acc. to Regulation (EC) No. 1907/2006 (REACH)

Oil of clary-sage natural natural

article number: **3355**Version: **2.0 en**date of compilation: 2021-04-15
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Version: (1)



1.1 Product identifier

Identification of the substance Oil of clary-sage natural natural

Article number 3355

EC number 283-911-8 CAS number 84775-83-7

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for private purposes (household).

Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data
Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.45	Skin sensitisation	1	Skin Sens. 1	H317
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

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For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

Signal word Warning

Pictograms

GHS07



Hazard statements

H315 Causes skin irritation

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

H412 Harmful to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P280 Wear protective gloves/eye protection

Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

Hazardous ingredients for labelling: Acetic acid linally ester, Linalool, DL-α-Pinene,

Myrcene, Geranyl acetate, β-Caryophyllene, Ď-(+)-Limonene, Geraniol, Nerol, Terpinolene, β-Pinene

2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Oil of clary-sage

CAS No 84775-83-7 EC No 283-911-8

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Impurities/additives/constituents:



Name of substance	Identifier	Wt%
Acetic acid linalyl ester	CAS No 115-95-7	50 – 70
	EC No 204-116-4	
Linalool	CAS No 78-70-6	10 - 19
	EC No 201-134-4	
	Index No 603-235-00-2	
Geranyl acetate	CAS No 105-87-3	<1
	EC No 203-341-5	
Geraniol	CAS No 106-24-1	<1
	EC No 203-377-1	
	Index No 603-241-00-5	
Nerol	CAS No 106-25-2	<1
	EC No 203-378-7	
Myrcene	CAS No 123-35-3	<1
	EC No 204-622-5	
ß-Pinene	CAS No 127-91-3	<1
	EC No 204-872-5	
Terpinolene	CAS No 586-62-9	<1
	EC No 209-578-0	
D-(+)-Limonene	CAS No 5989-27-5	<1
	EC No 227-813-5	
	Index No 601-096-00-2	
Camphene	CAS No 79-92-5	<1
	EC No 201-234-8	

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Name of substance	Identifier	Wt%
DL-α-Pinene	CAS No 80-56-8 EC No 201-291-9	< 1
β-Caryophyllene	CAS No 87-44-5 EC No 201-746-1	<1

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air.

Following skin contact

In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Vomiting, Irritation, Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

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5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO), Carbon dioxide (CO₂), May produce toxic fumes of carbon monoxide if burning.

or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe vapour/spray.

6.2 **Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

Precautions for safe handling 7.1

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.



Unsuitable extinguishing media

water jet

Hazardous combustion products

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains

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Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities 7.2

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
GB	hydrocarbon mix- ture (RCP method)		WEL		800		1.600				EH40/ 2005
GB	cycloalkanes (>C7)	80-56-8	WEL		800						EH40/ 2005

Notation

Ceiling-C STEL

TWA

Ceiling value is a limit value above which exposure should not occur

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

Relevant DNELs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Acetic acid linalyl ester	115-95-7	DNEL	2,75 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Acetic acid linalyl ester	115-95-7	DNEL	2,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Acetic acid linalyl ester	115-95-7	DNEL	236,2 μg/ cm²	human, dermal	worker (industry)	chronic - local ef- fects
Acetic acid linalyl ester	115-95-7	DNEL	236,2 μg/ cm²	human, dermal	worker (industry)	acute - local ef- fects
Linalool	78-70-6	DNEL	2,8 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16,5 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects

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Relevant DNELs of components										
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time				
Linalool	78-70-6	DNEL	2,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects				
Geranyl acetate	105-87-3	DNEL	62,59 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects				
Geranyl acetate	105-87-3	DNEL	35,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
D-(+)-Limonene	5989-27-5	DNEL	66,7 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects				
D-(+)-Limonene	5989-27-5	DNEL	9,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
Geraniol	106-24-1	DNEL	161,6 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects				
Geraniol	106-24-1	DNEL	12,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
Geraniol	106-24-1	DNEL	11.800 µg/ cm²	human, dermal	worker (industry)	chronic - local ef- fects				
Nerol	106-25-2	DNEL	4,4 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects				
Nerol	106-25-2	DNEL	1,25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
DL-α-Pinene	80-56-8	DNEL	3,8 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects				
DL-α-Pinene	80-56-8	DNEL	0,542 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
ß-Pinene	127-91-3	DNEL	5,69 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects				
ß-Pinene	127-91-3	DNEL	0,8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
ß-Pinene	127-91-3	DNEL	54 μg/cm²	human, dermal	worker (industry)	chronic - local ef- fects				
Camphene	79-92-5	DNEL	110,2 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects				
Camphene	79-92-5	DNEL	110,2 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects				
Camphene	79-92-5	DNEL	0,21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
Camphene	79-92-5	DNEL	1,25 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects				

