not regulated as hazardous material.
- **IATA (Air):** Not regulated as hazardous material.
- **DOT (US):** Not hazardous under transportation regulations.

15. Regulatory Information

Regulatory Status:

- Listed in food additive and nutritional supplement regulations.
- Complies with Food Grade standards (FCC/USP).
- Not listed as a controlled or hazardous substance under major international regulations.

16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and experience. It is intended to describe the product with regard to safety requirements and should not be construed as guaranteeing specific properties.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.