

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Spring Garden Fragrance Oil

Creation date: 07.06.2026, Revision: 07.06.2026, Version: 1.0

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

1.1 Product identifier

Product name

Spring Garden Fragrance Oil

Product code

[AL00533]

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

Relevant identified uses

Fragrance compositions.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

Farmadria DOO
Heroja Pinkija 44
26300 Vršac, Serbia
+381695565029
info@avenalab.com
<https://avenalab.com/>

1.4 Emergency Telephone Number

Emergency

112

Supplier

+381695565029

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

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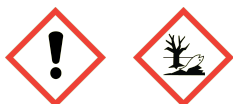
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Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Irrit. 2; H319 Causes serious eye irritation.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: WARNING

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

linalyl acetate
d-limonene
linalool
(-)-pin-2(10)-ene
citronellol
7-hydroxycitronellal
geraniol
cedryl acetate
methyl atrarate
pin-2(3)-ene
citral
 α -methyl-1,3-benzodioxole-5-propionaldehyde
estragole (methyl chavicol)
l-carvone
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

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2,4-dimethylcyclohex-3-ene-1-carbaldehyde
 Geranyl acetate
 coumarin
 dodecanal

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
linalyl acetate	115-95-7 204-116-4 -	5.45	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
d-limonene	5989-27-5 227-813-5 601-096-00-2	4.12	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 3; H412	/	/
linalool	78-70-6 201-134-4 603-235-00-2	3.22	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
2-methyl-4-phenylbutan-2-ol	103-05-9 255-574-7 -	3.18	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	/	/
(Z)-3-hexenyl salicylate	65405-77-8 265-745-8 -	2.67	Repr. 2; H361 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	oral: ATE = 2500 mg/kg bw	/
terpineol	8000-41-7 701-188-3 -	2.28	Skin Irrit. 2; H315 Eye Irrit. 2; H319	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1 203-966-3 -	1.36	Acute Tox. 4; H302 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	oral: ATE = 500 mg/kg bw	/
(-)-pin-2(10)-ene	127-91-3 204-872-5 -	1.22	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
citronellol	106-22-9 203-375-0 -	1.2	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
5-methyl-3-heptanone oxime	22457-23-4 245-010-8 -	0.91	Aquatic Chronic 3; H412	/	/
7-hydroxycitronellal	107-75-5 203-518-7 -	0.82	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
geraniol	106-24-1 203-377-1 603-241-00-5	0.75	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318	Skin Irrit. 2; H315; C ≥ 1.72% Skin Sens. 1; H317; C ≥ 1.72% Eye Dam. 1; H318; C ≥ 1.72% oral: ATE = 3600 mg/kg bw	/
allyl (3-methylbutoxy)acetate	67364-00-8 266-803-5 -	0.73	Acute Tox. 4; H302 Skin Irrit. 2; H315 Acute Tox. 2; H330	oral: ATE = 500 mg/kg bw inhalation: ATE = 0.05 mg/l (dusts or mists)	/
cedryl acetate	77-54-3 201-036-1 -	0.68	Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
methyl atrarate	4707-47-5 225-193-0 -	0.64	Skin Sens. 1B; H317	/	/

