

Material Safety Data Sheet (MSDS)

Malic Acid

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Malic Acid
- **Chemical Formula:** C₄H₆O₅
- **CAS No:** 6915-15-7
- **Synonyms:** Hydroxybutanedioic acid; 2-Hydroxysuccinic acid
- **Recommended Use:** Used in food and beverages as an acidulant, in cosmetics, pharmaceuticals, and as an intermediate in chemical synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Eye Irritation (Category 2A)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes serious eye irritation
- **Precautionary Statements:**
 - Wear protective gloves and eye protection
 - Wash thoroughly after handling
 - If in eyes: rinse cautiously with water for several minutes

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Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 99\%$

Section 4: First Aid Measures

- **Inhalation:** Remove person to fresh air. If discomfort occurs, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical advice.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Emits carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use protective equipment.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up and collect in suitable container. Wash area with water to prevent residue.

Section 7: Handling and Storage

- **Handling:** Avoid contact with eyes and skin. Use with adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from moisture.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Safety goggles, protective gloves, protective clothing; dust mask if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** characteristic

- **Melting Point:** 131 - 133 °C
- **Boiling Point:** Decomposes before boiling
- **Flash point:** 203 °C
- **Solubility:** Soluble in water and ethanol
- **Molecular Weight:** 134.09 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong bases.
- **Hazardous Decomposition Products:** Carbon oxides.
- **Conditions to Avoid:** Excessive heat, moisture.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes serious eye irritation. Oral LD50 (rat): ~1,600 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause irritation to mucous membranes.

Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be hazardous to the environment.
- **Persistence and Degradability:** Readily biodegradable.

- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Soluble and mobile in water.

Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Avoid release into the environment.

Section 14: Transport Information

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

Section 15: Regulatory Information

- Listed on major chemical inventories (TSCA, EINECS, etc.).
- Complies with Indian chemical safety regulations.
- Classified as hazardous under GHS for eye irritation.

Section 16: Other Information

Disclaimer: The information provided is believed to be correct but does not claim to be exhaustive. Users must verify suitability under actual use conditions. Triveni Chemicals disclaims liability for damage resulting from handling or contact.

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