

Safety data sheet

Page: 1/13

BASF Company Ltd. Safety data sheet

Date / Revised: 26.12.2022

Product: **Linalyl Acetate**

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.

(30034993/SDS_GEN_KR/EN)

Date of print 21.10.2025

1. Substance/preparation and company identification

Linalyl Acetate

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. |
|------|---|

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-dimethyl-1,6-octadien-3-yl-acetate

CAS Number: 115-95-7

ECL-Number: KE-11622

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Hazardous ingredients

3,7-dimethyl-1,6-octadien-3-yl-acetate

(Synonym name: 3,7-Dimethyl-1,6-octadien-3-yl acetate; Linalyl acetate)

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

CAS Number: 115-95-7

KE number: KE-11622

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., (Further) symptoms and / or effects are not known so far

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.

5. Fire-Fighting Measures

Suitable (and inappropriate) extinguishing media:

Suitable extinguishing media:

dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water

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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 self-contained breathing apparatus and chemical-protective clothing.

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:

Ensure adequate ventilation. Use personal protective clothing. Information regarding personal protective measures, see section 8. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing. Avoid all sources of ignition: heat, sparks, open flame.

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.

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.

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Conditions for safe storage, including any incompatibilities:

Storage

Odour-sensitive: Segregate from products releasing odours.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Protect against heat. Protect contents from the effects of light.

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 chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. 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.

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. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. No eating, drinking, smoking or

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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:	sweetish	
Odour threshold:	< 100 ppm	
pH value:	5 (approx. 23 °C)	
Melting point:	-100 °C	(OECD Guideline 102)
glass transition temperature:	-112 °C	(OECD Guideline 102)
Boiling point:	220 °C (1,013.25 hPa) Literature data.	
Flash point:	85 °C Literature data.	(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:	0.9 %(V) (117.5 °C)	
Upper explosion limit:	4 %(V) (117.5 °C)	
Ignition temperature:	270 °C	(Directive 84/449/EEC, A.15)
Thermal decomposition:	220 °C	(DSC (DIN 51007))
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:	Based on the chemical structure there is no indication of explosive properties.	(other)
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	(other)

BASF Company Ltd. Safety data sheet

Date / Revised: 26.12.2022

Version: 1.0

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(30034993/SDS_GEN_KR/EN)

Date of print 21.10.2025

Vapour pressure:	1 mbar (20 °C) 2 mbar (50 °C)	
Density:	0.9018 g/cm ³ (20 °C) Literature data.	
Relative density:	0.9018 (20 °C) Literature data.	
Relative vapour density (air):	> 1 (20 °C) Heavier than air.	(calculated)
Solubility in water:	slow decomposition 40 mg/l (20 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	3.9 (25 °C)	(OECD Guideline 107)
Adsorption/water - soil:	KOC: 517.9; log KOC: 2.7	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Viscosity, dynamic:	2.50 mPa.s (20 °C) The value was determined by calculation from the detected kinematic viscosity.	(OECD 114)
Viscosity, kinematic:	2.77 mm ² /s (20 °C)	(OECD 114)
Molar mass:	196.29 g/mol	

10. Stability and Reactivity

Chemical stability: please refer to section 7

Conditions to avoid:
No data available.

Substances to avoid:
acids

BASF Company Ltd. Safety data sheet

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Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

No hazardous decomposition products known.

11. Toxicological Information

Information on the likely routes of exposure:

Virtually nontoxic after a 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): > 9,000 mg/kg (BASF-Test)

No mortality was observed.

Acute toxicity (including STOT (single exposure)):

LD50 rabbit (dermal): > 5,000 mg/kg

Irritation

Assessment of irritating effects:

Skin contact causes irritation. Eye contact causes irritation.

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

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

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Respiratory/Skin sensitization

Assessment of sensitization:

Caused skin sensitization in animal studies.

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. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

BASF Company Ltd. Safety data sheet

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(30034993/SDS_GEN_KR/EN)

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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. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:

No reliable data was available concerning carcinogenic activity. Study does not need to be conducted.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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**Ecotoxicity**

Assessment of aquatic toxicity:

BASF Company Ltd. Safety data sheet

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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) 11 mg/l, *Cyprinus carpio* (OECD Guideline 203, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. The product may hydrolyse. The test result maybe partially due to degradation products.

Aquatic invertebrates:

EC50 (48 h) 15 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The details of the toxic effect relate to the nominal concentration. The product may hydrolyse. The test result maybe partially due to degradation products.

Aquatic plants:

EC50 (72 h) 62 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

The details of the toxic effect relate to the nominal concentration. The product may hydrolyse. The test result maybe partially due to degradation products.

Microorganisms/Effect on activated sludge:

EC20 (30 min) > 1,000 mg/l, (DIN EN ISO 8192, aerobic)

Chronic toxicity to fish:

Study scientifically not justified.

Chronic toxicity to aquatic invertebrates:

Study scientifically not justified.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

Study scientifically not justified.

Mobility**Assessment transport between environmental compartments:**

The substance will rapidly 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:

70 - 80 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Assessment of stability in water:

In contact with water the substance will hydrolyse rapidly.

Information on Stability in Water (Hydrolysis):

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 $t_{1/2} < 1$ d, (Directive 92/69/EEC, C.7, pH 7)**Bioaccumulation potential**

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Bioaccumulation potential:

No data available.

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:**

UN number or ID number	Not classified as a dangerous good under transport regulations
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

UN number or ID number:	Not classified as a dangerous good under transport regulations
UN proper shipping name:	Not applicable
Hazard class:	Not applicable
Hazard label:	Not applicable

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(30034993/SDS_GEN_KR/EN)

Date of print 21.10.2025

Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	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

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(30034993/SDS_GEN_KR/EN)

Date of print 21.10.2025

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

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.

1st Version / Date

26.12.2022

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.