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pin-2(3)-ene	80-56-8 201-291-9 -	0.59	Flam. Liq. 3; H226 Acute Tox. 4; H302 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	oral: ATE = 500 mg/kg bw	/
p-cymene	99-87-6 202-796-7 -	0.48	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Repr. 2; H361 Aquatic Chronic 2; H411	/	/
citral	5392-40-5 226-394-6 605-019-00-3	0.4	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	/	/
p-mentha-1,4- diene	99-85-4 202-794-6 -	0.3	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Repr. 2; H361 Aquatic Chronic 2; H411	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
cedrol	77-53-2 201-035-6 -	0.29	Aquatic Chronic 2; H411	/	/
α -methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6 605-042-00-9	0.27	Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 2; H411	/	/
estragole (methyl chavicol)	140-67-0 205-427-8 -	0.27	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	/	/
undecan-4-olide	104-67-6 203-225-4 -	0.27	Aquatic Chronic 3; H412	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6 201-224-3 -	0.27	Aquatic Chronic 2; H411	/	/
α,α -dimethylphenethyl acetate	151-05-3 205-781-3 -	0.23	Skin Irrit. 2; H315 Aquatic Chronic 3; H412	oral: ATE = 3300 mg/kg bw	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
5-methylheptan-3-one	541-85-5 208-793-7 606-020-00-1	0.18	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335	inhalation: ATE = 1.5 mg/l (dusts or mists)	/
l-carvone	6485-40-1 229-352-5 -	0.18	Skin Sens. 1B; H317	/	/
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5 204-846-3 -	0.18	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	/	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 268-264-1 -	0.18	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	/	/
Geranyl acetate	105-87-3 203-341-5 -	0.15	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
coumarin	91-64-5 202-086-7 -	0.14	Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	oral: ATE = 500 mg/kg bw	/
7-methyl-3-methylene-1,6-octadiene	123-35-3 204-622-5 -	0.13	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	/	/
1-phenylethanol	98-85-1 202-707-1 -	0.13	Acute Tox. 4; H302 Eye Irrit. 2; H319	oral: ATE = 500 mg/kg bw	/
dodecanal	112-54-9 203-983-6 -	0.12	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	/	/
neryl acetate	141-12-8 205-459-2 -	0.1	Skin Sens. 1B; H317	/	/

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allyl 3-cyclohexylpropionate	2705-87-5 204-712-4 -	0.05	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Sens. 1; H317 Acute Tox. 4; H332 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	oral: ATE = 500 mg/kg bw dermal: ATE = 1100 mg/kg bw inhalation: ATE = 1.5 mg/l (dusts or mists)	/
[1S-(1 α ,3 α β ,4 α ,8 α β)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene	475-20-7 207-491-2 -	0.04	Asp. Tox. 1; H304 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 10 Aquatic Chronic 1; H410; M = 1	/	/
p-mentha-1,4(8)-diene	586-62-9 209-578-0 -	0.02	Asp. Tox. 1; H304 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
beta-Caryophyllene	87-44-5 201-746-1 -	0.02	Asp. Tox. 1; H304 Skin Sens. 1B; H317 Aquatic Chronic 4; H413	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
5-methylheptan-3-one	541-85-5 208-793-7 606-020-00-1	/	/	STOT SE 3; H335; C ≥ 10%	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician! Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Following skin contact

Itching, redness, pain. May cause sensitisation by skin contact (itching, redness, rashes).

Following eye contact

Redness, tearing, pain.

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Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

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Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

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Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
5-Methylhepta n-3-one (541-85-5)	53	10	107	20	/	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

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Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022/A1:2025).

Hand protection

Protective gloves (EN ISO 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

No information.

Skin protection

Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

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Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	Yellow.
Odour	Powdered. floral. Green.
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	> 100 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.

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Vapour pressure	No information.
Relative density	0.905
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

No information.

10.5 Incompatible materials

No information.

10.6 Hazardous decomposition products

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Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
linalyl acetate	oral	LD ₅₀	rat	/	> 9000 mg/kg bodyweight	/	Animal: rat
linalyl acetate	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg bodyweight	/	Animal: rabbit
linalool	/	ATE	/	/	2790 mg/kg	/	Linalool ETAO : 2790,00 mg/kg (Déterminée) ETAC : Non déterminée ETAI : Non déterminée
2-methyl-4-phenylbutan-2-ol	oral	LD ₅₀	rat	/	4490 mg/kg	/	/
2-methyl-4-phenylbutan-2-ol	oral	ATE	/	/	4490 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
(Z)-3-hexenyl salicylate	dermal	LD ₅₀	rabbit	/	> 5 g/kg	/	/
(Z)-3-hexenyl salicylate	oral	LD ₅₀	rat	/	> 5 g/kg	/	/
(Z)-3-hexenyl salicylate	oral	ATE	/	/	5000 mg/kg	/	/
terpineol	oral	LD ₅₀	rat	/	> 2000 mg/kg bodyweight	/	Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
terpineol	dermal	LD ₅₀	rat	/	> 2000 mg/kg bodyweight	/	Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
terpineol	inhalation	LC ₅₀	rat	/	> 4.76 mg/l air	/	Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