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Relevant PNECs						
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Acetic acid linalyl ester	115-95-7	PNEC	0,011 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (singl instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,001 ^{mg} / _l	aquatic organ- isms	marine water	short-term (singl instance)
Acetic acid linalyl ester	115-95-7	PNEC	1 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (singl instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,609 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (singl instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,061 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (sing instance)
Acetic acid linalyl ester	115-95-7	PNEC	0,115 ^{mg} / kg	terrestrial organ- isms	soil	short-term (sing instance)
Linalool	78-70-6	PNEC	0,2 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
Linalool	78-70-6	PNEC	0,02 ^{mg} / _l	aquatic organ- isms	marine water	short-term (sing instance)
Linalool	78-70-6	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
Linalool	78-70-6	PNEC	2,22 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)
Linalool	78-70-6	PNEC	0,222 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (sing instance)
Linalool	78-70-6	PNEC	0,327 ^{mg} / kg	terrestrial organ- isms	soil	short-term (sing instance)
Geranyl acetate	105-87-3	PNEC	3,72 ^{µg} / _I	aquatic organ- isms	freshwater	short-term (sing instance)
Geranyl acetate	105-87-3	PNEC	0,372 ^{µg} / _l	aquatic organ- isms	marine water	short-term (sing instance)
Geranyl acetate	105-87-3	PNEC	8 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
Geranyl acetate	105-87-3	PNEC	0,442 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)
Geranyl acetate	105-87-3	PNEC	0,044 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (sing instance)
Geranyl acetate	105-87-3	PNEC	0,086 ^{mg} / kg	terrestrial organ- isms	soil	short-term (sing instance)
D-(+)-Limonene	5989-27-5	PNEC	14 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
D-(+)-Limonene	5989-27-5	PNEC	1,4 ^{µg} / _I	aquatic organ- isms	marine water	short-term (sing instance)
D-(+)-Limonene	5989-27-5	PNEC	1,8 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
D-(+)-Limonene	5989-27-5	PNEC	3,85 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)

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Relevant PNECs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure tim
D-(+)-Limonene	5989-27-5	PNEC	0,385 ^{mg} /	aquatic organ- isms	marine sediment	short-term (sing instance)
D-(+)-Limonene	5989-27-5	PNEC	0,763 ^{mg} / kg	terrestrial organ- isms	soil	short-term (sing instance)
Geraniol	106-24-1	PNEC	0,011 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
Geraniol	106-24-1	PNEC	0,001 ^{mg} / _l	aquatic organ- isms	marine water	short-term (sing instance)
Geraniol	106-24-1	PNEC	0,7 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
Geraniol	106-24-1	PNEC	0,115 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)
Geraniol	106-24-1	PNEC	0,011 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (sing instance)
Geraniol	106-24-1	PNEC	0,017 ^{mg} / kg	terrestrial organ- isms	soil	short-term (sing instance)
Nerol	106-25-2	PNEC	7,45 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
Nerol	106-25-2	PNEC	0,745 ^{µg} / _I	aquatic organ- isms	marine water	short-term (sing instance)
Nerol	106-25-2	PNEC	12,9 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)
Nerol	106-25-2	PNEC	133 ^{µg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (sing instance)
Nerol	106-25-2	PNEC	13,3 ^{µg} / _{kg}	aquatic organ- isms	marine sediment	short-term (sing instance)
Nerol	106-25-2	PNEC	22,3 ^{µg} / _{kg}	terrestrial organ- isms	soil	short-term (sing instance)
DL-α-Pinene	80-56-8	PNEC	0,606 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
DL-α-Pinene	80-56-8	PNEC	0,061 ^{µg} / _l	aquatic organ- isms	marine water	short-term (sing instance)
DL-α-Pinene	80-56-8	PNEC	0,2 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (sin- instance)
DL-α-Pinene	80-56-8	PNEC	157 ^{µg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (sin instance)
DL-α-Pinene	80-56-8	PNEC	15,7 ^{µg} / _{kg}	aquatic organ- isms	marine sediment	short-term (sing instance)
DL-α-Pinene	80-56-8	PNEC	31,7 ^{µg} / _{kg}	terrestrial organ- isms	soil	short-term (sing instance)
ß-Pinene	127-91-3	PNEC	1,004 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (sing instance)
ß-Pinene	127-91-3	PNEC	0,1 ^{µg} / _l	aquatic organ- isms	marine water	short-term (sing instance)

