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## MATERIAL SAFETY DATA SHEET (MSDS)

Creation Date: 21-02-2025

Revision Date: 21-02-2030

#### **SECTION 1. Product identifiers**

Product name: Linalool Product Code: L 1458 CAS No : 78-70-6

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email info@ottokemi.com

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm).

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

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eve irritation (Category 2), H319 Skin sensitization (Category 1), H317 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Warning Hazard statement(s) H315 Causes skin irritation. H317 May cause an allergic skin reaction. Causes serious eye irritation. H319 Precautionary statement(s) P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the P272 workplace. P280 Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of water. P302 + P352 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Warning Hazard statement(s) May cause an allergic skin reaction. H317 Precautionary statement(s) P261 Avoid breathing mist or vapors. P272 Contaminated work clothing should not be allowed out of the workplace. P302 + P352 IF ON SKIN: Wash with plenty of water.

Supplemental Hazard

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none

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### Statements

2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

| 3.1 Substances   |  |
|------------------|--|
| Synonyms         | : (±)-3,7-Dimethyl-3-hydroxy-1,6-octadiene |
|                  | (±)-3,7-Dimethyl-1,6-octadien-3-ol         |
| Formula          | : C10H18O                                  |
| Molecular weight | : 154,25 g/mol                             |
| CAS-No.          | : 78-70-6                                  |
| EC-No.           | : 201-134-4                                |
|                  |  |

| Component        | Classification                             | Concentration |
|------------------|--|---------------|
| Linalool         |  |               |
| CAS-No. 78-70-6  | Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; | <= 100 %      |
| EC-No. 201-134-4 | H315, H319, H317                           |               |

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Consult a physician.

In case of eye contact After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact

lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a

physician.

4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms and effects are described in the labelling (see section
- 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media
Suitable extinguishing media
Carbon dioxide (CO2) Foam Dry powder
Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.
5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.
5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® H<sup>+</sup>, Merck Art. No. 101595). Dispose of properly. Clean up affected area. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Storage class Storage class (TRGS 510): 10: Combustible liquids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Chloroprene Minimum layer thickness: 0,65 mm

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Break through time: 240 min Material tested:KCL 720 Camapren® Body Protection protective clothing Respiratory protection required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state clear. liquid b) Color colorless c) Odor pleasantfloral d) Melting Melting point: < -100 °C point/freezing point Freezing point: > -74 °C at ca.993 hPa - OECD Test Guideline 102 e) Initial boiling point 194 - 197 °C at 960 hPa - lit. and boiling range f) Flammability (solid, No data available gas) g) Úpper/lower Upper explosion limit: 5,2 %(V) flammability or explosive limits Lower explosion limit: 0,9 %(V) ca.77,2 °C - Pensky-Martens closed cup - ISO 2719 h) Flash point 260 °C i) Autoignition temperature at 994 hPa ca. > 200 °C j) Decomposition temperature Distillable in an undecomposed state at normal pressure. 4,5 at 1,45 g/l at 25 °C k) pH I) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: 4,465 mPa.s at 25,00 °C - OECD Test 1140,45 mPa.s at 25 °C Guideline m) Water solubility slightly soluble n) Partition coefficient: log Pow: 2,84 at 25 °C - OECD Test Guideline 107 n-octanol/water Bioaccumulation is not expected. o) Vapor pressure 0,27 hPa at 25 °C - OECD Test Guideline 104 0,87 g/cm3 at 25 °C - lit. p) Density Relative density No data available q) Relative vapor No data available density r) Particle No data available characteristics s) Explosive properties No data available t) Oxidizing properties none 9.2 Other safety information Surface tension 8,3 mN/m at 20 °C **SECTION 10: Stability and reactivity** 10.1 Reactivity Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical. 10.2 Chemical stability

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The product is chemically stable under standard ambient conditions (room temperature) . 10.3 Possibility of hazardous reactions Exothermic reaction with: acids Violent reactions possible with: Strong oxidizing agents 10.4 Conditions to avoid Strong heating. 10.5 Incompatible materials Strong oxidizing agents 10.6 Hazardous decomposition products In the event of fire: see section 5

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None, by NTP, None, by OSHA, None, by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

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

12.1 Toxicity Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 27,8 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 59 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 156,7 ma/l - 96 h (DIN 38412) static test EC10 - Desmodesmus subspicatus (green algae) - 54,3 mg/l - 96 h (DIN 38412) Toxicity to bacteria static test EC50 - activated sludge - > 100 mg/l - 30 h (OECD Test Guideline 209) 12.2 Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 64,2 % - Readily biodegradable. (OECD Test Guideline 301D) 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

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Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects Discharge into the environment must be avoided.

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods No data available

### **SECTION 14: Transport information**

| 14.1 UN number      |  |                            |          |
|---------------------|--|----------------------------|----------|
| ADR/RID: -          |  | IMDG: -                    | IATA: -  |
| 14.2 UN proper shi  | ipping name                                |                            |          |
| ADR/RID             | : Not dangerous goods                      |                            |          |
| IMDG                | : Not dangerous goods                      |                            |          |
| IATA                | : Not dangerous goods                      |                            |          |
| 14.3 Transport haz  | ard class(es)                              |                            |          |
| ADR/RID: -          |  | IMDG: -                    | IATA: -  |
| 14.4 Packaging gro  | pup  |                            | 0        |
| ADR/RID: -          |  | IMDG: -                    | IATA: -  |
| 14.5 Environmenta   | I hazards                                  |                            | 1        |
| ADR/RID: no         |  | IMDG Marine pollutant: no  | IATA: no |
| 14.6 Special preca  | utions for user                            |                            |          |
| No data available   |  |                            |          |
|                     |  |                            |          |
| SECTION 15: Reg     | ulatory information                        |                            |          |
| 15.1 Safety, health | and environmental regulations/legislation  | n specific for the         |          |
| substance or mixtu  | ire  |                            |          |
| This material safet | y data sheet complies with the requirement | nts of Regulation (EC) No. |          |
| 1907/2006.          |  |                            |          |
| Other regulations   |  |                            |          |
| Take note of Dir 94 | 1/33/EC on the protection of young people  | e at work.                 |          |
| 15.2 Chemical Saf   | ety Assessment                             |                            |          |

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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