

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/09/2013 Version: 1.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance
Trade name : Linalool
CAS No : 78-70-6
Product code : L1000
Formula : C10H18O

Synonyms : (+/-)-linalool / 1,6-octadien-3-ol, 3,7-dimethyl- / 2,6-dimethyl-2,7-octadiene-6-ol / 2,6-

dimethylocta-2,7-dien-6-ol / 3,7-dimethyl-1,6-octadien-3-ol / 3,7-dimethyl-3-hydroxy-1,6-octadiene,dl- / 3,7-dimethylocta-1,6-dien-3-ol / allo-ocimenol / beta-linalool / coriandrol / dl-3,7-dimethyl-3-hydroxy-1,6-octadiene / linalool / linalyl alcohol / Substances with a flash-point above 60 °C and not more than 100 °C / Substances with a flash-point above 60 °C and not

more than 100 °C, which do not belong to another class

BIG no : 21720

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Odorant

Solvent

Odorant: component

#### 1.3. Details of the supplier of the safety data sheet

CHEMTEX USA 27-29 Dwight Place Fairfield, 07004 - USA

T 862-702-8900 - F 862-702-8180

contact@chemtexusa.com - www.chemtexusa.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTEL:(800)255-3924

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### **Classification (GHS-US)**

Flam. Liq. 4 H227 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Skin Sens. 1 H317 STOT SE 3 H335 Aquatic Acute 3 H402

Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid H315 - Causes skin irritation

> H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation

H402 - Harmful to aquatic life

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P261 - Avoid breathing dust, fume, gas, mist, spray, vapors

P264 - Wash skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

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P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P302+P352 - If on skin: Wash with plenty of water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 - Call a doctor, a POISON CENTER if you feel unwell

P321 - Specific treatment (see suplemental first aid label on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated clothing and wash it before reuse

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

P370+P378 - In case of fire: Use carbon dioxide (CO2), foam to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep container

P405 - Store locked up

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
Linalool (Main constituent)	(CAS No) 78-70-6	100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

#### **SECTION 4: First aid measures**

First-aid measures after skin contact

#### 4.1. Description of first aid measures

First-aid measures general

: If you feel unwell, seek medical advice. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

: Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label). If skin

irritation or rash occurs:

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting. Call Poison Information Centre

(www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause an allergic skin reaction. May cause respiratory irritation.

Symptoms/injuries after skin contact : Slight irritation. Causes skin irritation.

Symptoms/injuries after eye contact : Irritation of the eye tissue. Causes serious eye irritation.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

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#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media

: Water spray. Alcohol-resistant foam. Polyvalent foam. BC powder. Carbon dioxide. Foam. Dry

powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: DIRECT FIRE HAZARD. Material presenting a fire hazard. INDIRECT FIRE HAZARD. Temperature above flashpoint: higher fire/explosion hazard. Combustible liquid.

Explosion hazard

: DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard. May form flammable/explosive vapor-air mixture.

Reactivity

: Upon combustion: CO and CO2 are formed. Reacts with (strong) oxidizers. Reacts exothermically with (some) acids.

#### 5.3. Advice for firefighters

Precautionary measures fire

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions

: Cool tanks/drums with water spray/remove them into safety. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting

: Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

#### 6.1.1. For non-emergency personnel

Protective equipment

: Gloves. Safety glasses. Protective clothing. See "Material-Handling" to select protective clothing.

**Emergency procedures** 

: Mark the danger area. No naked flames. Wash contaminated clothes. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

**Emergency procedures** 

: Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment

: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply.

Methods for cleaning up

Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite or powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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Precautions for safe handling

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Keep away from naked flames/heat. At temperature > flashpoint: use spark-/explosionproof appliances. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-

ventilated area

Hygiene measures

: Wash ... thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof

place. Keep container tightly closed.

Incompatible products : Strong bases. strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids.

Storage area : Store in a cool area. Store in a dry area. Store in a dark area. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. clean. opaque. correctly labelled. meet the legal

requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: glass. MATERIAL TO AVOID: aluminium.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Linalool (78-70-6)	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Materials for protective clothing : GIVE GOOD RESISTANCE: rubber. plastics.

Hand protection : Gloves. Wear protective gloves.

Eye protection : Face shield. Chemical goggles or safety glasses.

