MATERIAL SAFETY DATA SHEET

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

Clove Leaf Oil - Pure, Undiluted, Therapeutic & Food Grade # 2325ING

Section 2	Composition/Information of Ingredients
CAS#:	Proprietary Formula
Fema#:	NA
EINECS#:	NA
Molecular:	NA
Chemical Name:	NA
Synonyms:	None
Section 3	First-Aid Measures
Eye Contact Aid	: Flush immediately with clean cold water. If irritation persists, call a physician.
Skin Contact Aic	I: 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.

Section 4 Fire	Fire Fighting Measures		
Extinguishing Media:	CO2; Foam; Dry Chemical		
Special Fire Fighting Procedures	: Wear protective clothing to prevent contact with skin and		
	eyes.		
Unusual Fire and Explosive Haza	urds: Not Established		

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.

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.
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.			
Section 8 Phys	sical and Chemical Properties			
Appearance and Odor:	Colorless to pale yellow with an aroma characteristic of clove.			
Hazardous Ingredients:				
Boiling Point (Deg C):	NA			
Melting Point (Deg C):	NA			
Vapor Density:	NA			
Vapor Pressure:	NA			
Specific Gravity (@ 20 C)				
Specific Gravity (@ 25 C)				
Refractive Index (@ 20 C)				
Solubility Water:	Soluble			
Solubility Fat:	Insoluble			
Flash Point:	NA			
Flammability (solid,gas):	NA			
Autoflammability:	NA			
Explosive Properties:	NA			
Oxidizing Properties:	NA			
Section 9	Stability and Reactivity			
Hazardous Polymerization				
Hazardous Decompositio	n Products: None			
Materials and/or Conditio	ns to avoid: None			
Stability:	Stable			
Section 10	Toxicological Information			
•	CGIH TLV): None Established			
Threshold Limit Value (OS	SHA PEL): None Established			

None Established

None Established

None Established None Established

None Established

Carcinogencity: NTP Monograph:

Oral LD50:

Dermal LD05: Inhalation LC50:

ARC Monograph

Acute Toxicity Data:

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Health Hazards (Acute	and Chronic):				
Ingestion of large quantities:		None Established			
Inhalation:	Ν	None Established			
Skin Contact:	Li	Liquid my be irritating			
Eye Contact:	Li	iquid my be irritating	I		
Note:		he above effects are omponents.	e based on evaluation of individual		
Other Effects:	Ν	None Established			
Section 11		cal Information			
Biodegradability:	Not Determ	nined			
Aquatic Toxicity:	Not Determ	nined			
Bioaccumulation Poter	tial: Not Determ	nined			
Section 12	Transp	ort Information			
Proper Shipping Name	EXTRACTS, FI	LAVOURING, LIQU	ID		
UN#:	1197				
UN Pkg Group:					
ERG#:	127				
Air/Steamer Transport	Information:				
Air:	3				
Steamer:	3				
Required Labels:	FLAMMABLE L	LIQUID			
Section 13	Ot	her Information			
Hazardous Materials Id	entification Sys	stem			
Health: 1 Flamma	bility: F	Reactivity: 0	Personal Protection: B		
4-Extreme 3-High	2-Moderate	e 1-Slight	0-No Significant Hazard		
Section 14		Regulator	у		
R-Phase:					
S-Phase:					
Section 15		Conclusion	1		
			d accurate and reliable. However, the		
data je providod without c	NOV WORROOTV OV	proceed or implied r	agarding its correctness or accuracy. It		

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.

Section 16

Disclaimer

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 assumed by you and the user.