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Product name: Spring Garden Fragrance Oil

Creation date: 07.06.2026, Revision: 07.06.2026, Version: 1.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	oral	LD ₅₀	rat	/	964 mg/kg	/	/
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	dermal	LD ₅₀	/	/	7940 mg/kg	/	/
citronellol	/	ATE	/	/	3450 mg/kg	/	ETAO : 3 450,00 mg/kg(Déterminée) ETAC : 2 650,00 mg/kg(Déterminée) ETAI : Non déterminée
citronellol	/	ATE	/	/	2650 mg/kg	/	ETAO : 3 450,00 mg/kg(Déterminée) ETAC : 2 650,00 mg/kg(Déterminée) ETAI : Non déterminée

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
5-methyl-3-heptanone oxime	/	ATE	/	/	3500 mg/kg	/	ETAO : 3 500,00 mg/kg(Déterminée) ETAC : Non déterminée ETAI : Non déterminée
7-hydroxycitronellal	oral	LD ₅₀	rat	/	> 6400 mg/kg bodyweight	/	Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
7-hydroxycitronellal	dermal	LD ₅₀	rabbit	/	> 2000 mg/kg bodyweight	/	Animal: rabbit
geraniol	oral	/	/	/	3600 mg/kg	/	/
allyl (3-methylbutoxy)acetate	oral	LD ₅₀	/	/	730 mg/kg	/	calculated value
allyl (3-methylbutoxy)acetate	oral	ATE	/	/	730 mg/kg	/	CLP
cedryl acetate	oral	LD ₅₀	rat	/	44750 mg/kg	/	/
methyl atrarate	oral	LD ₅₀	rat	/	5001 mg/kg	/	/

