

MATERIAL SAFETY DATA SHEET (MSDS)

Fee Brothers Cocktail Bitters

Date of Issuing: 2/27/2025

Section 1: Identification

- **Product Name:** Fee Brothers Cocktail Bitters
 - **Identified Use:** Flavoring agent
 - **Manufacturer:** Fee Brothers, Inc.
 - **Address:** 453 Portland Ave
 - **Emergency Telephone:** 585-544-9530
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Section 2: Hazards Identification

- **Classification of the Substance or Mixture:**
 - GHS Classification: Not classified as hazardous under GHS criteria.
 - **Label Elements:**
 - **Hazard Statements:** None
 - **Precautionary Statements:**
 - **Prevention:** Not applicable for a non-hazardous food product.
 - **Response:** Not applicable for a non-hazardous food product.
 - **Storage:** Store in a cool, dry place away from direct sunlight.
 - **Disposal:** Dispose of according to local regulations.
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Section 3: Composition/Information on Ingredients

- **Substance:** Food Product with Natural Flavors (Ethyl Alcohol and/or Propylene Glycol), Glycerin, Water, Acids, and Colors (Artificial Colors and/or Caramel Color).
- **Ingredients:**
 - **Ethyl Alcohol (Ethanol)**
 - CAS No.: 64-17-5
 - EC No.: 200-578-6
 - **Glycerin (Glycerol)**
 - CAS No.: 56-81-5
 - EC No.: 200-289-5
 - **Propylene Glycol (PPG)**

- CAS No.: 57-55-6
 - EC No.: 200-338-0
 - **Artificial Colors & Caramel Color:** GRAS status, used in small quantities.
 - **Acids:** Citric, Malic, and Tartaric Acid, GRAS status, used in small quantities.
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Section 4: First Aid Measures

- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 - **Skin Contact:** Wash with plenty of soap and water. Wash clothing before reuse.
 - **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if unwell. Never give anything by mouth to an unconscious person.
 - **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
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Section 5: Firefighting Measures

- **Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.
 - **Special Firefighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
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Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment as required. Avoid contact with skin, eyes, and clothing.
 - **Environmental Precautions:** Prevent entry into sewers and waterways.
 - **Cleanup Procedures:** Absorb spill with inert material. Collect and dispose of according to local regulations.
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Section 7: Handling and Storage

- **Handling:** Handle in accordance with good hygiene and safety procedures.
- **Storage:** Store in a cool, dry place away from direct sunlight.
- **Storage Temperature:** 40-80°F.

Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Use in a well-ventilated area.
 - **Personal Protective Equipment:**
 - **Eye Protection:** Safety glasses/goggles
 - **Hand Protection:** Gloves
 - **Skin and Body Protection:** Protective clothing
 - **Respiratory Protection:** Not required under normal conditions of use.
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Section 9: Physical and Chemical Properties

- **Physical State:** Liquid
 - **Odor:** Fragrant of spices, dominated by named flavor.
 - **Boiling Point/Boiling Range:**
 - Ethyl Alcohol: 78.37°C (173.1°F)
 - Glycerin: 290°C (554°F)
 - Propylene Glycol: 188.2°C (370.8°F)
 - **Flammability:**
 - Ethyl Alcohol: Flammable liquid and vapor
 - Glycerin: Non-flammable
 - Propylene Glycol: May be combustible at high temperatures.
 - **Solubility in Water:**
 - Ethyl Alcohol: Completely miscible
 - Glycerin: Completely soluble
 - Propylene Glycol: Completely soluble
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Section 10: Stability and Reactivity

- **Reactivity:** Stable under normal conditions.
 - **Chemical Stability:** Stable under normal storage conditions.
 - **Possibility of Hazardous Reactions:** None under normal conditions.
 - **Conditions to Avoid:** Heat, sparks, open flames.
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Section 11: Toxicological Information

- **Ethyl Alcohol:**
 - Acute Toxicity: LD50 (oral, rat) = 7,060 mg/kg
 - Skin Corrosion/Irritation: Non-irritating
 - Serious Eye Damage/Irritation: Mildly irritating
 - **Glycerin:**
 - Acute Toxicity: LD50 (oral, rat) = >5,000 mg/kg
 - Skin Corrosion/Irritation: Non-irritating
 - **Propylene Glycol:**
 - Acute Toxicity: LD50 (oral, rat) = 20,000 mg/kg
 - Skin Corrosion/Irritation: Non-irritating
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Section 12: Ecological Information

- **Ecotoxicity:**
 - Ethyl Alcohol: Harmful to aquatic life with long-lasting effects.
 - Glycerin: Not expected to be harmful to aquatic organisms.
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Section 13: Disposal Considerations

- **Disposal Methods:** Dispose of in accordance with local regulations.
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Section 14: Transport Information

- **UN Number:**
 - Ethyl Alcohol: UN1170
 - Glycerin: Not applicable
 - Propylene Glycol: UN3082
 - **UN Proper Shipping Name:**
 - Ethyl Alcohol: Ethanol solutions
 - Glycerin: Not applicable
 - Propylene Glycol: Propylene Glycol
 - **Transport Hazard Class:**
 - Ethyl Alcohol: Class 3 - Flammable liquid
 - Glycerin: Not applicable
 - Propylene Glycol: Not classified
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Section 15: Regulatory Information

- **Regulatory Status:** This product complies with the relevant USA regulations.
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Section 16: Other Information

- **Date of Issuing:** 2/27/2025