

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Linalool Couer - SYMRISE

Version 6

Revision Date 12.02.2019

Print Date 05.04.2019

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Commercial Product Name : Linalool Couer - SYMRISE
Material number : 762253
REACH Registration Number : 01-2119474016-42-0023
CAS-No. : 78-70-6
EC-No. : 201-134-4

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

Use of the Substance/Mixture : **Fragrance**

1.3 Details of the supplier of the safety data sheet

Company : Symrise AG
Muehlenfeldstrasse 1
D-37603 Holzminden
Telephone : +495531900
Telefax : +495531901649
E-mail address : sds@symrise.com

For further information, please contact:
Symrise AG - Tel.: +49 / (0)5531 / 90-0

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 101844: +49(6132)9829021

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315
Eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : **Warning**

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Hazard statements	: H315 H317 H319	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statements	: Prevention: P264 P280 Response: P302 + P352 P305 + P351 + P338 P333 + P313 P337 + P313	Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Contains : LINALOOL.

2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization	: Linalool
Molecular weight	: 154,25 g/mol
Total formula	: C10-H18-O
CAS-No.	: 78-70-6
EINECS-No. / ELINCS No.	: 201-134-4
REACH Registration Number	: 01-2119474016-42-0023

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Linalool	78-70-6 201-134-4	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	>= 50 - <= 100
3,4-Dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-ol	10191-41-0 233-466-0	Skin Sens.: 1B; H317	>= 0,1 - < 1

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

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air.
- Skin contact : Take off all contaminated clothing immediately.
If skin irritation persists, call a physician.
Wash off immediately with plenty of water for at least 15 minutes.
- Eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Remove contact lenses.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.
Prevent vomiting if possible.
If a person vomits when lying on his back, place him in the recovery position.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available

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 : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not contaminate water.
Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Dam up.
Wipe up with absorbent material (e.g. cloth, fleece).

Additional advice : Local authorities should be advised if significant spillages cannot be contained.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

Advice on protection against fire and explosion : When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Fragrance

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

none

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8.2 Exposure controls

Engineering measures

none

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Protective measures : Avoid contact with skin.
When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

- Form : clear liquid
- Colour : colorless
- Odour : characteristic
- Odour Threshold : No data available

Safety data

- Flash point : 76 °C
- Water solubility : ca. 1,56 g/l
Method: OECD Test Guideline 105
- Relative density : 0,8587 - 0,8687 at
20 °C relation to density of water at 4°C
- Bulk density : Not applicable
- Relative vapour density : not determined
- Vapour pressure : 0,27 hPa atca. 25 °C
Method: OECD Test Guideline 104
1 kPa at 50 °C
calculated
- Melting point/freezing point : Setting point
< -74 °C at 993 hPa
- Boiling point : ca. 196 °C at992 hPa
Method: OECD Test Guideline 103
GLP: yes

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Partition coefficient: n-octanol/water	:	log Pow: 2,84
pH	:	Not applicable
Evaporation rate	:	Lower than the evaporation rate of butyl acetate = 1
Flammability (solid, gas)	:	Not applicable
Auto-ignition temperature	:	260 °C at 994 hPa
Decomposition temperature	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Explosive properties	:	Due to its structural properties, the product is not classified as explosive
Lower explosion limit	:	Vapours may form explosive mixtures with air.
Upper explosion limit	:	Vapours may form explosive mixtures with air.

A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

9.2 Other data

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	:	No data available
10.2 Chemical stability	:	No data available
10.3 Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	:	No data available
10.5 Incompatible materials to avoid	:	No data available
10.6 Hazardous decomposition products	:	No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	:	LD50 Rat: 2.790 mg/kg, OECD Test Guideline 401
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	LD50 Rabbit: > 5000 mg/kg, OECD Test Guideline 402
Repeated dose toxicity	:	No data available
Acute toxicity (other routes of administration)	:	No data available
Skin irritation	:	Rabbit: Skin irritation @ 100 %

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Eye irritation	: Rabbit: Irritating to eyes. @ 100 %
Sensitisation	: Mouse: Sensitizing effect. @ 35,5 %
Mutagenicity	: Did not show mutagenic effects in animal experiments.
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Teratogenicity	: No data available
Specific target organ toxicity - single exposure	: No data available
Specific target organ toxicity - repeated exposure	: No data available
Aspiration toxicity	: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute Fish toxicity	: LC50: 27,8 mg/l/96 h; Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203
Acute toxicity Aquatic invertebrates	: EC50: 59 mg/l/48 h; Daphnia magna (Water flea), OECD Test Guideline 202
Toxicity to aquatic plants	: EC50: 156,7 mg/l/96 h; Desmodesmus subspicatus (green algae), DIN 38412 (part 9) EC10: 54,3 mg/l/96 h; Desmodesmus subspicatus (green algae), DIN 38412 (part 9)
Toxicity to microorganisms	: EC50: > 100 mg/l/3 h; Activated sludge, OECD 209

12.2 Persistence and degradability

Readily biodegradable.
64,2 %/28 d, OECD 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 Other adverse effects

None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Product : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. The product should not be allowed to enter drains, water courses or the soil.
- Contaminated packaging : Empty remaining contents. Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

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

National legislation

Risk classification according to BetrSichV (Germany) : Flash Point > 55 °C up to 100 °C, at 15 °C not miscible with water

Water contaminating class (Germany) : WGK 1 (slightly water endangering)
1,135 VwVwS Annex 2

15.2 Chemical safety assessment

No data available

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SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.:

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

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.