**** MATERIAL SAFETY DATA SHEET ****

Linalool

Section 1 - Chemical Product and Company Identification

MSDS Name : Linalool

Synonyms Linalool

Company Identification THE AROMAVERSE-FZCO
A6-3648479202, Premises No. A6-003-B ,
IFZA Business Park, DDP. DUBAI,UNITED ARAB EMIRATES.
Email: info@aromaverse.net

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	%	EINECS#	
78-70-6	Linalool	99%Min	-	

Hazard Symbols: None Available
Risk Phrases: None Known.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

POTENTIAL HEALTH EFFECTS

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Flam. Liq. 4 Flammable liquids

Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 2A Serious eye damage/eye irritation

Skin Sens. 1 Skin sensitization

Aquatic Acute 3 Hazardous to the aquatic environment - acute

Label elements

Pictogram: 

Signal Word:

Warning

Hazard Statement:

H227 Combustible liquid.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye protection or face protection.

P261 Avoid breathing mist or vapour or spray.

P280 Wear eye protection.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

P272 Contaminated work clothing should not be allowed out of the workplace.

P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P332 + P313 If skin irritation occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P337 + P313 If eye irritation persists: Get medical attention.

P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water spray for extinction.

Precautionary Statements (Storage):

P403 Store in a well-ventilated place.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified

No data available

Section 4 - First aid Measures

Eyes	Rinse immediately with plenty of water for 10 minutes at least.
Skin	Wash thoroughly with soap and water; flush with plenty of water.
Ingestion	Wash the mouth with water; seek medical advice immediately.
Inhalation	Move from exposure site to fresh air and keep at rest.
Notes to Physician	Treat symptomatically.

Section 5 - Fire Fighting Measures

General Information	Closed containers may build up pressure at elevated temperatures. If possible, containers should be cooled with a water spray.
Extinguishing Media	CO2, foam, dry chemicals.

Section 6 - Accidental Release Measures

General Information	Prevent any contact with hot surfaces. Do not approach facing the wind.
Spills/Leaks	Contain spilled material. Cover with an inert, non-combustible, inorganic absorbent material.

Section 7 - Handling and Storage

Handling	Apply according to good manufacturing and industrial hygiene practices with proper ventilation.
Storage	Store in cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls Ensure good ventilation of the work station.

PERSONAL PROTECTIVE EQUIPMENT

Eyes	Use safety glasses.
Skin	Avoid skin contact. Use chemical resistant gloves as needed.
Respirators	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions

Section 9 - Physical and Chemical Properties

Form: liquid
Odour: flowery
Odour threshold: < 100 ppm
Colour: colourless
pH value: 4.5
(1.45 g/l, 25 °C)
Melting point: < -100 °C (OECD Guideline 102)
glass transition temperature:
-99 °C
Freezing point: No data available.
Boiling point: 196.3 °C
(1,013.25 hPa)
(OECD Guideline 103)
Flash point: 77.2 °C (ISO 2719, closed cup)
Flammability: Combustible liquid. (derived from flash point)
Lower explosion limit: For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit: For liquids not relevant for classification and labelling.
Autoignition: 260 °C (Directive

92/69/EEC, A.15)
Vapour pressure: 0.3 hPa
(20 °C)
dynamic
(measured)
Density: 0.862 g/cm3
(20 °C, 1,013 hPa)
(pyknometer)
Relative density: 0.862
(20 °C)
Vapour density: > 1
(20 °C)
Heavier than air.
(calculated)
Partitioning coefficient noctanol/water (log Pow):
2.7

(25 °C)
(OECD Guideline
107)
Self-ignition
temperature:
Based on its structural properties the
product is not classified as selfigniting.
Thermal decomposition: approx. >= 260 °C (DSC (DIN 51007))
Viscosity, dynamic: 4.46 mPa.s
(25 °C)
Literature data.
Viscosity, kinematic: approx. 5.19 mm2/s
(25 °C)
(calculated (from

dynamic viscosity))

Particle size: The substance / product is marketed or used in a non solid or granular form.

Solubility in water: 1.45 g/l (25 °C, 1,013 hPa)

Solubility (qualitative): soluble solvent(s): organic solvents,

Molar mass: 154.25 g/mol

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal temp and pressure.
Conditions to Avoid	Avoid contact with strong acids, alkali or oxidizing agents.
Incompatibilities with Other Materials	strong acids, alkali or oxidizing agents.
Hazardous Decomposition Products	Carbon Monoxide and carbon Dioxide
Hazardous Polymerization	Not Known.

Section 11 - Toxicological Information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin
contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route
of entry for liquefied gases.
Acute Toxicity/Effects
Acute toxicity
Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single
skin contact.
Oral
Type of value: LD50
Species: rat
Value: 2,790 mg/kg

Literature data.
Inhalation
No data available.
Dermal
Type of value: LD50
Species: rabbit
Value: 5,610 mg/kg
Literature data.
Assessment other acute effects
Assessment of STOT single:
Based on available data, the classification criteria are not met.
Irritation / corrosion
Assessment of irritating effects: Skin contact causes irritation. Eye contact causes irritation.
Skin
Species: rabbit
Result: Irritant.
Method: OECD Guideline 404
Literature data.
Eye
Species: rabbit
Result: Irritating.
Sensitization
Assessment of sensitization: Caused skin sensitization in animal studies.
Mouse Local Lymph Node Assay (LLNA)
Species: mouse
Result: sensitizing
Method: OECD Guideline 429
Aspiration Hazard
No data available.
Chronic Toxicity/Effects
Repeated dose toxicity
Assessment of repeated dose toxicity: Effects on the kidney of male rats were detected after
repeated exposure. These effects are specific for the male rat and are known to be of no relevance
to humans.
Genetic toxicity
Assessment of mutagenicity: Results from a number of mutagenicity studies with microorganisms,
mammalian cell culture and mammals are available. Taking into account all of the information, there
is no indication that the substance is mutagenic.
Carcinogenicity
Assessment of carcinogenicity: The whole of the information assessable provides no indication of a

carcinogenic effect.
Reproductive toxicity
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility
impairing effect.
Teratogenicity
Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at
doses that were not toxic to the parental animals.

Section 12 - Ecological Information

Other .None Available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

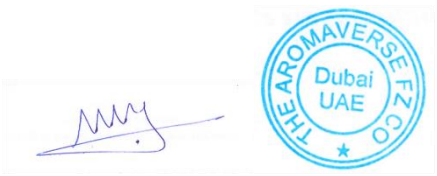
Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not Regulated	Not Regulated	Not Regulated
Hazard Class:			
UN Number:			

Section 15 - Regulatory Information

European/International Regulations:

European Labeling in Accordance with EC Directives



Hazard Symbols:

Risk Phrases: R20/21/22

R36/37/38

Safety Phrases: Not Available.

United Kingdom Occupational Exposure Limits: Not Known.

Canada : Product is on the DSL list.

Exposure Limits

US FEDERAL

TSCA : Product is listed on the TSCA list.

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages. ----------