SAFETY DATA SHEET

CITRIC ACID, ANHYDROUS, FOOD GRADE

Article No: S25255
Effective Date: Oct 29, 2026
Version: 2.0

1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name	**Citric Acid, Anhydrous, Food Grade**	**CAS Number**	77-92-9
Synonyms	2-Hydroxy-1,2,3-propanetricarboxylic acid, Anhydrous Citric Acid	**Formula**	$C_6H_8O_7$
Supplier Details	**Blendmagic Products, LLC** | PO Box 220, East Islip, NY 11730 | Tel: (631) 572-3381 / (888) 605-4332		
Manufacturer	Sunshine Biotech International Co., LTD | 188 Moo4 Tambol Thatoom, Srimahaphote, Prachinburi 25140, Thailand		
Recommended Use	Food ingredient, acidulant, pH adjuster, beverage additive, laboratory and general industrial applications.		
Emergency Numbers	**24/7 CHEMTREC (USA):** (800) 424-9300 | **International:** +1 (703) 527-3887		

2. HAZARDS IDENTIFICATION

Signal Word	**WARNING**
GHS Classification	• Eye Irritation – Category 2A (H319) • Combustible Dust Hazard (OSHA HazCom 2012)
Hazard Statements	Causes serious eye irritation. May form combustible dust concentrations in air during handling/processing.

GHS HAZARD



Precautionary Statements:

Prevention:

- Wash hands and face thoroughly after handling.
- Wear eye protection, face protection, and protective gloves.
- Prevent dust accumulation to minimize explosion hazards.
- Do not eat, drink, or smoke when using this product.

Response & Storage:

- **IF IN EYES:** 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.
- Store in a cool, dry, well-ventilated area away from incompatible substances.

Combustible Dust Warning: Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source presents a potential dust explosion hazard.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS Number	Weight %	GHS Classification
Citric Acid, Anhydrous, Food Grade	77-92-9	100%	Eye Irrit. 2A (H319); Combustible Dust

4. FIRST AID MEASURES

- **Inhalation:** Move exposed individual to fresh air. Loosen clothing as necessary. Seek medical advice if discomfort or irritation persists. If breathing is difficult, give oxygen.
- **Skin Contact:** Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation persists.
- **Eye Contact:** Flush exposed eye gently using water for 15–20 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek immediate medical attention if eye irritation persists.
- **Ingestion:** Rinse mouth thoroughly. Do NOT induce vomiting. Have exposed individual drink sips of water. Seek medical attention if discomfort persists.
- **Most Important Symptoms:** Eye irritation, lacrimation, redness, nausea, headache, coughing, or shortness of breath from dust exposure.

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Water spray, dry chemical, carbon dioxide (CO_2), or alcohol-resistant foam appropriate for adjacent combustible materials.
- **Specific Fire Hazards:** Thermal decomposition releases Carbon Monoxide (CO), Carbon Dioxide (CO_2), and irritating vapors. Fine dust dispersed in air creates an explosion hazard.
- **Protective Actions:** Wear NIOSH-approved positive-pressure SCBA and full protective firefighting gear. Move containers away from fire area if feasible. Use spark-proof tools.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Eliminate all ignition sources.
- **Environmental Precautions:** Prevent material from entering drains, sewers, or water courses. High organic concentrations in waterways may exert an oxygen demand.
- **Clean-Up Methods:** Vacuum or sweep up solid spill avoiding dust generation. Place into properly labeled recovery/disposal containers. Do not clear dust with compressed air. Flush trace residue with water.

7. HANDLING AND STORAGE

Safe Handling Precautions:
Minimize dust generation and static electricity build-up. Provide local exhaust ventilation in processing areas. Wash hands thoroughly after handling. Avoid contact with eyes and skin.