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Relevant PNECs	Relevant PNECs of components										
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time					
ß-Pinene	127-91-3	PNEC	3,26 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)					
ß-Pinene	127-91-3	PNEC	0,337 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)					
ß-Pinene	127-91-3	PNEC	0,034 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)					
ß-Pinene	127-91-3	PNEC	0,067 ^{mg} / kg	terrestrial organ- isms	soil	short-term (single instance)					
Camphene	79-92-5	PNEC	0,001 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)					
Camphene	79-92-5	PNEC	0 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)					
Camphene	79-92-5	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)					
Camphene	79-92-5	PNEC	0,026 ^{mg} / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)					
Camphene	79-92-5	PNEC	0,003 ^{mg} / kg	aquatic organ- isms	marine sediment	short-term (single instance)					
Camphene	79-92-5	PNEC	0,021 ^{mg} /	terrestrial organ- isms	soil	short-term (single instance)					

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection.

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

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type of material

Butyl caoutchouc (butyl rubber)

material thickness

0.7mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid

Form

Colour light yellow Odour characteristic Melting point/freezing point <-20 °C (ECHA)

Boiling point or initial boiling point and boiling 189,2 °C at 101,3 kPa (ECHA)

range

Flammability

this material is combustible, but will not ignite readily

Lower and upper explosion limit 0,9 vol% (LEL) - 5,2 vol% (UEL) Flash point 84,5 °C at 101.325 Pa (ECHA)

Auto-ignition temperature 260 °C at 100.105 Pa (ECHA)

Decomposition temperature not relevant pH (value) not determined Kinematic viscosity not determined

Solubility(ies)

not determined Water solubility

Partition coefficient

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Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure <1 hPa at 20 °C

Density and/or relative density

Density $0.897 \, ^{9}/_{cm^{3}}$ at 20 °C (ECHA)

Relative vapour density Information on this property is not available.

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Surface tension 54,15 $^{\text{mN}}$ /_m (19,9 $^{\circ}$ C) (ECHA)

Refractive index 1,455 – 1,465

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	5.600 ^{mg} / _{kg}	rat		ECHA

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
DL-α-Pinene	80-56-8	oral	1.000 ^{mg} / _{kg}

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Acetic acid linalyl ester	115-95-7	oral	LD50	>9.000 ^{mg} / _{kg}	rat
Acetic acid linalyl ester	115-95-7	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit
Linalool	78-70-6	oral	LD50	2.790 ^{mg} / _{kg}	rat
Linalool	78-70-6	dermal	LD50	5.610 ^{mg} / _{kg}	rabbit
Myrcene	123-35-3	oral	LD50	>3.380 ^{mg} / _{kg}	mouse
Myrcene	123-35-3	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit
Geranyl acetate	105-87-3	oral	LD50	6.330 ^{mg} / _{kg}	rat
β-Caryophyllene	87-44-5	oral	LD50	>5.000 ^{mg} / _{kg}	mouse
D-(+)-Limonene	5989-27-5	oral	LD50	>2.000 ^{mg} / _{kg}	rat
Geraniol	106-24-1	oral	LD50	3.600 ^{mg} / _{kg}	rat
Geraniol	106-24-1	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit
Nerol	106-25-2	oral	LD50	4.500 ^{mg} / _{kg}	rat
Nerol	106-25-2	dermal	LD50	>5.000 ^{mg} / _{kg}	rabbit
Terpinolene	586-62-9	oral	LD50	>2.000 ^{mg} / _{kg}	rat
Terpinolene	586-62-9	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
DL-α-Pinene	80-56-8	dermal	LD50	>2.000 ^{mg} / _{kg}	rat
DL-α-Pinene	80-56-8	oral	LD50	3.700 ^{mg} / _{kg}	rat
ß-Pinene	127-91-3	oral	LD50	4.700 ^{mg} / _{kg}	rat

Skin corrosion/irritation

Causes skin irritation.

