

Safety data sheet

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BASF Company Ltd. Safety data sheet

Date / Revised: 23.12.2022

Product: **Linalool**

Version: 1.0

This is a translation of the country-specific safety data sheet into a language other than that required by law. It does not replace the safety data sheet prepared in accordance with Article 110 of the Industrial Safety and Health Law.

(30034999/SDS_GEN_KR/EN)

Date of print 21.10.2025

1. Substance/preparation and company identification

Linalool

Use: Chemical, Chemical for detergents, Cosmetic and oral care chemical, flavoring substance

Manufacturer/supplier:

BASF Company Ltd.

14-16F. KCCI Bldg., 39, Sejong-daero,

Jung-gu, Seoul

REPUBLIC OF KOREA

04513

Telephone: +82 2 3707-3100 / -7500 (Prod.Inq.)

Telefax number: +82 2 3707-3122

E-mail address: Chemregulation-KR@basf.com

Emergency information:

Local emergency number:

Telephone: 080 770 3100 (Accident Reception)

International emergency number:

Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 2

Skin sensitization: Cat. 1

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Label elements and precautionary statement:

Pictogram:



Signal Word: Warning

Hazard Statement:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P261	Avoid breathing mist or vapour or spray.
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.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

3,7-dimethyloctadien-1,6-ol-3

CAS Number: 78-70-6

ECL-Number: KE-11592

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Hazardous ingredients

3,7-dimethyloctadien-1,6-ol-3

(Synonym name: 3,7-Dimethyl-1,6-octadien-3-ol; .beta.-Linalool; Linalool)

Content (W/W): $\geq 75\%$ - $\leq 100\%$

CAS Number: 78-70-6

KE number: KE-11592

D,L-alpha-tocopherol

(Synonym name: 2H-1-Benzopyran-6-ol, 3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-)

Content (W/W): $> 0\%$ - $< 0.1\%$

CAS Number: 10191-41-0

KE number: 98-3-1010

NIER number: 98-3-1010

Composition information in accordance with Article 104 of the Industrial Safety and Health Law. However, it will be stated as blank in section 3 if there is no substance to be disclosed.

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms/effects, acute and delayed:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Indication of immediate medical attention and notes for physician:

Hazards: No data available.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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5. Fire-Fighting Measures

Suitable (and inappropriate) extinguishing media:

Suitable extinguishing media:

water spray, carbon dioxide, dry powder, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon oxides, harmful vapours

The substances/groups of substances mentioned can be released in case of fire. Combustible Liquid

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Information regarding personal protective measures, see section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For large amounts: Dike spillage. Cover with blanket of foam (alcohol-resistant foam). Pump off product.

For residues: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling:

Handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed. This product may cause irritations; wash your hands after every contact.

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Protection against fire and explosion:

The product is combustible. Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharges. If exposed to fire, keep containers cool by spraying with water. Vapours may form explosive mixture with air.

Conditions for safe storage, including any incompatibilities:

Storage

Odour-sensitive: Segregate from products releasing odours.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect containers from physical damage.

8. Exposure controls and personal protection

Exposure limits, biological limit values etc.:

Components with occupational exposure limits:

No substance specific occupational exposure limits known.

Biological Limit:

No data available.

Engineering Controls:

Use adequate exhaust ventilation to keep airborne concentration below exposure limits.

Personal protective equipment:

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

fluoroelastomer (FKM) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

chloroprene rubber (CR) - 0.5 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

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Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with the skin, eyes and clothing. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless	
Odour:	flowery	
Odour threshold:	< 100 ppm	
pH value:	4.5 (1.45 g/l, 25 °C)	
Melting point:	< -100 °C	(OECD Guideline 102)
glass transition temperature:	-99 °C	
Boiling point:	196.3 °C (1,013.25 hPa)	(OECD Guideline 103)
Flash point:	77.2 °C	(ISO 2719, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	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.	
Ignition temperature:	260 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	approx. \geq 260 °C	(DSC (DIN 51007))

