

Material Safety Data Sheet (MSDS)

Product Name: DL Malic 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:** DL-Malic Acid
- **Grade:** Food Grade
- **Chemical Name:** DL-Hydroxybutanedioic Acid
- **CAS No.:** 617-48-1
- **Molecular Formula:** $C_4H_6O_5$
- **Recommended Use:** Food additive, acidity regulator, flavor enhancer

2. Hazard Identification

- **Classification:** Not classified as hazardous under GHS
- **Potential Hazards:**
 - May cause mild irritation to eyes, skin, and respiratory tract
 - Prolonged exposure may cause discomfort

Signal Word: None

Hazard Statements: None required

3. Composition / Information on Ingredients

- **Substance:** DL-Malic Acid
- **Purity:** ≥ 99.0% (Food Grade)
- **CAS No.:** 617-48-1
- **EC No.:** 210-514-9

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with clean water for at least 15 minutes.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Consult a physician if discomfort occurs.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂
- **Specific Hazards:** Decomposition may produce carbon oxides
- **Protective Equipment:** Self-contained breathing apparatus recommended

6. Accidental Release Measures

- Avoid dust formation
- Sweep up and collect in suitable container
- Wash spill area with water
- Use appropriate personal protective equipment

7. Handling and Storage

- **Handling:**
 - Avoid inhalation of dust
 - Use in well-ventilated areas
- **Storage:**
 - Store in a cool, dry place
 - Keep container tightly closed

- Protect from moisture and direct sunlight

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment (PPE):**
 - Gloves: Food-grade or chemical-resistant gloves
 - Eye Protection: Safety goggles
 - Respiratory Protection: Dust mask if necessary

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Taste:** Acidic
- **pH (10% solution):** 2.2 – 2.6
- **Solubility:** Soluble in water
- **Melting Point:** ~130°C
- **Boiling Point:** Decomposes
- **Bulk Density:** Approx. 0.8 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong oxidizing agents, strong bases
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Skin Irritation:** May cause mild irritation
- **Eye Irritation:** May cause redness or discomfort
- **Chronic Effects:** No known long-term adverse effects when used as intended

12. Ecological Information

- **Eco-toxicity:** Not expected to be harmful to aquatic life
- **Biodegradability:** Readily biodegradable
- **Bioaccumulation:** Not expected

13. Disposal Considerations

- Dispose of product and packaging according to local, regional, and national regulations
- Small quantities may be diluted with water before disposal

14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Transport Regulations:

- **ADR/RID (Road/Rail):** Not regulated
- **IMDG (Sea):** Not regulated
- **IATA (Air):** Not regulated

Special Transport Precautions:

- Protect from moisture during transport
- Ensure packaging is intact and properly sealed
- Avoid exposure to excessive heat and humidity

Environmental Hazards:

- Not a marine pollutant
- No special environmental precautions required

15. Regulatory Information

- Complies with Food Safety standards when used as specified
- Approved as food additive (INS 296 / E296)

- Complies with applicable food and chemical regulations
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16. Other Information

- **Disclaimer:**

The information contained herein is based on current knowledge and is intended for guidance only. It does not constitute a guarantee of specific properties and does not establish a legally valid contractual relationship.

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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.