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methyl atrarate	dermal	LD ₅₀	rat	/	5001 mg/kg	/	/
pin-2(3)-ene	/	/	/	/	500	/	/
p-cymene	/	/	/	/	4750	/	/
p-cymene	/	/	/	/	9.7	/	/
citral	Intraperitoneal	LD ₅₀	rat	/	460 mg/kg	/	/
citral	oral	LD ₅₀	mouse	/	6000 mg/kg	/	/
citral	oral	LD ₅₀	rat	/	4960 mg/kg	/	/
p-mentha-1,4-diene	/	/	/	/	3650	/	/
cedrol	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
cedrol	dermal	LD ₅₀	rat	/	> 5000 mg/kg	/	/
cedrol	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	oral	LD ₅₀	rat	/	3561 mg/kg	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	oral	LD ₅₀	rabbit	/	> 2000 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
estragole (methyl chavicol)	oral	/	/	/	1230 mg/kg	/	/
undecan-4-olide	oral	LD ₅₀	rat	/	18500 mg/kg	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	oral	LD ₅₀	rat	/	4590 mg/kg	/	/
α,α-dimethylphenethyl acetate	oral	LD ₅₀	rat	/	3300 mg/kg	/	/
l-carvone	oral	LD ₅₀	rat	/	1640 mg/kg	/	/
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	oral	LD ₅₀	rat	/	5000 mg/kg	/	/
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	dermal	LD ₅₀	rabbit	/	5000 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
2,4-dimethylcy clohex-3-ene-1-carbaldehyde	oral	LD ₅₀	rat	/	2500 mg/kg	/	/
2,4-dimethylcy clohex-3-ene-1-carbaldehyde	oral	LD ₅₀	rat	/	990 mg/kg	/	/
2,4-dimethylcy clohex-3-ene-1-carbaldehyde	dermal	LD ₅₀	rabbit	/	2500 mg/kg	/	/
Geranyl acetate	oral	LD ₅₀	rat	/	6330 mg/kg	/	/
Geranyl acetate	dermal	LD ₅₀	rabbit	/	> 5460 mg/kg	/	/
coumarin	oral	ATE	/	/	500 mg/kg	/	/
7-methyl-3-methylene-1,6-octadiene	oral	LD ₅₀	rat	/	> 11390 mg/kg bw	/	/
7-methyl-3-methylene-1,6-octadiene	oral	LD ₅₀	mouse	/	> 3380 mg/kg bw	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
7-methyl-3-methylene-1,6-octadiene	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg bw	OECD 402	/
dodecanal	oral	LD ₅₀	rat	/	23 g/kg	/	/
dodecanal	oral	ATE	/	/	23000 mg/kg	/	/
neryl acetate	oral	LD ₅₀	rat	/	5001 mg/kg	/	/
neryl acetate	dermal	LD ₅₀	rabbit	/	5001 mg/kg	/	/
allyl 3-cyclohexyl propionate	oral	LD ₅₀	rat	/	585 mg/kg	/	/
allyl 3-cyclohexyl propionate	dermal	LD ₅₀	rabbit	/	1600 mg/kg	/	/
p-mentha-1,4(8)-diene	/	/	/	/	3775	/	/
beta-Caryophyllene	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
beta-Caryophyllene	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

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Name	Species	Time	Result	Method	Remark
d-limonene	/	/	Irritating.	/	/
2-methyl-4-phenylbutan-2-ol	rabbit	/	Mild irritating.	/	1 %
(Z)-3-hexenyl salicylate	rabbit	24 h	Moderately irritating.	/	500 mg
citral	/	/	Irritating.	/	/
citral	/	/	May cause sensitisation by skin contact.	/	/
α,α -dimethylphenethyl acetate	rabbit	24 h	Moderately irritating.	/	505 mg
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	/	/	Skin irritation : May be harmful in contact with skin. Causes skin irritation.	/	/
dodecanal	human	48 h	Mild irritating.	/	5 mg
dodecanal	rabbit	24 h	Moderately irritating.	/	500 mg

Additional information

Causes skin and eye irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
citral	/	rabbit	/	Irritating.	OECD 405	/

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Name	Exposure route	Species	Time	Result	Method	Remark
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	/	/	/	Eyes irritation : Causes serious eye irritation	/	/

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
citral	dermal	/	/	Sensitizing.	/	/
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	/	/	/	CD54, EC200: 52.47 ug/mL; CV75: 62.3 ug/mL; CD54, result: active; result: active	hCLAT	Urbisch et al. 2015; Record ID: R_14313916
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	/	/	/	Respiratory or Skin sensitization : May cause an allergic skin reaction.	/	/
neryl acetate	dermal	/	/	Causes sensitization .	/	/

Additional information

May cause an allergic skin reaction. Respiratory or skin sensitisation : May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

For components

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Name	Type	Species	Time	Result	Method	Remark
citral	Genotoxicity	/	/	Negative.	/	in vitro
citral	in-vivo mutagenicity	/	/	Negative.	OECD 471	/
citral	Genotoxicity	mouse	/	Studies in vivo have shown it is not genotoxic.	OECD 474	/
2,4-dimethylcyclohex-3-en-1-carbaldehyde	in-vitro mutagenicity	/	/	Mutagenicity in vitro (OECD 471) : Negative test	OECD 471	/

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
7-hydroxycitronellal	oral	NOAEL	mouse	2 to	60 mg/kg bodyweight	NOAEL 60 mg/kg bodyweight	/	Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
citral	oral	NOEL	rat	/	> 100 mg/kg	/	OECD 453	/

