SAFETY DATA SHEET

ACETIC ACID 99-100% FOOD GRADE (GLACIAL VINEGAR)

MSDS No: BCV-99ACETIC
Effective Date: Oct 29, 2026
Version: 2.0

1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name	**Acetic Acid 99-100% Food Grade**	**CAS Number**	64-19-7
Synonyms	Glacial Acetic Acid, Vinegar 99%, Ethanoic Acid	**Formula**	CH_3COOH / $C_2H_4O_2$
Supplier Details	**Blendmagic Products, LLC** | PO Box 220, East Islip, NY 11730 | Tel: (631) 572-3381 / (888) 605-4332		
Recommended Use	Food processing, acidity regulator, industrial chemical synthesis, laboratory reagent.		
Emergency Numbers	**24/7 CHEMTREC (USA):** (800) 424-9300 | **International:** +1 (703) 527-3887		

2. HAZARDS IDENTIFICATION

Signal Word	**DANGER**
GHS Classification	• Flammable Liquids – Category 3 (H226) • Skin Corrosion/Irritation – Category 1A (H314) • Serious Eye Damage/Eye Irritation – Category 1 (H318) • Acute Toxicity, Inhalation – Category 4 (H332)
Hazard Statements	Flammable liquid and vapor. Causes severe skin burns and eye damage. Harmful if inhaled.

GHS PICTOGRAMS



Precautionary Statements:

Prevention:

- Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
- Keep container tightly closed. Ground and bond container and receiving equipment.
- Do not breathe vapors, mists, or spray. Wash exposed skin thoroughly after handling.
- Wear protective gloves, protective clothing, eye protection, and face protection.

Response & Storage:

- **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash clothing before reuse.
- **IF IN EYES:** Rinse cautiously with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
- **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
- Store locked up in a cool, well-ventilated place. Keep container tightly closed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS Number	Weight %	GHS Classification
Acetic Acid (Glacial)	64-19-7	Min 99.85%	Flam. Liq. 3 (H226); Skin Corr. 1A (H314); Eye Dam. 1 (H318)

4. FIRST AID MEASURES

- **Inhalation:** Move to fresh air. If breathing is difficult or stopped, give oxygen or artificial respiration. Get immediate medical attention. Observe for latent pulmonary edema (up to 48 hours).
- **Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Get immediate medical attention. Wash clothing before reuse.
- **Eye Contact:** Flush eyes immediately with water for at least 15 minutes, holding eyelids open. Call an ophthalmologist or doctor immediately. Do not apply chemical neutralizing agents.
- **Ingestion:** If conscious, give 2 glasses of water. Do NOT induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious person.
- **Note to Physicians:** Material is a severe chemical corrosive. Observe for stricture or pulmonary edema.

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide (CO_2). Cool fire-exposed containers with water spray. Do NOT use solid water stream as it may scatter fire.
- **Fire & Explosion Hazards:** Flammable liquid and vapor. Vapors may travel to ignition source and flash back. Thermal decomposition releases Carbon Monoxide (CO) and Carbon Dioxide (CO_2).
- **Protective Actions:** Wear positive-pressure SCBA and full chemical-resistant turnout gear. Dike runoff water.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Eliminate all ignition sources. Avoid contact with skin and eyes. Wear full chemical protective suit, boots, gloves, and respiratory protection. Isolate area for 800m if tank is involved.
- **Environmental Precautions:** Prevent material from entering sewers, surface waters, or groundwater. CERCLA RQ: 5,000 lbs (2,270 kg). Report spills to National Response Center (800-424-8802).
- **Clean-Up Methods:** Absorb spill with inert material (sand, silica gel, acid binder). Neutralize carefully with weak alkali (sodium bicarbonate) if safe. Use non-sparking tools. Collect in plastic drums for disposal.

7. HANDLING AND STORAGE

Safe Handling Precautions:
Avoid contact with eyes, skin, and clothing. Do not breathe vapors/mists. Use only in well-ventilated areas with explosion-proof equipment. Ground and bond containers when transferring. No smoking.

