

# MATERIAL SAFETY DATA SHEET

Agent: Apex Flavors  
Manufacturer: Apex Flavors  
Address: 1371 Brass Mill Rd. Suite A, Belcamp, MD 21017  
Phone: 410-565-6600  
Emergency Phone Number: Chemtrec: 1-800-424-9300

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## Section 1 Chemical Identification

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Loganberry Type, Natural & Artificial (<0.10% Artificial Topnote) # 357TTB

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## Section 2 Composition/Information of Ingredients

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**CAS#:** Proprietary Formula

**Fema#:** NA

**EINECS#:** NA

**Molecular:** NA

**Chemical Name:** NA

**Synonyms:** None

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## Section 3 First-Aid Measures

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**Eye Contact Aid:** Flush immediately with clean cold water. If irritation persists, call a physician.

**Skin Contact Aid:** Thoroughly wash the affected area with soap and water. Flush with large quantities of water. If irritation persists, call a physician.

**Inhalation Aid:** Remove individual to fresh air, contact physician if necessary.

**Ingestion Aid:** Administer water or milk to dilute. Contact a physician or local poison control.

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## Section 4 Fire Fighting Measures

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**Extinguishing Media:** CO2; Foam; Dry Chemical

**Special Fire Fighting Procedures:** Wear protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosive Hazards:** Not Established

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## Section 5 Accidental Release Measures

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**Procedure:** Remove any source of flame or sparks. If in a confined area, NIOSH approved respiratory protection may be required. Remove individuals from area if they do not have respiratory/dust protection. Spray material with water to prevent dusting and remove to an approved disposal container. Follow Federal, State and Local procedures for cleaning up of powder. Dispose in accordance with current laws and regulations.

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## Section 6 Handling and Storage

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**Storage/Handling:** This product should be stored in tightly closed, full container in a cool, dry area away from direct sunlight. Before opening and handling this flavor, consult your workplace safety officer and MSDS.

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## Section 7 Exposure Controls/Personal Protection

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**Eyes:** The use of goggles and a face shield is recommended.

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- Respiratory:** Respiratory protection is normally not required in well ventilated areas. However, NIOSH approved respiratory protection may be required when the material is rated toxic by inhalation or if the material is to be used in a confined area.
- Other Protective Devices:** Chemical resistant gloves are recommended (i.e. Nitrile gloves)
- Ventilation:** Ventilation meeting ACGIH Standards should be employed.
- Work/Hygienic Practices:** Use good personal hygiene practices. Limit exposure to product whenever possible. Wash any contaminated clothing or shoes before each use.

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### Section 8 Physical and Chemical Properties

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- Appearance and Odor:** A clear to straw colored colorless liquid with an aroma characteristic of loganberries.
- Hazardous Ingredients:** Ethyl alcohol (CAS# 64-17-5), Acetaldehyde (CAS# 75-07-0),
- Boiling Point (Deg C):** NA
- Melting Point (Deg C):** NA
- Vapor Density:** NA
- Vapor Pressure:** NA
- Specific Gravity (@ 20 C):** 0.9430 to 0.9630
- Specific Gravity (@ 25 C):** 0.9400 to 0.9600
- Refractive Index (@ 20 C):** 1.3880 to 1.4080
- Solubility Water:** Soluble
- Solubility Fat:** Insoluble
- Flash Point:** NA
- Flammability (solid,gas):** NA
- Autoflammability:** NA
- Explosive Properties:** NA
- Oxidizing Properties:** NA

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### Section 9 Stability and Reactivity

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- Hazardous Polymerization:** Will not occur
- Hazardous Decomposition Products:** None
- Materials and/or Conditions to avoid:** Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Stability:** Stable

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### Section 10 Toxicological Information

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- Threshold Limit Value (ACGIH TLV):** None Established
- Threshold Limit Value (OSHA PEL):** None Established
- Carcinogenicity:**
- NTP Monograph:** None Established
- ARC Monograph:** None Established
- Acute Toxicity Data:**
- Oral LD50:** None Established
- Dermal LD05:** Acetaldehyde 1930 mg/kg (Rat)

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**Inhalation LC50:** Ethyl alcohol 124.7 mg/L (Rat) 4h  
**Health Hazards (Acute and Chronic):**  
**Ingestion of large quantities:** None Established  
**Inhalation:** None Established  
**Skin Contact:** Liquid may be irritating  
**Eye Contact:** Causes serious eye irritation  
**Note:** The above effects are based on evaluation of individual components.  
**Other Effects:** None Established

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## Section 11 Ecological Information

**Biodegradability:** Not Determined  
**Aquatic Toxicity:** Toxic to aquatic life with long lasting effects.  
**Bioaccumulation Potential:** Ethyl alcohol -0.32 logPow Acetaldehyde 0.5 logPow

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## Section 12 Transport Information

**Proper Shipping Name:** EXTRACTS, FLAVOURING, LIQUID  
**UN#:** 1197  
**UN Pkg Group:** III  
**ERG#:** 127  
**Air/Steamer Transport Information:**  
**Air:** 3  
**Steamer:** 3  
**Required Labels:** FLAMMABLE LIQUID

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## Section 13 Other Information

### Hazardous Materials Identification System

<b>Health: 1</b>	<b>Flammability: 3</b>	<b>Reactivity: 0</b>	<b>Personal Protection: B</b>
<b>4-Extreme</b>	<b>3-High</b>	<b>2-Moderate</b>	<b>1-Slight</b>
			<b>0-No Significant Hazard</b>

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## Section 14 Regulatory

**R-Phase:**  
**S-Phase:**

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## Section 15 Conclusion

The information contained herein is based on data considered accurate and reliable. However, the data is provided without any warranty, expressed or implied regarding its correctness or accuracy. It is the user's responsibility both to determine safe conditions for use of this product, and to assume any liability for loss, injury, damage or expense resulting from the improper use of this product.

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## Section 16 Disclaimer

Apex Flavors, Inc.'s products are sold exclusively for use in food and drink for human consumption. These products have not been tested, nor have they been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, and electronic cigarettes or similar devices (collectively "E-Cigarettes"). In supplying this product(s), Apex Flavors, Inc. instructs, and purchasing recipient confirms, that this product(s) will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof. Recipients of our products that use them outside of their intended use of food or drink do so at their own risk and without warranty, either expressed or implied, from Apex Flavors, Inc. or its suppliers. The user assumes all liability for loss, injury, damage, or expense resulting from such uses.