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Germ cell mutagenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Data are not available.

• If in eyes

If inhaled

Data are not available.

• If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

Other information

none

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

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Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

If swallowed

Causes serious eye irritation

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

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Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
EL50	14 ^{mg} / _l	aquatic invertebrates	ECHA	48 h

Aquatic toxicity (acute) of components

Acetic acid linalyl ester Acetic acid linalyl ester Linalool Linalool T Linalool Ayrcene Myrcene Myrcene 12 Geranyl acetate Geranyl acetate Geranyl acetate β-Caryophyllene β-Caryophyllene D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 11 Geraniol 11	15-95-7 15-95-7 15-95-7 18-70-6 18-70-6 18-70-6 23-35-3 23-35-3 23-35-3 23-35-3 23-35-3 23-35-3 23-35-3 23-35-3 23-35-3 23-35-3 23-35-3	ErC50 LC50 EC50 EC50 EC50 EC50 EC50 EC50 ErC50 EC50 EC50 EC50 EC50 EC50 EC50	62 mg/ _I 11 mg/ _I 59 mg/ _I 27,8 mg/ _I 59 mg/ _I 156,7 mg/ _I 1,47 mg/ _I 0,31 mg/ _I 0,342 mg/ _I 44,1 mg/ _I 3,72 mg/ _I >0,17 mg/ _I	algae fish aquatic invertebrates fish aquatic invertebrates algae aquatic invertebrates algae fish aquatic invertebrates algae daphnia magna	72 h 96 h 48 h 96 h 48 h 96 h 48 h 72 h 72 h 96 h 48 h 72 h 48 h
Acetic acid linalyl ester 1.7 Linalool 7 Linalool 7 Myrcene 1.2 Myrcene 1.2 Myrcene 1.3 Geranyl acetate 1.0 Geranyl acetate 1.0 Geranyl acetate 1.0 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 1.0 Geraniol 1.0	15-95-7 18-70-6 18-70-6 18-70-6 23-35-3 23-35-3 23-35-3 05-87-3 05-87-3 05-87-3 17-44-5 17-44-5	EC50 LC50 EC50 EC50 EC50 EC50 EC50 ErC50 LC50 EC50 EC50 EC50	59 mg/ _I 27,8 mg/ _I 59 mg/ _I 156,7 mg/ _I 1,47 mg/ _I 0,31 mg/ _I 0,342 mg/ _I 68,12 mg/ _I 14,1 mg/ _I 3,72 mg/ _I >0,17 mg/ _I	aquatic invertebrates fish aquatic invertebrates algae aquatic invertebrates algae algae fish aquatic invertebrates	48 h 96 h 48 h 96 h 48 h 72 h 72 h 96 h 48 h
Linalool 7 Linalool 7 Linalool 7 Myrcene 12 Myrcene 12 Myrcene 13 Geranyl acetate 16 Geranyl acetate 16 Geranyl acetate 16 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	8-70-6 8-70-6 8-70-6 23-35-3 23-35-3 23-35-3 05-87-3 05-87-3 05-87-3 17-44-5	EC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50	27,8 mg/ 59 mg/ 156,7 mg/ 1,47 mg/ 0,31 mg/ 0,342 mg/ 68,12 mg/ 14,1 mg/ 3,72 mg/ >0,17 mg/	fish aquatic invertebrates algae aquatic invertebrates algae algae fish aquatic invertebrates	96 h 48 h 96 h 48 h 72 h 72 h 96 h 48 h
Linalool 7 Linalool 7 Myrcene 12 Myrcene 12 Myrcene 12 Geranyl acetate 10 Geranyl acetate 10 Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	8-70-6 8-70-6 23-35-3 23-35-3 23-35-3 05-87-3 05-87-3 05-87-3 17-44-5	EC50 ErC50 EC50 EC50 EC50 ErC50 EC50 EC50 EC50 EC50	59 mg/ _I 156,7 mg/ _I 1,47 mg/ _I 0,31 mg/ _I 0,342 mg/ _I 68,12 mg/ _I 14,1 mg/ _I 3,72 mg/ _I >0,17 mg/ _I	aquatic invertebrates algae aquatic invertebrates algae algae fish aquatic invertebrates algae	48 h 96 h 48 h 72 h 72 h 96 h 48 h