Storage Conditions:
Store locked up in cool, dry, well-ventilated location above 17°C (62.6°F) to prevent freezing/solidification. Store away from direct sunlight, heat, sparks, and incompatible materials (bases, oxidizers).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Agency / Source	TWA (8-hr)	STEL (15-min)	IDLH Level
OSHA PEL	10 ppm (25 mg/m³)	Not established	50 ppm
ACGIH TLV	10 ppm	15 ppm	50 ppm
NIOSH REL	10 ppm (25 mg/m³)	15 ppm (37 mg/m³)	50 ppm

Engineering Controls: Explosion-proof local exhaust ventilation to maintain airborne levels below exposure limits. Safety eyewash and shower required in work area.

PPE Requirements:
- **Eye/Face:** Chemical splash goggles + full face shield.
- **Skin:** Neoprene or butyl rubber impervious gloves/apron.
- **Respiratory:** Air-purifying respirator with organic vapor cartridge.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	**Density / Sp. Gr.**	1.049 g/cm³ @ 20°C
Odor	Strong, pungent vinegar odor	**Vapor Pressure**	15.7 mm Hg @ 20°C
pH Value	2.4 @ 60 g/L aqueous	**Explosive Limits**	4.0 Vol% (Lower) – 19.9 Vol% (Upper)
Melting Point	16.6°C (62°F) – Freezes	**Auto-Ignition Temp**	463°C (865°F)
Boiling Point	118°C (244.4°F)	**Solubility in Water**	Miscible (100%)
Flash Point	39°C (102°F) Closed Cup	**Partition Coeff.**	Log Pow = -0.17

10. STABILITY AND REACTIVITY

- **Reactivity:** Corrosive acid. Flammable liquid and vapor. Reacts exothermically with strong bases.
- **Chemical Stability:** Stable under recommended storage conditions above freezing temperature (17°C / 62.6°F). Hygroscopic.
- **Possibility of Hazardous Reactions:** Exothermic reaction with strong bases. Reacts with peroxides, nitric acid, and permanganates. Flammable hydrogen gas (H_2) may be liberated on contact with reactive metals (zinc, aluminum, iron).
- **Incompatible Materials:** Strong bases, strong oxidizers, amines, nitric acid, peroxides, reactive metals (aluminum, zinc, copper).
- **Hazardous Decomposition Products:** Carbon Monoxide (CO), Carbon Dioxide (CO_2), Acrid acetic acid vapors.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity Endpoint Values:
• **Oral LD50 (Rat):** 3,310 mg/kg.
• **Inhalation LC50 (Rat, 4h):** > 40,000 mg/m³ (vapor).
• **Dermal LD50 (Rabbit):** 1,060 mg/kg.

Corrosivity & Specific Effects:
• **Skin Corrosion:** Category 1A (Severe tissue burns, OECD 404).
• **Eye Damage:** Category 1 (Irreversible corneal destruction).
• **Carcinogenicity:** Not listed by IARC, NTP, ACGIH, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish LC50 (96h, *Oncorhynchus mykiss*): > 300.82 mg/L; Daphnia magna EC50 (48h): > 300.82 mg/L. May cause localized pH drop harmful to aquatic life.
Persistence & Mobility: Readily biodegradable (OECD 301C). High mobility in soil due to water solubility. Low bioaccumulation potential (Log Pow = -0.17).

13. DISPOSAL CONSIDERATIONS

EPA Waste Codes: D002 (Corrosive), D001 (Ignitable). Neutralize cautiously or dispose of at a licensed hazardous waste management facility in compliance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

UN Number	UN2789
Proper Shipping	ACETIC ACID, GLACIAL
Hazard Class / PG	Class 8 (Corrosive) / PG II
Subsidiary Risk	Class 3 (Flammable Liquid)

15. REGULATORY INFORMATION

US Federal: TSCA Inventory Listed. CERCLA Hazardous Substance (RQ: 5,000 lbs / 2,270 kg). SARA 311/312: Fire Hazard, Acute Health Hazard.
State Right-to-Know: Listed in PA, NY, NJ, MA, IL, RI.
Canadian WHMIS 2015: Classified as Flammable Liquid Cat 3, Skin Corrosion Cat 1A, Eye Damage Cat 1 under HPR.

16. OTHER INFORMATION

NFPA 704 Rating: Health: 3 | Flammability: 2 | Instability: 0
HMIS Rating: Health: 3 | Flammability: 2 | Physical Hazard: 0

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