

# Safety data sheet

Page: 1/13

BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

## 1. Identification

### Product identifier

## Linalyl Acetate

Chemical name: Linalyl acetate

CAS Number: 115-95-7

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

Relevant identified uses: Chemical, Chemical for detergents, Cosmetic and oral care chemical, flavoring substance

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

#### Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Nutrition and Health

Telephone: +49 621 60-48434

E-mail address: EN-global-safety-data@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

---

## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

Flam. Liq. 4  
Skin Corr./Irrit. 2  
Eye Dam./Irrit. 2B  
Skin Sens. 1B  
Aquatic Acute 3

For the classifications not written out in full in this section the full text can be found in section 16.

## Label elements

### Globally Harmonized System (GHS)

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H227	Combustible liquid.
H320	Causes eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P261	Avoid breathing mist or vapour or spray.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
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.
P370 + P378	In case of fire: Use extinguishing powder, foam or CO2 for extinction.

Precautionary Statements (Storage):

P403	Store in a well-ventilated place.
------	-----------------------------------

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
------	---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

**Other hazards**According to UN GHS criteria

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****Substances**Chemical nature

Linalyl acetate

CAS Number: 115-95-7  
EC-Number: 204-116-4

Hazardous ingredients (GHS)

According to UN GHS criteria

Linalyl acetate

Content (W/W): $\geq 75\%$ - $\leq 100\%$ CAS Number: 115-95-7 EC-Number: 204-116-4	Flam. Liq. 4 Skin Corr./Irrit. 2 Eye Dam./Irrit. 2B Aquatic Acute 3 Skin Sens. 1B H227, H320, H315, H317, H402
---	---

Linalool

Content (W/W): $> 0\%$ - $< 0,1\%$ CAS Number: 78-70-6 EC-Number: 201-134-4	Flam. Liq. 4 Acute Tox. 5 (oral) Skin Corr./Irrit. 2 Eye Dam./Irrit. 2A Skin Sens. 1B Aquatic Acute 3 H227, H319, H315, H303, H317, H402
---	--

geranylacetate

Content (W/W): $> 0\%$ - $< 0,1\%$ CAS Number: 105-87-3	Skin Corr./Irrit. 2 Skin Sens. 1 Aquatic Acute 2 Aquatic Chronic 3 H315, H317, H412, H401
--	---

For the classifications not written out in full in this section the full text can be found in section 16.

**Mixtures**

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

Not applicable

---

## 4. First-Aid Measures

### Description of first aid measures

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 and effects, both 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 any immediate medical attention and special treatment needed

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

---

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water

### Special hazards arising from the substance or mixture

carbon oxides, harmful vapours

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

### Advice for fire-fighters

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, protective equipment and emergency procedures**

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 and material for containment and cleaning 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**

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.

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

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.

### **Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

---

## 8. Exposure Controls/Personal Protection

### **Control parameters**

Components with occupational exposure limits

115-95-7: Linalyl acetate

### **Exposure controls**

Personal protective equipment

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

**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 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

**Information on basic 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	(closed cup)
	Literature data.	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	Combustible Liquid	(derived from flash point)
Lower explosion limit:	0,9 %(V)	
	(117,5 °C)	
Upper explosion limit:	4 %(V)	
	(117,5 °C)	

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

(Directive 84/449/EEC, A.15)

Ignition temperature:	270 °C	
Vapour pressure:	1 mbar (20 °C) 2 mbar (50 °C)	
Density:	0,9018 g/cm <sup>3</sup> (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 Kow):	3,9 (25 °C)	(OECD Guideline 107)
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Thermal decomposition:	220 °C (DSC (DIN 51007))	
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 <sup>2</sup> /s (20 °C)	(OECD 114)
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)

**Other information**

Self heating ability:	not applicable, the product is a liquid	
pK <sub>A</sub> :	The substance does not dissociate.	
Adsorption/water - soil:	KOC: 517,9; log KOC: 2,7	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.	
Molar mass:	196,29 g/mol	

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

---

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Formation of Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### Conditions to avoid

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

### Incompatible materials

Substances to avoid:

acids

### Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products known.

---

## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 9.000 mg/kg (BASF-Test)

No mortality was observed.

LD50 rabbit (dermal): > 5.000 mg/kg

#### Irritation

Assessment of irritating effects:

Skin contact causes irritation. Eye contact causes irritation.

Experimental/calculated data:

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



---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

---

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.

Experimental/calculated data:

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

#### 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 toxicity (single exposure)

Assessment of STOT single:

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

#### Repeated dose toxicity and Specific target organ toxicity (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.

#### Aspiration hazard

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

---

No data available.

---

## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life. 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), *Desmodium 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.

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

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):

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

### Bioaccumulative potential

Safety data sheet according to UN GHS 4th rev.  
Date / Revised: 15.08.2022  
Product: **Linalyl Acetate**

Version: 3.0

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

Assessment bioaccumulation potential:

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

### **Mobility in soil**

Assessment transport between environmental compartments:

Volatility: The substance will rapidly evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

### **Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

### **Other adverse effects**

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

---

## **13. Disposal Considerations**

### **Waste treatment methods**

Observe national and local legal requirements.

---

## **14. Transport Information**

### **Land transport**

ADR

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

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

---

Special precautions for user      None known

**Inland waterway transport**

ADN

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

**Transport in inland waterway vessel**

Not evaluated

**Sea transport**

IMDG

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

**Air transport**

IATA/ICAO

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

**Maritime transport in bulk according to IMO instruments**Maritime transport in bulk is not intended.

---

---

Safety data sheet according to UN GHS 4th rev.

Date / Revised: 15.08.2022

Version: 3.0

Product: **Linalyl Acetate**

(ID no. 30034993/SDS\_GEN\_00/EN)

Date of print 16.10.2025

---

## 15. Regulatory Information

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

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.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
Aquatic Acute	Hazardous to the aquatic environment - acute
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H227	Combustible liquid.
H320	Causes eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H402	Harmful to aquatic life.
H319	Causes serious eye irritation.
H303	May be harmful if swallowed.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.

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.

---

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