(g) Reproductive toxicity

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For components

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
terpineol	/	NOAEL (animal/male, F0/P)	rat	/	250 mg/kg bodyweight	NOAEL (animal/male, F0/P) 250 mg/kg bodyweight	/	Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

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Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
terpineol	/	NOAEL (animal/female, F0/P)	rat	/	> 250 mg/kg bodyweight	NOAEL (animal/female, F0/P) > 250 mg/kg bodyweight	/	Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
citral	Developmental toxicity	NOAEL	rat	/	200 mg/kg bw/day	/	OECD 421	oral
citral	Developmental toxicity	NOAEL	rat	/	423 mg/m ³	/	/	inhalation
citral	Reproductive toxicity	NOAEL	rat	/	> 1000 mg/kg bw/day	/	OECD 421	/

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction. Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

(h) STOT-single exposure

For components

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Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
citral	-	-	/	/	/	/		Symptoms: difficulty breathing, drowsiness, cough, headache, gastrointestinal problems, mucosal irritation, nausea.	/	/

Additional information

STOT SE (single exposure): Not classified. STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

(i) STOT-repeated exposure

For components

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Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
linalyl acetate	dermal	NOAEL	rat	90 d	/	/	250 mg/kg bodyweight	NOAEL 250 mg/kg bodyweight	/	Animal : rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
terpineol	oral	NOAEL	rat	90 d	/	/	250 mg/kg bodyweight	NOAEL 250 mg/kg bodyweight	/	Animal : rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

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Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
7-hydroxycitronellal	oral	NOAEL	rat	90 d	/	/	100 mg/kg bodyweight	NOAEL 100 mg/kg bodyweight	/	Animal : rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
7-hydroxycitronellal	oral	NOAEL	mouse	90 d	/	/	60 mg/kg bodyweight	NOAEL 60 mg/kg bodyweight	/	Animal : mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
7-methyl-3-methylene-1,6-octadiene	oral	LOAEL	rat	90 days	/	/	250 mg/kg bw	/	OECD 408	/
7-methyl-3-methylene-1,6-octadiene	oral	NOAEL	animal /female	90 days	sub-chronic	/	500 mg/kg bw	/	OECD 408	/
7-methyl-3-methylene-1,6-octadiene	oral	NOAEL	animal /male	90 days	sub-chronic	/	250 mg/kg bw	/	OECD 408	/

Additional information

STOT RE (repeated exposure): Not classified. STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified. Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

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11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
linalyl acetate	LC ₅₀	11 mg/L	/	fish	<i>Cyprinus carpio</i>	/	/
linalyl acetate	EC ₅₀	59 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
linalyl acetate	EC ₅₀	13.1 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
d-limonene	LC ₅₀	0.72 mg/L	/	fish	<i>Pimephales promelas</i>	/	/
d-limonene	LC ₅₀	702 mg/L	/	fish	<i>Pimephales promelas</i>	/	/
d-limonene	EC ₅₀	307 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
d-limonene	EC ₅₀	0.51 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
d-limonene	EC ₅₀	0.32 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
d-limonene	EC ₅₀	214 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
linalool	LC ₅₀	27.8 mg/L	/	fish	<i>Oncorhynchus mykiss</i>	/	/
linalool	EC ₅₀	59 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
linalool	EC ₅₀	88.3 mg/L	96 h	algae	<i>Desmodesmus subspicatus</i>	/	/
linalool	EC ₅₀	156.7 mg/L	96 h	algae	<i>Desmodesmus subspicatus</i>	/	/
2-methyl-4-phenylbutan-2-ol	LC ₅₀	69.57 mg/L	/	fish	/	/	/
2-methyl-4-phenylbutan-2-ol	EC ₅₀	> 100 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
(Z)-3-hexenyl salicylate	LC ₅₀	> 0.65 mg/L	/	fish	<i>Oncorhynchus mykiss</i>	/	/
(Z)-3-hexenyl salicylate	EC ₅₀	0.6 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/

