



Material Safety Data Sheet

L-Malic Acid MSDS

1. SUBSTANCE IDENTIFICATION

- 1.1. Product Name: [L-Malic Acid](#)
- 1.2. Description: L-Malic Acid is a dicarboxylic acid manufactured through double hydration of maleic anhydride.
- 1.3. Chemical Formula: C₄H₆O₅
- 1.4. Molecular weight: 134.09
- 1.5. CAS #: 97-67-6
- 1.6. EINECS #: 230-022-8
- 1.7. Manufactured by: Foodchem International Corporation, Shanghai China.
- 1.8. Supplied by: Foodchem International Corporation, Shanghai China.
- 1.9. Usage: In food as Acidulants

2. Composition

- 2.1. L-Malic Acid: 99.0% min
- 2.2. Hazardous impurities: Residue on ignition 0.05% max, Chloride 0.004% max, Sulphate 0.02% max

3. Physical/Chemical Characteristics

- 3.1. Physical State: powder
- 3.2. Appearance: White crystals or crystalline powder
- 3.3. Odor: Odorless
- 3.4. pH: Not available
- 3.5. Melting point/range: 131.0-133.0 ° C
- 3.6. Boiling point: Not available
- 3.7. Bulk density: 4.6 g/L
- 3.8. Solubility: Soluble in Water

4. Stability/Reactivity

- 4.1. Chemical Stability: Stable under normal temperatures and pressures
- 4.2. Shelf Life: 24 months period
- 4.3. Hazardous decomposition: Carbon dioxide, carbon monoxide
- 4.4. Hazardous polymerization: Will not occur
- 4.5. Incompatible with: Strong oxidizing agents, reducing agents, bases, alkali metals

5. Handling/Storage

- 5.1. Storage: Kept in dry, cool, and shaded place with original packaging, avoid moisture, store at room temperature.
- 5.2. Handling precaution: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust.

6. Exposure Control

- 6.1. Engineering Controls: Safety shower and eye bath. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations below their respective threshold limit value.
- 6.2. Respiratory protection: NIOSH/MSHA or European Standard EN 159 approved respirator
- 6.3. Eye Protection: Protective eyeglasses or chemical safety goggles
- 6.4. Skin Protection: Wear appropriate protective gloves and clothes to minimize skin contact.
- 6.5. Other: Consult professionals if L-Malic Acid need to be handled under some special conditions.



7. Hazards Identification

- 7.1. Hazardous overview: L-Malic Acid is Slightly hazardous in case of inhalation, skin contact, ingestion or eye contact.
- 7.2. Contact with eyes: May cause eye irritation.
- 7.3. Contact with skin: May cause skin irritation.
- 7.4. Ingestion: May cause irritation of the digestive tract.
- 7.5. Inhalation: May cause respiratory tract irritation.
- 7.6. Other: Not Applicable

8. First Aid Measures

- 8.1. Contact with eyes: Flush immediately with plenty of water for 25 minutes and seek medical advice
- 8.2. Contact with skin: Wash the affected area with water, remove contaminated clothing and launder before re-use. Seek medical advice if irritation develops or persists.
- 8.3. Ingestion: Rinse mouth thoroughly with water and drink water afterwards.
- 8.4. Inhalation: Remove from exposure, move to fresh air and seek medical advice immediately.

9. Fire and Explosion Data

- 9.1. General information: May be combustible at high temperature.
- 9.2. Flash point: 153.3 ° C
- 9.3. Ignition control: Avoid ignition sources where L-Malic Acid dust might be generated
- 9.4. Dust control: Keep the handling area with adequate ventilation
- 9.5. Extinguishing Media: Not applicable
- 9.6. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container

10. Transport Information

- 10.1. No special requirements and no restrictions on transportation by land, sea or air.

11. Ecological Information

- 11.1. L-Malic Acid is fully biodegradable and the products of degradation are not toxic.

12. Other Information

- 12.1. This Safety Data Sheet of L-Malic Acid is based upon a limited review of Foodchem International Corporation files and standard Toxicological handbooks. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Foodchem International Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Foodchem International Corporation has been advised of the possibility of such damages.

Website:<http://www.foodchemadditives.com>

E-Mail: inquiry@foodchem.cn
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