Safety Data Sheet

1. Identification

Product Name:	Malic Acid — Bulk Food Grade
Synonyms:	DL-Malic acid, Hydroxybutanedioic acid, E296
Recommended Use:	Food additive (acidulant, flavour enhancer) for foods, beverages and supplements.
Restrictions on Use:	None known for food use within regulatory limits.
Supplier:	LiquidShop (Liquid Solution), 613 Rte du Président-Kennedy, porte 6, Lévis, QC G6C 1J6, Canada
Contact:	info@liquidsolution.ca · liquidshop.ca
Emergency Telephone:	Centre antipoison du Québec: 1-800-463-5060 (24 h)

2. Hazard Identification

Classification:	Serious eye damage / eye irritation, Category 2 (WHMIS 2015 / GHS).
Pictogram:	GHS07 (exclamation mark)
Signal Word:	Warning
Hazard Statements:	H319: Causes serious eye irritation.
Precautionary Statements:	P264: Wash hands thoroughly after handling. P280: Wear eye protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.
Other Hazards:	Fine dust dispersed in air may form combustible dust concentrations.

3. Composition / Information on Ingredients

Substance:	DL-Malic acid
CAS No.:	6915-15-7
EC No.:	230-022-8
Molecular Formula / Weight:	C4H6O5 / 134.09 g/mol
Concentration:	≥ 99.0 %

4. First-Aid Measures

Inhalation:	Move to fresh air. Seek medical attention if symptoms persist.
Skin Contact:	Wash with soap and water.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention.
Ingestion:	Rinse mouth with water. Seek medical attention if large amounts are swallowed and symptoms occur.
Symptoms / Effects:	Causes serious eye irritation (redness, pain, tearing). Dust may irritate the respiratory tract and skin.

5. Fire-Fighting Measures

Extinguishing Media:	Water spray, foam, dry chemical or CO2.
Specific Hazards:	Not flammable. Fine dust may form combustible mixtures with air. Thermal decomposition may release oxides of carbon.
Protective Equipment:	Self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions:	Avoid dust formation and contact with eyes. Ensure adequate ventilation.
Environmental Precautions:	Avoid release of large quantities to drains and surface water.
Clean-up:	Sweep or vacuum up and place in a suitable closed container for disposal. Avoid generating dust.

7. Handling and Storage

Handling:	Handle in accordance with good manufacturing and hygiene practices. Avoid dust formation and contact with eyes.
Storage:	Store in a cool, dry place in tightly closed containers, protected from moisture. Keep away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limits:	No occupational exposure limits established. Nuisance dust limits apply.
Engineering Controls:	General or local exhaust ventilation to control dust.
Eye Protection:	Tightly fitting safety goggles.
Skin Protection:	Food-grade gloves and clean work clothing.
Respiratory Protection:	Dust mask (N95) if dust is generated.

9. Physical and Chemical Properties

Appearance:	White or nearly white crystals
Odour:	Odourless or almost odourless
Taste:	Tart, acidic
pH:	Acidic in aqueous solution
Solubility:	Freely soluble in water; soluble in ethanol
Flammability:	Not flammable

10. Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Excessive heat, moisture, dust generation.
Incompatible Materials:	Strong oxidizing agents, strong bases.
Hazardous Decomposition:	Oxides of carbon.

11. Toxicological Information

Acute Oral Toxicity:	Low acute oral toxicity.
Irritation:	Causes serious eye irritation. Dust may cause mild skin and respiratory irritation.
Sensitization / CMR:	Not classified as a sensitizer, nor as carcinogenic, mutagenic or toxic to reproduction.

12. Ecological Information

Ecotoxicity:	Not expected to be harmful to aquatic organisms at normal use levels.
Persistence:	Expected to be biodegradable.
Bioaccumulation:	Not expected to bioaccumulate.

13. Disposal Considerations

Disposal:	Dispose of in accordance with local, provincial and federal regulations. Empty packaging may be recycled.

14. Transport Information

TDG / DOT / IATA / IMDG:	Not regulated as dangerous goods.

15. Regulatory Information

Canada:	Classified as a hazardous product under WHMIS 2015 (HPR): Eye irritation, Category 2. Permitted food additive in Canada (Health Canada Lists of Permitted Food Additives).

16. Other Information

Date of Issue:	2026-10-08
Revision:	00

The information in this Safety Data Sheet is believed to be accurate as of the date of issue. It is provided for safe handling, use and disposal and does not constitute a warranty or quality specification.