Storage Conditions:
Store in a cool, dry, well-ventilated area away from extreme heat, open flames, and strong oxidizers. Keep containers tightly closed. Store away from strong bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Standard / Agency	Total Dust (Inhalable)	Respirable Fraction
OSHA PEL (TWA)	15 mg/m³	5 mg/m³
ACGIH TLV (TWA)	10 mg/m³	3 mg/m³

Engineering Controls: Maintain local exhaust ventilation and dust collection systems to ensure airborne levels stay below exposure limits. Emergency eyewash facilities required.

Personal Protective Equipment (PPE):
• **Eye/Face:** Safety glasses with side shields or chemical goggles.
• **Skin:** Chemical-resistant gloves and protective work clothing.
• **Respiratory:** NIOSH dust respirator when high dust concentrations are present.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White solid / Crystalline powder
Odor	Odorless
pH Value	1.8 (5% aqueous solution @ 20°C)
Melting Point	153°C (307°F)
Boiling Point	Decomposes above 175°C
Flash Point	Not applicable

Density	1.665 g/cm³ @ 20°C
Solubility in Water	590 g/L (59% @ 20°C)
Molecular Weight	192.12 g/mol
Partition Coeff.	Log Pow = -1.72
Auto-Ignition Temp	500°C (932°F) (Dust cloud)
Explosive Props	Dust explosion hazard

10. STABILITY AND REACTIVITY

- **Reactivity:** Reacts with strong alkalis/bases and strong oxidizers. Non-reactive under normal ambient storage conditions.
- **Chemical Stability:** Stable under recommended storage conditions. Protect from moisture to avoid caking.
- **Possibility of Hazardous Reactions:** Exothermic reaction with strong bases and oxidizers. Contact with nitric acid or sulfuric acid can cause violent reaction.
- **Incompatible Materials:** Strong oxidizing agents, strong bases, nitric acid, sulfuric acid, metal nitrates.
- **Hazardous Decomposition Products:** Carbon Monoxide (CO), Carbon Dioxide (CO_2), acrid smoke.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity Endpoint Values:
• **Oral LD50 (Rat):** 6,730 mg/kg.
• **Oral LD50 (Mouse):** 5,400 mg/kg.
• **Dermal LD50 (Rat):** > 2,000 mg/kg.

Irritation & Carcinogenicity:
• **Eye Irritation:** Category 2A (Irritating to eyes, OECD 405).
• **Skin Irritation:** Non-irritating to intact skin.
• **Carcinogenicity:** Not listed by IARC, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish LC50 (96h, *Lepomis macrochirus*): 1,516 mg/L; Daphnia magna EC50 (24h): 120 mg/L. Low acute aquatic toxicity.
Persistence & Degradability: Readily biodegradable in water and soil (98% removal in 2 days). Low bioaccumulation potential (Log Pow = -1.72).

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local, state, provincial, and federal regulations (US 40 CFR 262.11). Non-hazardous food chemical waste. Do not discharge directly into municipal sewage systems or waterways without neutralization.

14. TRANSPORT INFORMATION

US DOT (Ground)	Not Regulated (Non-hazardous food chemical)
TDG / IMDG / IATA	Not Regulated
ERG Guide Number	Not applicable

15. REGULATORY INFORMATION

US Federal Regulations: TSCA Inventory Listed. SARA 311/312 Hazards: Acute Health Hazard (Eye Irritant). SARA 313: Not listed. CERCLA / RCRA: Not listed. California Prop 65: Not listed. FDA Status: Generally Recognized as Safe (GRAS) under 21 CFR 184.1033.
Canadian Regulations: Listed on Canadian DSL. WHMIS 2015 Classified under HPR: Serious Eye Irritation - Category 2A.

16. OTHER INFORMATION

NFPA 704 Rating: Health: 1 | Flammability: 1 | Instability: 0
HMIS Rating: Health: 2 | Flammability: 1 | Physical Hazard: 0

Effective Date: October 29, 2026 (Version 2.0)
Prepared By: Blendmagic Products, LLC Technical Dept.