Linalool 7 Myrcene 12 Myrcene 12 Myrcene 12 Myrcene 12 Geranyl acetate 10 Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	28-70-6 23-35-3 23-35-3 23-35-3 23-35-3 05-87-3 05-87-3 37-44-5	ErC50 EC50 EC50 ErC50 LC50 EC50 EC50 EC50	156,7 ^{mg} / _I 1,47 ^{mg} / _I 0,31 ^{mg} / _I 0,342 ^{mg} / _I 68,12 ^{mg} / _I 14,1 ^{mg} / _I 3,72 ^{mg} / _I >0,17 ^{mg} / _I	algae aquatic invertebrates algae algae fish aquatic invertebrates algae	96 h 48 h 72 h 72 h 96 h 48 h
Myrcene 12 Myrcene 12 Myrcene 13 Geranyl acetate 10 Geranyl acetate 10 Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	23-35-3 23-35-3 23-35-3 05-87-3 05-87-3 05-87-3 37-44-5	EC50 EC50 LC50 EC50 EC50 EC50 EC50	1,47 ^{mg} / _I 0,31 ^{mg} / _I 0,342 ^{mg} / _I 68,12 ^{mg} / _I 14,1 ^{mg} / _I 3,72 ^{mg} / _I >0,17 ^{mg} / _I	aquatic invertebrates algae algae fish aquatic invertebrates algae	48 h 72 h 72 h 96 h 48 h 72 h
Myrcene 12 Myrcene 13 Geranyl acetate 10 Geranyl acetate 10 Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	23-35-3 23-35-3 05-87-3 05-87-3 05-87-3 87-44-5	EC50 ErC50 LC50 EC50 EC50 EC50	0,31 ^{mg} / _I 0,342 ^{mg} / _I 68,12 ^{mg} / _I 14,1 ^{mg} / _I 3,72 ^{mg} / _I >0,17 ^{mg} / _I	algae algae fish aquatic invertebrates algae	72 h 72 h 96 h 48 h 72 h
Myrcene 12 Geranyl acetate 10 Geranyl acetate 10 Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	23-35-3 05-87-3 05-87-3 05-87-3 17-44-5	ErC50 LC50 EC50 ErC50	0,342 ^{mg} / _l 68,12 ^{mg} / _l 14,1 ^{mg} / _l 3,72 ^{mg} / _l >0,17 ^{mg} / _l	algae fish aquatic invertebrates algae	72 h 96 h 48 h 72 h
Geranyl acetate 10 Geranyl acetate 10 Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	05-87-3 05-87-3 05-87-3 87-44-5	EC50 ErC50 EC50	68,12 ^{mg} / _l 14,1 ^{mg} / _l 3,72 ^{mg} / _l >0,17 ^{mg} / _l	fish aquatic invertebrates algae	96 h 48 h 72 h
Geranyl acetate 10 Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	05-87-3 05-87-3 17-44-5 17-44-5	EC50 ErC50 EC50	14,1 ^{mg} / _l 3,72 ^{mg} / _l >0,17 ^{mg} / _l	aquatic invertebrates	48 h 72 h
Geranyl acetate 10 β-Caryophyllene 8 β-Caryophyllene 8 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10	05-87-3 87-44-5 87-44-5	ErC50 EC50	3,72 ^{mg} / _l >0,17 ^{mg} / _l	algae	72 h
β-Caryophyllene8β-Caryophyllene8D-(+)-Limonene59D-(+)-Limonene59D-(+)-Limonene59Geraniol10Geraniol10	37-44-5 37-44-5	EC50	>0,17 ^{mg} / _l	-	
β-Caryophyllene8D-(+)-Limonene59D-(+)-Limonene59D-(+)-Limonene59Geraniol10Geraniol10	37-44-5		·	daphnia magna	48 h
D-(+)-Limonene 59 D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10		ErC50			
D-(+)-Limonene 59 D-(+)-Limonene 59 Geraniol 10 Geraniol 10			>0,033 ^{mg} / _l	algae	72 h
D-(+)-Limonene 59 Geraniol 10 Geraniol 10	89-27-5	LC50	0,46 ^{mg} / _l	fish	96 h
Geraniol 10	89-27-5	EC50	0,307 ^{mg} / _l	aquatic invertebrates	48 h
Geraniol 10	89-27-5	ErC50	0,32 ^{mg} / _l	algae	72 h
	06-24-1	LC50	22 ^{mg} / _l	fish	96 h
	06-24-1	EC50	10,8 ^{mg} / _l	aquatic invertebrates	48 h
Geraniol 10	06-24-1	ErC50	13,1 ^{mg} / _l	algae	72 h
Nerol 10	06-25-2	LC50	20,3 ^{mg} / _l	fish	96 h
Nerol 10	06-25-2	EC50	32,4 ^{mg} / _l	aquatic invertebrates	48 h
Nerol 10	06-25-2	ErC50	9,54 ^{mg} / _l	algae	72 h
Terpinolene 58	86-62-9	LC50	0,805 ^{mg} / _l	fish	96 h
Terpinolene 58	86-62-9	EC50	0,634 ^{mg} / _l	aquatic invertebrates	48 h
Terpinolene 58	86-62-9	ErC50	0,692 ^{mg} / _l	algae	72 h
DL-α-Pinene 8	80-56-8	LC50	0,303 ^{mg} / _l	fish	96 h