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(Z)-3-hexenyl salicylate	EC ₅₀	0.61 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
(Z)-3-hexenyl salicylate	EC ₅₀	0.28 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
terpineol	LC ₅₀	62 - 80 mg/L	/	fish	<i>Danio rerio</i>	/	/
terpineol	EC ₅₀	68 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
terpineol	EC ₅₀	17 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	LC ₅₀	1.49 mg/L	/	fish	<i>Lepomis macrochirus</i>	/	/
5-methyl-3-heptanone oxime	LC ₅₀	51451 mg/L	/	fish	/	/	/
5-methyl-3-heptanone oxime	EC ₅₀	44 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
5-methyl-3-heptanone oxime	EC ₅₀	62 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
7-hydroxycitronellal	LC ₅₀	31.6 mg/L	/	fish	<i>Leuciscus idus</i>	/	/
7-hydroxycitronellal	EC ₅₀	410 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
7-hydroxycitronellal	EC ₅₀	123.32 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
geraniol	LC ₅₀	22 mg/L	/	fish	<i>Danio rerio</i>	/	/
geraniol	EC ₅₀	10.8 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
geraniol	EC ₅₀	13.1 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
allyl (3-methylbutoxy)acetate	LC ₅₀	768 mg/L	/	fish	/	/	/
allyl (3-methylbutoxy)acetate	EC ₅₀	2.06 mg/L	96 h	algae	/	/	/
cedryl acetate	LC ₅₀	15.61 mg/L	/	fish	<i>Danio rerio</i>	/	/
cedryl acetate	EC ₅₀	0.33 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/

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cedryl acetate	EC ₅₀	> 0.31 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
methyl atrarate	LC ₅₀	5.2 mg/L	/	fish	/	/	/
methyl atrarate	EC ₅₀	9.3 mg/L	96 h	crustacea	<i>Daphnia sp.</i>	/	/
methyl atrarate	EC ₅₀	3.3 mg/L	96 h	algae	/	/	/
pin-2(3)-ene	LC ₅₀	303 mg/L	/	fish	<i>Danio rerio</i>	/	/
pin-2(3)-ene	EC ₅₀	475 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
p-cymene	LC ₅₀	48 mg/L	/	fish	/	/	/
p-cymene	EC ₅₀	3.7 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
p-cymene	EC ₅₀	4.03 mg/L	72 h	algae	<i>Scenedesmus capricornutum</i>	/	/
p-cymene	EC ₅₀	2.01 mg/L	72 h	algae	<i>Scenedesmus capricornutum</i>	/	/
p-mentha-1,4-diene	EC ₅₀	10189 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
p-mentha-1,4-diene	EC ₅₀	> 10.82 mg/L	72 h	algae	<i>Scenedesmus capricornutum</i>	/	/

