

MATERIAL SAFETY DATA SHEET

Agent: C & A Service Inc.
Manufacturer: CITRUS AND ALLIED ESSENCES LTD.
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Section 1. Chemical Identification

LINALOOL (BIO-SENSORY TYPE)

Product Number: C:A526353

Section 2. Composition/Information of Ingredients

CAS#: 78-70-6
Fema#: 2635
Molecular_: C₁₀H₁₈O = 154.25
Chemical Name: 1,6-OCTADIENAL-3-OL, 3,7-DIMETHYL
Synonyms: NA

Section 3. First-Aid Measures

Eye Contact Aid: Flush immediately with cold clean water for at least 15 minutes, contact physician immediately.
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 to dilute. Contact a physician or local poison control center immediately.

Section 4. 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 Hazards: Avoid heat, sparks and open flame

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 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 of in accordance with current laws and regulations.

Section 6. Handling and Storage

Storage/Handling: Store in tight full containers in a cool dry place away from light. Before opening and handling this flavor/fragrance, consult your workplace safety officer and MSDS.

Section 7. Exposure Controls/Personal Protection

Eyes: The use of goggles or a face shield is recommended.
Respiratory: Respiratory protection is normally not required in well ventilated areas. However, NOISH 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/Hygenic Practices: Use good personal hygiene practices; Limit exposure to product whenever possible.
Wash any contaminated clothing or shoes before each use.

Section 8. Physical and Chemical Properties

Appearance_and_Odor: A clear liquid with a fresh floral note
Hazardous Ingredients: None Available
Boiling Point (Deg C): 363 F **Melting Point (Deg C):** NA
Vapor Density: 5.3 **Vapor Pressure:** 0.4mmHg@20C
Specific Gravity (@ 20 C): 0.8610 to 0.8650
Specific Gravity (@ 25 C): 0.8580 to 0.8620
Refractive Index (@ 20 C): 1.4590 to 1.4640
Solubility:
Water: Insoluble
Fat: Not Available
Flash Point:
169 F (Tag Closed Cup)
76 C (Tag Closed Cup)

Flammability (solid,gas): NA
Autoflammability: NA
Explosive Properties: NA
Oxidizing Properties: NA

Section 9. Stability and Reactivity

Hazardous_Polymerization: Will not occur
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, acrid fumes
Materials and/or Conditions to avoid: Avoid contact with strong acids, strong bases and materials that react with terpene alcohol
Stability: stable

Section 10. Toxicological Information

Threshold Limit Value (ACGIH TLV): None Established
Threshold Limit Value (OSHA PEL): None Established
Carcinogenicity:
NTP Monograph: None Established
IARC Monograph: None Established
Acute Toxicity Data:
Oral LD50: 2790mg/kg (rat)
Dermal LD50: >5000mg/kg (rabbit)
Inhalation LC50: None Established
Health Hazards (Acute and Chronic):
Ingestion of large quantities: None Established
Inhalation: None Established
Skin Contact: closed patch test (48H, 20% in petrolatum) no irritation
Eye Contact: Liquid May be Irritating
Note: The above effects are based on evaluation of individual components, the relevancy to the mixture as a whole or to humans is unknown. Handling of this flavor/fragrance that results in

inhalation of fumes, may cause severe adverse health effects.

Other Effects:

None Established

Section 11.	Ecological Information
Biodegradability:	Not Determined
Aquatic Toxicity:	Not Determined
Bioaccumulation Potential:	Not Determined

Section 12.	Transport Information
Proper Shipping Name:	NA
UN#:	NA
UN Pkg Group:	NA
ERG#:	NA
Air/Steamer Transport Information:	
Class	
Air	NA
Steamer:	NA
Required Labels:	NA

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

Section 14.	Regulatory
R-Phase:	NA
S-Phase:	NA

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 users responsibility both to determine safe conditions for use of this product, and to assume liability for loss, injury, damage, or expense resulting from the improper use of this product.

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