



# SAFETY DATA SHEETS

## 1. Identification

### 1.1 GHS Product identifier

Product name linalool

### 1.2 Other means of identification

Product number -

Other names LINALLOL

### 1.3 Recommended use of the chemical and restrictions on use

Identified uses For industry use only. Fragrances

Uses advised against no data available

### 1.4 Supplier's details

Company Peak Supply Co  
Address 5664 Cahuenga blvd. North Hollywood CA 91601  
Telephone (818) 308-6227

### 1.5 Emergency phone number

Emergency phone number

Service hours Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

Skin irritation, Category 2

Skin sensitization, Category 1B

Eye irritation, Category 2

### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



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Signal word	Warning
Hazard statement(s)	H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation
Precautionary statement(s)	
Prevention	P264 Wash ... thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace.
Response	P302+P352 IF ON SKIN: Wash with plenty of water/... P321 Specific treatment (see ... on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
Storage	none
Disposal	P501 Dispose of contents/container to ...

### 2.3 Other hazards which do not result in classification

none

## 3. Composition/information on ingredients

### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
linalool	linalool	78-70-6	none	100%

## 4. First-aid measures

### 4.1 Description of necessary first-aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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#### **If inhaled**

Fresh air, rest. Refer for medical attention.

#### **In case of skin contact**

Rinse and then wash skin with water and soap. Refer for medical attention .

#### **In case of eye contact**

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### **If swallowed**

Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give one or two glasses of water to drink. Refer for medical attention .

### **4.2 Most important symptoms/effects, acute and delayed**

no data available

### **4.3 Indication of immediate medical attention and special treatment needed, if necessary**

/SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Poisons A and B/

## **5. Fire-fighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Specific hazards arising from the chemical**

no data available

### **5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## **6. Accidental release measures**

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

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Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 6.2 Environmental precautions

Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent. Then store and dispose of according to local regulations.

## 6.3 Methods and materials for containment and cleaning up

ACCIDENTAL RELEASE MEASURES: Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.; Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.; Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Separated from strong oxidants. Well closed. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2-8°C. Store under inert gas. Storage class (TRGS 510): Combustible liquids.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure limit values

no data available

#### Biological limit values

no data available

### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

### 9. Physical and chemical properties

Physical state	liquid
Colour	Colorless liquid
Odour	Odor similar to that of bergamot oil and French lavender
Melting point/ freezing point	Freezing point: below -74°C /OECD Guideline 102 (Melting point / Melting Range)/
Boiling point or initial boiling point and boiling range	194-197°C/720mmHg(lit.)
Flammability	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.
Lower and upper explosion limit / flammability limit	Lower flammable limit: 0.9% by volume; Upper flammable limit: 5.2% by volume
Flash point	78°C
Auto-ignition temperature	455 deg F (235°C)
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	4.465 mPa s at 25°C (dynamic)
Solubility	In water: 1.45 g/L (25 °C)
Partition coefficient n-octanol/water (log value)	log Kow = 2.97
Vapour pressure	0.17 mm Hg ( 25 °C)
Density and/or relative density	0.87g/mL at 25°C(lit.)
Relative vapour density	no data available



Particle characteristics no data available

## 10. Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Combustible liquid

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Incompatible materials: Strong oxidizing agents

### 10.6 Hazardous decomposition products

When heated to decomposition it emits acrid smoke and irritating fumes.

## 11. Toxicological information

### Acute toxicity

- Oral: LD50 Rat oral 2790 mg/kg (2440-3180, 95% CL) /From table/
- Inhalation: no data available
- Dermal: no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available



#### Reproductive toxicity

no data available

#### STOT-single exposure

no data available

#### STOT-repeated exposure

no data available

#### Aspiration hazard

no data available

## 12. Ecological information

### 12.1 Toxicity

- Toxicity to fish: LC50; Species: *Oncorhynchus mykiss* (Rainbow trout) juvenile, average length 63 mm (57-72 mm), weight 2.12 g (1.51-2.75 g); Conditions: static, 180 mg CaCO<sub>3</sub>/L hardness, 14 ± 0.5°C; Concentration: 27.8 mg/L for 96 hr (95% confidence limit: 22.9-33.7 mg/L) /dl-Linalool purity 97.8%
- Toxicity to daphnia and other aquatic invertebrates: EC50; Species: *Daphnia magna* (water flea); Conditions: static, 21 ± 1°C; Concentration: 59 (95% confidence limit: 53-65) mg/L for 48 hr; Effect: immobilization /dl-Linalool purity 97.8%
- Toxicity to algae: EC50; Species: *Scenedesmus subspicatus* (green alga); Concentration: 88.3 mg/L for 96 hr; Effect: biomass /Conditions of bioassay not specified in source examined/ /Emulsified using Tween80 concentration one-tenth of the linalool
- Toxicity to microorganisms: no data available

### 12.2 Persistence and degradability

AEROBIC: Linalool, present at 100 mg/L, reached 90% of its theoretical BOD in 4 weeks using an activated sludge inoculum at 30 mg/L in the Japanese MITI test which classified the compound as readily biodegradable(1). Using OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) and a domestic, non-adapted sewage inoculum, linalool (2 mg/L) had a 5-day and a 28-day ThOD of 40.9 and 64.2% which classified the compound as readily biodegradable(2). Other aerobic screening tests have also found linalool to be readily biodegradable(3). Using various aerobic 28-day tests, 90-100% biodegradation of linalool was observed as evidenced by full primary degradation or very high mineralization as measured by BOD and TOC(3). Linalool, present at 400 mg DOC/L, biodegraded 26 and 100% in 3 hours and 13 days, respectively, using an activated sludge inoculum in the Zahn-Wellens test(3).

### 12.3 Bioaccumulative potential

An estimated BCF of 42 was calculated in fish for linalool(SRC), using a log K<sub>ow</sub> of 2.97(1) and a regression-derived equation(2). According to a classification scheme(2), this BCF suggests the potential for bioconcentration in aquatic organisms is moderate(SRC), provided the compound is not metabolized by the organism(SRC).



## 12.4 Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc of linalool can be estimated to be 75(SRC). According to a classification scheme(2), this estimated Koc value suggests that linalool is expected to have high mobility in soil.

## 12.5 Other adverse effects

no data available

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## 13. Disposal considerations

### 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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## 14. Transport information

### 14.1 UN Number

ADR/RID: no data available

IMDG: no data available

IATA: no data available

### 14.2 UN Proper Shipping Name

ADR/RID: no data available

IMDG: no data available

IATA: no data available

### 14.3 Transport hazard class(es)

ADR/RID: no data available

IMDG: no data available

IATA: no data available

### 14.4 Packing group, if applicable

ADR/RID: no data available

IMDG: no data available

IATA: no data available

### 14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

### 14.6 Special precautions for user





no data available

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
linalool	linalool	78-70-6	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

### 16. Other information

#### Information on revision

Creation Date Aug 17, 2017

Revision Date Aug 17, 2017

#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

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