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cedrol	EC ₅₀	1596 mg/L	96 h	algae	/	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	LC ₅₀	5.3 mg/L	/	fish	<i>Oncorhynchus mykiss</i>	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	EC ₅₀	8.3 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	EC ₅₀	28 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	EC ₅₀	14 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
undecan-4-olide	EC ₅₀	5853 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
undecan-4-olide	EC ₅₀	7218 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	LC ₅₀	5.09 mg/L	/	fish	<i>Pimephales promelas</i>	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	LC ₅₀	6.81 mg/L	/	fish	<i>Leuciscus idus</i>	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	EC ₅₀	4.03 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	EC ₅₀	22.15 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	EC ₅₀	21.15 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
α,α -dimethylp henethyl acetate	LC ₅₀	8901 mg/L	/	fish	/	/	/
α,α -dimethylp henethyl acetate	EC ₅₀	15.4 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
α,α -dimethylp henethyl acetate	EC ₅₀	4766 mg/L	96 h	algae	/	/	/
l-carvone	LC ₅₀	6.1 mg/L	/	fish	<i>Oncorhynchus mykiss</i>	/	/
l-carvone	EC ₅₀	38 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
l-carvone	EC ₅₀	19 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
Geranyl acetate	LC ₅₀	68.12 mg/L	/	fish	<i>Leuciscus idus</i>	/	/
Geranyl acetate	EC ₅₀	14.1 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
Geranyl acetate	EC ₅₀	3.72 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
coumarin	LC ₅₀	2.94 mg/L	/	fish	/	/	/
coumarin	LC ₅₀	1324 mg/L	/	fish	/	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
coumarin	EC ₅₀	8012 mg/L	/	crustacea	<i>Daphnia sp.</i>	/	/
coumarin	EC ₅₀	1452 mg/L	96 h	algae	/	/	/
7-methyl-3-methylene-1,6-octadiene	EC ₅₀	1.47 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
7-methyl-3-methylene-1,6-octadiene	EC ₅₀	342 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
7-methyl-3-methylene-1,6-octadiene	EC ₅₀	0.31 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
1-phenylethanol	LC ₅₀	> 100 mg/L	/	fish	<i>Danio rerio</i>	/	/
1-phenylethanol	EC ₅₀	> 200 mg/L	72 h	algae	<i>Chlorella vulgaris</i>	/	/
dodecanal	LC ₅₀	2.6 mg/L	/	fish	<i>Oncorhynchus mykiss</i>	/	/
dodecanal	EC ₅₀	> 0.27 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
dodecanal	EC ₅₀	> 48 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
dodecanal	EC ₅₀	> 0.35 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
allyl 3-cyclohexyl propionate	LC ₅₀	0.13 mg/L	/	fish	<i>Pimephales promelas</i>	/	/
allyl 3-cyclohexyl propionate	EC ₅₀	3.8 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
allyl 3-cyclohexyl propionate	EC ₅₀	3 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
allyl 3-cyclohexyl propionate	EC ₅₀	2.1 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
[1S-(1 α ,3 α ,4 α ,8 α)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene	EC ₅₀	119 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
[1S-(1 α ,3 α ,4 α ,8 α)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene	EC ₅₀	0.28 mg/L	72 h	algae	/	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
p-mentha-1,4(8)-diene	LC ₅₀	805 mg/L	/	fish	<i>Danio rerio</i>	/	/
p-mentha-1,4(8)-diene	EC ₅₀	634 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
p-mentha-1,4(8)-diene	EC ₅₀	11.69 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/
beta-Caryophyllene	EC ₅₀	> 0.17 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
beta-Caryophyllene	EC ₅₀	> 33 mg/L	72 h	algae	<i>Raphidocelis subcapitata</i>	/	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
undecan-4-olide	LOEC	1.83 mg/L	21 D	crustacea	<i>Daphnia magna</i>	/	/
undecan-4-olide	NOEC	138 mg/L	21 D	crustacea	<i>Daphnia magna</i>	/	/
coumarin	NOEC	0.5 mg/L	21 D	/	/	/	/
coumarin	NOEC	191 mg/L	30 D	fish	/	/	/
1-phenylethanol	NOEC	13.28 mg/L	21 D	crustacea	<i>Daphnia magna</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
1-phenylethanol	NOEC	26481 mg/L	28 D	fish	/	/	/

Additional information

Hazardous to the aquatic environment, short-term (acute): Not classified (Based on available data, the classification criteria are not met) Hazardous to the aquatic environment, long-term (chronic): Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For product

Type	Rate	Time	Evaluation	Method	Remark
/		/	not rapidly degradable	/	/

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
linalyl acetate	/		/	not rapidly degradable	/	/
d-limonene	/		/	not rapidly degradable	/	/
linalool	/		/	not rapidly degradable	/	/
2-methyl-4-phenylbutan-2-ol	/		/	not rapidly degradable	/	/
(Z)-3-hexenyl salicylate	/		/	not rapidly degradable	/	/