Skin and body protection : Protective clothing. Wear suitable protective clothing.

Respiratory protection : High gas/vapour concentration: gas mask with filter type A. Wear approved mask.

Other information : When using, do not eat, drink or smoke.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.

Color : Colourless to light yellow
Odor : Floral odour Lemon odour

Odor threshold : No data available pH : 4.5 (0.1 %)

pH solution : 0.1 % Melting point :  $< 20 \,^{\circ}$ C

Freezing point : No data available

Boiling point :  $194 \, ^{\circ}\text{C}$ Flash point :  $77 \, ^{\circ}\text{C}$ 

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Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Explosion limits : 0.9 - 5.2 vol % Explosive properties : No data available Oxidizing properties : No data available

Vapor pressure : 0.1 hPa
Relative density : 0.86
Relative vapor density at 20 °C : 5.3

Molecular mass : 154.25 g/mol

Solubility : Poorly soluble in water. Soluble in ethanol. Soluble in ether. Soluble in oil. Soluble in

propyleneglycol.

Water: 0.15 g/100ml

Log Pow : 2.84 - 3.145
Log Kow : No data available

Auto-ignition temperature :  $235 \, ^{\circ}\text{C}$ Decomposition temperature :  $> 200 \, ^{\circ}\text{C}$ 

Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 0.0044 Pa.s (25 °C)

9.2. Other information

VOC content : 100 %

Other properties : Gas/vapour heavier than air at 20°C. Slightly volatile. Substance has acid reaction.

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Upon combustion: CO and CO2 are formed. Reacts with (strong) oxidizers. Reacts exothermically with (some) acids.

### 10.2. Chemical stability

Stable under normal conditions. Combustible liquid. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

#### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg (Rat)
LD50 dermal rat	5610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2790.000 mg/kg body weight
ATE US (dermal)	5610.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

pH: 4.5 (0.1 %)

Serious eye damage/irritation : Causes serious eye irritation.

pH: 4.5 (0.1 %)

Respiratory or skin sensitization : May cause an allergic skin reaction.

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Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause an allergic skin reaction. May cause respiratory irritation.

Symptoms/injuries after skin contact : Slight irritation. Causes skin irritation.

Symptoms/injuries after eye contact : Irritation of the eye tissue. Causes serious eye irritation.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft

Klasse 5.2.5.

Ecology - water : Mild water pollutant (surface water). Ground water pollutant. Harmful to fishes. Harmful to

invertebrates (Daphnia). Harmful to algae. pH shift. Inhibition of activated sludge. Harmful to

aquatic life.

Linalool (78-70-6)		
LC50 fish 1	22 - 46 mg/l (96 h; Leuciscus idus; Static system)	
EC50 Daphnia 1	59 mg/l (48 h; Daphnia magna)	
EC50 other aquatic organisms 1	>= 100 mg/l (3 h; Activated sludge)	
LC50 fish 2	27.8 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	

### 12.2. Persistence and degradability

Linalool (78-70-6)	
Persistence and degradability	Readily biodegradable in water. Not established.
Biochemical oxygen demand (BOD)	1.531 g O₂/g substance
Chemical oxygen demand (COD)	2.808 g O₂/g substance

### 12.3. Bioaccumulative potential

Linalool (78-70-6)	
Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable. Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

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## **SECTION 13: Disposal considerations**

#### Waste treatment methods

Waste disposal recommendations

: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. Use appropriate containment to avoid environmental contamination. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Additional information Hazardous waste according to Directive 2008/98/EC. Handle empty containers with care

because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment

## **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1993 Flammable liquids, n.o.s., 3, III

UN-No.(DOT) : UN1993

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242

**DOT Symbols** DOT Special Provisions (49 CFR 172.102) : G - Identifies PSN requiring a technical name

: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

**DOT Vessel Stowage Location** : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

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#### **Additional information**

Other information : No supplementary information available.

#### **ADR**

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

## Linalool (78-70-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

## **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Eye Irrit. 2 H319

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36 R43

Full text of R-phrases: see section 16

#### **National regulations**

No additional information available

#### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Other information : None.

#### Full text of H-phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 4	Flammable liquids Category 4	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H227	Combustible liquid	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H402	Harmful to aquatic life	

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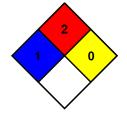
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NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

Disclaimer:

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