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Aquatic toxicity (acute) of components								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
DL-α-Pinene	80-56-8	EC50	0,475 ^{mg} / _l	aquatic invertebrates	48 h			
ß-Pinene	127-91-3	LC50	0,68 ^{mg} / _l	rainbow trout (Onco- rhynchus mykiss)	96 h			
ß-Pinene	127-91-3	EC50	1,09 ^{mg} / _l	daphnia magna	48 h			
ß-Pinene	127-91-3	ErC50	0,7 ^{mg} / _l	Pseudokirchneriella subcapitata	72 h			
Camphene	79-92-5	LC50	0,72 ^{mg} / _l	fish	96 h			
Camphene	79-92-5	EC50	0,72 ^{mg} / _l	aquatic invertebrates	48 h			
Camphene	79-92-5	ErC50	>1.000 ^{mg} / _l	algae	72 h			

Aquatic toxicity (chronic) of components								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Acetic acid linalyl ester	115-95-7	LC50	11,14 ^{mg} / _l	fish	20 h			
Linalool	78-70-6	EC50	>100 ^{mg} / _l	microorganisms	30 min			
D-(+)-Limonene	5989-27-5	EC50	<0,67 ^{mg} / _l	fish	8 d			
D-(+)-Limonene	5989-27-5	EC50	188 ^{µg} / _I	aquatic invertebrates	21 d			
Geraniol	106-24-1	EC50	70 ^{mg} / _l	microorganisms	30 min			
Nerol	106-25-2	EC50	241 ^{mg} / _l	microorganisms	3 h			
Terpinolene	586-62-9	EC50	69 ^{mg} / _l	microorganisms	3 h			
ß-Pinene	127-91-3	EC50	326 ^{mg} / _l	microorganisms	3 h			
Camphene	79-92-5	EC50	>1.000 ^{mg} / _l	microorganisms	3 h			

12.2 Persistence and degradability

2,718 ^{mg}/_{mg}

Degradability of components						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Acetic acid linalyl ester	115-95-7	oxygen deple- tion	≥0 - ≤10 %	1 d		ECHA
Linalool	78-70-6	oxygen deple- tion	40,9 %	5 d		ECHA
Myrcene	123-35-3	oxygen deple- tion	76 %	28 d		ECHA
Geranyl acet- ate	105-87-3	oxygen deple- tion	>70 %	28 d		ECHA
β-Caryophyl- lene	87-44-5	oxygen deple- tion	10 %	28 d		ECHA