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Name	Type	Rate	Time	Evaluation	Method	Remark
terpineol	/		/	not rapidly degradable	/	/
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	/		/	not rapidly degradable	/	/
5-methyl-3-heptanone oxime	/		/	not rapidly degradable	/	/
7-hydroxycitronellal	/		/	not rapidly degradable	/	/
geraniol	/		/	not rapidly degradable	/	/
allyl (3-methylbutoxy)acetate	/		/	not rapidly degradable	/	/
cedryl acetate	/		/	not rapidly degradable	/	/
methyl atrarate	/		/	not rapidly degradable	/	/
pin-2(3)-ene	/		/	not rapidly degradable	/	/
p-cymene	/		/	not rapidly degradable	/	/
p-mentha-1,4-diene	/		/	not rapidly degradable	/	/
cedrol	/		/	not rapidly degradable	/	/

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Name	Type	Rate	Time	Evaluation	Method	Remark
α -methyl-1,3-benzodioxole-5-propionaldehyde	/		/	not rapidly degradable	/	/
undecan-4-olide	/		/	not rapidly degradable	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	/		/	not rapidly degradable	/	/
α,α -dimethylphenethyl acetate	/		/	not rapidly degradable	/	/
l-carvone	/		/	not rapidly degradable	/	/
Geranyl acetate	/		/	not rapidly degradable	/	/
coumarin	/		/	not rapidly degradable	/	/
7-methyl-3-methylene-1,6-octadiene	/		/	not rapidly degradable	/	/
1-phenylethanol	/		/	not rapidly degradable	/	/
dodecanal	/		/	not rapidly degradable	/	/
allyl 3-cyclohexylpropionate	/		/	not rapidly degradable	/	/

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Name	Type	Rate	Time	Evaluation	Method	Remark
[1S-(1 α ,3 α ,4 α ,8 α)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene	/		/	not rapidly degradable	/	/
p-mentha-1,4(8)-diene	/		/	not rapidly degradable	/	/
beta-Caryophyllene	/		/	not rapidly degradable	/	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

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12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

For product

No additional information available No additional information available

12.7 Other adverse effects

No additional information available

12.8 Additional information

For product

Toxic to aquatic organisms: may cause long-term adverse effects in the aquatic environment. Do not allow to reach ground water, water courses or sewage system. Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

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No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

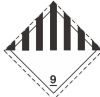
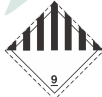
14.1 UN number or ID number

ADR/RID	IMDG	IATA	ADN
UN 3082	UN 3082	UN 3082	UN 3082

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	ADN
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
9	9	9	9
 	 	 	 

14.4 Packing group

ADR/RID	IMDG	IATA	ADN
III	III	III	III

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14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
YES	Marine pollutant	YES	YES

14.6 Special precautions for user

ADR/RID	IMDG	IATA	ADN
Limited quantities: 5 L Special provisions: 274, 335, 375, 601, 650 Packing Instructions: P001, IBC03, LP01, R001 Special packing provisions: PP1 Transport category: 3 Tunnel restriction code: (-) Classification code: M6	Limited quantities: 5 L EmS: F-A, S-F Flash point: 100 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst): Y964 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg): 30, kg, G Packing Instructions (Pkg Inst): 964 Maximum Net Quantity/Package (Max Net Qty/Pkg): 450, L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst): 964 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg): 450, L Special provisions: A97, A158, A197, A215 Excepted quantities: E1 ERG code: 9L	Limited quantities: 5 L

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14.7 Maritime transport in bulk according to IMO instruments

ADR/RID	IMDG	IATA	ADN
/	Goods may not be carried in bulk in bulk containers, containers or vehicles.	/	/

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

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No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet

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OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.