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Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Self heating ability:	not applicable, the product is a liquid	
Explosion hazard:	not explosive	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	0.3 hPa (20 °C) dynamic	(measured)
Density:	0.862 g/cm ³ (20 °C, 1,013 hPa)	(pycnometer)
Relative density:	0.862 (20 °C)	
Relative vapour density (air):	> 1 (20 °C) Heavier than air.	(calculated)
Solubility in water:	1.45 g/l (25 °C, 1,013 hPa)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	2.7 (25 °C)	(OECD Guideline 107)
Adsorption/water - soil:	KOC: 56.32; log KOC: 1.75	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Viscosity, dynamic:	4.46 mPa.s (25 °C) Literature data.	
Viscosity, kinematic:	approx. 5.19 mm ² /s (25 °C)	(calculated (from dynamic viscosity))
Molar mass:	154.25 g/mol	

10. Stability and Reactivity

Chemical stability: please refer to section 7

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Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. See SDS section 7 - Handling and storage.

Substances to avoid:

acids

Corrosion to metals: Corrosive effects to metal are not anticipated.

Hazardous reactions:

Evolution of heat under influence of acids.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on the likely routes of exposure:

Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Acute toxicity

Acute toxicity (including STOT (single exposure)):

LD50 rat (oral): 2,790 mg/kg

Literature data.

Acute toxicity (including STOT (single exposure)):

(by inhalation): No data available.

Acute toxicity (including STOT (single exposure)):

LD50 rabbit (dermal): 5,610 mg/kg

Literature data.

Irritation

Assessment of irritating effects:

Skin contact causes irritation. Eye contact causes irritation.

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Literature data.

Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Caused skin sensitization in animal studies.

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Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

Repeated dose toxicity (including STOT repeated exposure)

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.

Aspiration hazard:

No data available.

Germ cell mutagenicity

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.

Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ systemic toxicity (single exposure):

Assessment of STOT single:

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

Specific target organ systemic toxicity (repeated exposure):

please refer to Repeated dose toxicity

Numerical measures of toxicity (such as acute toxicity estimates)

12. Ecological Information

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Ecotoxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 27.8 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:

EC50 (48 h) 59 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 156.6 mg/l (growth rate), *Desmodium subspicatus* (DIN 38412 Part 9, static)

Microorganisms/Effect on activated sludge:

EC10 (3 h) > 100 mg/l, (OECD Guideline 209, static)

Chronic toxicity to fish:

Study does not need to be conducted.

Chronic toxicity to aquatic invertebrates:

Study does not need to be conducted.

Assessment of terrestrial toxicity:

Study scientifically not justified.

Mobility

Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Elimination information:

60 - 70 % BOD of the ThOD (28 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Assessment of stability in water:

Study does not need to be conducted.

Bioaccumulation potential

Assessment bioaccumulation potential:

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Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:
No data available.

13. Disposal Considerations

Disposal method:
Observe national and local legal requirements.

Disposal consideration:
All waste produced at Site must be treated by authorized waste treatment company.
Should be disposed in compliance with national and local regulations

14. Transport Information

Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Hazard class:	Not applicable
Hazard label:	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Hazard class:	Not applicable
Hazard label:	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

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	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Hazard class:	Not applicable
Hazard label:	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Further information:

No data available.

15. Regulatory Information

National legislation/Regulations

Industrial Safety and Health Law (South Korea):

The product is classified as hazardous by ISHL in Korea.

Hazardous Factors to be taken working environment measurement: no

Controlled Hazardous substances: no

Hazardous Factors to be taken special medical check: no

Special Controlled Hazardous substance: no

Control parameters such as occupational exposure limit: no

Chemicals Control Act (South Korea):**Toxic Substances:**

This product does not contain toxic substances exceeding the concentration limit

Substances subject to authorization:

This product does not contain substances subject to authorization exceeding the concentration limit

Restricted substances:

This product does not contain restricted substances exceeding the concentration limit

Prohibited substances:

This product does not contain prohibited substances exceeding the concentration limit

Substances requiring preparation for accidents:

This product does not contain substances requiring preparation for accidents exceeding the concentration limit

Dangerous Goods Control Law (Korea):

4th group (Petroleum Group 3), Water soluble liquid, Hazard Category III

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Waste management law (Korea):

All national and local regulations of this product should be observed and dispose in accordance with relevant regulations

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.