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Degradability of components						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
D-(+)-Limonene	5989-27-5	carbon dioxide generation	58,8 %	14 d		ECHA
D-(+)-Limonene	5989-27-5	oxygen deple- tion	80 %	28 d		ECHA
Geraniol	106-24-1	DOC removal	90 – 100 %	3 d		ECHA
Nerol	106-25-2	oxygen deple- tion	90 %	28 d		ECHA
Terpinolene	586-62-9	oxygen deple- tion	81 %	28 d		ECHA
DL-α-Pinene	80-56-8	oxygen deple- tion	68 %	28 d		ECHA
ß-Pinene	127-91-3	oxygen deple-	76 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative	notential	of comp	onents
Divacculliulative	potential	OI COIIID	OHEHLS

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Acetic acid linalyl ester	115-95-7	174	3,9 (25 °C)	
Linalool	78-70-6		2,9 (pH value: 7, 20 °C)	
Myrcene	123-35-3		4,82 (pH value: ~6,5, 30 °C)	
Geranyl acetate	105-87-3		4,04	
β-Caryophyllene	87-44-5		6,23 (pH value: 7, 25 °C)	
D-(+)-Limonene	5989-27-5		4,38 (pH value: 7,2, 37 °C)	
Geraniol	106-24-1		2,6 (25 °C)	
Nerol	106-25-2		2,76 (pH value: ~6,5, 30 °C)	
Terpinolene	586-62-9		4,47	
DL-α-Pinene	80-56-8		4,83	
Camphene	79-92-5		4,22 (pH value: 7,2, 37 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 4 irritant - skin irritation and eye damage

HP 13 sensitising

HP 14 ecotoxic

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

UN number or ID number	not subject to transport regulations
	, , ,
	UN number or ID number

14.2 UN proper shipping name not assigned

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/	2012/18/EU (Seveso III)							
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes					
	not assigned							

Deco-Paint Directive

VOC content	99,1 %
VOC content	888,9 ^g / _l

Industrial Emissions Directive (IED)

VOC content	96,4 %
VOC content	864,7 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Myrcene	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	
Linalool	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

a) Indicative list of the main pollutants

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Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

not listed

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Oil of clary-sage	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3
Myrcene	flammable / pyrophoric		40
ß-Pinene	flammable / pyrophoric		40
D-(+)-Limonene	flammable / pyrophoric		40
Camphene	flammable / pyrophoric		40
DL-α-Pinene	flammable / pyrophoric		40

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed

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Country	Inventory	Status
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	all ingredients are listed

Legend

AIIC CICR CSCL-ENCS DSL ECSI Australian Inventory of Industrial Chemicals

Australian Inventory of Industrial Chemicals
Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances **IECSC**

INSQ

ISHA-ENCS Inventory of Existing and New Chemical Substances (ISHA-ENCS)

Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI Korea Existing Chemicals Inventory
NCI National Chemical Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

TSCA Toxic Substance Control Act

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Hazardous ingredients for labelling: Linalool, DL-α-Pinene, β-Caryophyllene, D-(+)-Li- monene, Geranyl acetate, Geraniol, Nerol, Terpinolene, β-Pinene	Hazardous ingredients for labelling: Acetic acid linalyl ester, Linalool, DL-α-Pinene, Myrcene, Geranyl acetate, β-Caryophyllene, D- (+)-Limonene, Geraniol, Nerol, Terpinolene, β- Pinene	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Warning		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Linalool, DL-α-Pinene, β-Caryophyllene, D-(+)-Li- monene, Geranyl acetate, Geraniol, Nerol, Terpinolene, β-Pinene		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information: not assigned		yes
15.1	Restrictions according to REACH, Annex XVII		yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1	List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list: Not listed.		yes
15.1	VOC content: 99,1 % 888,9 ⁹ / _l	VOC content: 99,1 %	yes
15.1		VOC content: 888,9 ^g / _l	yes
15.1		Regulation on persistent organic pollutants (POP): not listed	yes
15.1		National regulations(GB)	yes
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: not listed	yes
15.1		Restrictions according to GB REACH, Annex 17	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value

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Abbr.	Descriptions of used abbreviations
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RCP	Reciprocal calculation procedure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit

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acc. to Regulation (EC) No. 1907/2006 (REACH)

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Abbr.	Descriptions of used abbreviations
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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