

# MATERIAL SAFETY DATA SHEET

Agent: Apex Flavors  
Manufacturer: Apex Flavors  
Address: 1361 Brass Mill Rd. Suite E, Belcamp, MD 21017  
Phone: 410-565-6600  
Emergency Phone Number: Chemtrec: 1-800-424-9300

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## Section 1 Chemical Identification

Pumpkin Pie Type, Natural & Artificial # 252

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## Section 2 Composition/Information of Ingredients

CAS#: Proprietary Formula  
Fema#: NA  
EINECS#: NA  
Molecular: NA  
Chemical Name: NA  
Synonyms: None

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## Section 3 First-Aid Measures

**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

**Extinguishing Media:** In case of fire use dry sand, dry chemical or alcohol resistant foam for extinction.  
**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

**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

**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

**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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<b>Appearance and Odor:</b>	A clear light amber liquid with an aroma characteristic of
<b>Hazardous Ingredients:</b>	Ethyl Alcohol (CAS# 64-17-5), Cinnamic Aldehyde (CAS# 104-55-2)
<b>Boiling Point (Deg C):</b>	NA
<b>Melting Point (Deg C):</b>	NA
<b>Vapor Density:</b>	NA
<b>Vapor Pressure:</b>	NA
<b>Specific Gravity (@ 20 C):</b>	0.9290 to 0.9590
<b>Specific Gravity (@ 25 C):</b>	0.9260 to 0.9560
<b>Refractive Index (@ 20 C):</b>	1.3769 to 1.4069
<b>Solubility Water:</b>	Soluble
<b>Solubility Fat:</b>	Insoluble
<b>Flash Point:</b>	88 F. / 31 C
<b>Flammability (solid,gas):</b>	NA
<b>Autoflammability:</b>	NA
<b>Explosive Properties:</b>	NA
<b>Oxidizing Properties:</b>	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****Acute Toxicity Data:****Oral LD50:** Propylene Glycol - 20000 mg/kg. (Rat) Cinnamic Aldehyde 2200 mg/kg

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<b>Dermal LD05:</b>	Propylene Glycol - 20800 mg/kg (Rabbit) Cinnamic Aldehyde - 2000 mg/kg (Rabbit)
<b>Inhalation LC50:</b>	Ethyl Alcohol - 124.7 mg/L (Rat)
<b>Health Hazards (Acute and Chronic):</b>	
<b>Ingestion of large quantities:</b>	None Established
<b>Inhalation:</b>	None Established
<b>Skin Contact:</b>	Liquid may be irritating
<b>Eye Contact:</b>	Causes serious eye irritation and damage
<b>Note:</b>	The above effects are based on evaluation of individual components.
<b>Other Effects:</b>	None Established

<b>Section 11</b>	<b>Ecological Information</b>
<b>Biodegradability:</b>	Not Determined
<b>Aquatic Toxicity:</b>	Toxic to aquatic life with long lasting effects
<b>Bioaccumulation Potential:</b>	Ethyl Alcohol - -0.32 (log POW) Cinnamic Aldehyde - 2.22 (log POW)

<b>Section 12</b>	<b>Transport Information</b>
<b>Proper Shipping Name:</b> EXTRACTS, FLAVOURING, LIQUID	
<b>UN#:</b>	1197
<b>UN Pkg Group:</b>	III
<b>ERG#:</b>	127
<b>Air/Steamer Transport Information:</b>	
<b>Air:</b>	3
<b>Steamer:</b>	3
<b>Required Labels:</b>	FLAMMABLE LIQUID

<b>Section 13</b>	<b>Other Information</b>
<b>Hazardous Materials Identification System</b>	
<b>Health: 2 4-Extreme</b>	<b>Flammability: 2 3-High</b>
<b>Reactivity: 0 2-Moderate</b>	<b>Personal Protection: B 1-Slight 0-No Significant Hazard</b>

<b>Section 14</b>	<b>Regulatory</b>
<b>R-Phase:</b> 11-38-41-51/53	
<b>S-Phase:</b> 16-36/37/39	

<b>Section 15</b>	<b>Conclusion</b>
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<b>Section 16</b>	<b>Disclaimer</b>
Our ingredients have not been tested, nor have they been determined safe, for inhalation or use in any electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes, or other similar devices (collectively "E-Cigarettes") or in any E-Liquids used with E-Cigarettes. By receiving Apex Flavors, Inc. ingredients, the recipient confirms that they will not use these ingredients in connection with the manufacture and distribution of E-Cigarettes, E-Liquids or any component thereof. WE DISCLAIM, TO THE FULLEST EXTENT PERMITTED BY LAW, ALL WARRANTIES, EXPRESS OR IMPLIED, and disclaim all liability in connection with the use of our ingredients in connection with E-Cigarettes and E-Liquids. All such risks are	

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assumed by you and the user.