

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

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

#### 1.1 Product identifier

**Product name**

Blackcurrant and Freesia Fragrance Oil

**Product code**

[AL00428]

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

**Relevant identified uses**

Ingredient for industrial use: perfume composition

**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

#### 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)**

Skin Irrit. 2; H315 Causes skin irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

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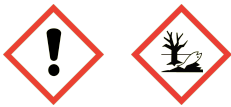
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Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

### 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.  
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.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with national regulation.

#### Contains:

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one  
cis-4-(isopropyl)cyclohexanemethanol  
beta-pinene  
Vetiveria zizanioides, ext., acetylated  
d-limonene  
Orange Oil  
3,7-dimethyl-6-octen-1-ol  
methyl atrarate  
linalool  
2,4-dimethylcyclohex-3-ene-1-carbaldehyde

### 2.3 Other hazards

#### PBT/vPvB

No information.

#### Endocrine disrupting properties

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

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### 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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	54464-57-2 259-174-3 -	C= 9.52%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410; M = 1	/	/
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0 405-040-6 -	C= 2.62%	Eye Irrit. 2; H319	/	/
cis-4-(isopropyl)cyclohexanemethanol	13828-37-0 237-539-8 -	C= 1.19%	Skin Irrit. 2; H315 Skin Sens. 1B; H317	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
beta-pinene	127-91-3 204-872-5 -	C= 0.58%	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	/	/
5-cyclohexadecene-1-one	37609-25-9 253-568-9 -	C= 0.57%	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
(±) trans-3,3-dimethyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol	107898-54-4 411-580-3 603-150-00-0	C= 0.57%	Skin Irrit. 2; H315 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
Vetiveria zizanioides, ext., acetylated	84082-84-8 282-031-1 -	C= 0.48%	Asp. Tox. 1; H304 Skin Sens. 1B; H317 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
d-limonene	5989-27-5 227-813-5 601-096-00-2	C= 0.24%	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	/	/
Orange Oil	8008-57-9 - -	C= 0.24%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	/	/
3,7-dimethyl-6- octen-1-ol	106-22-9 203-375-0 -	C= 0.24%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
methyl atrarate	4707-47-5 225-193-0 -	C= 0.16%	Skin Sens. 1B; H317	/	/
linalool	78-70-6 201-134-4 603-235-00-2	C= 0.15%	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
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 268-264-1 -	C= 0.11%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	/	/

### 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

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

### Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

### 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.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 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

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### 7.1 Precautions for safe handling

#### 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

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No information.

### Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure limit values

No information.

#### 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

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.

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### 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

No information.

#### Organisational measures to prevent exposure

No information.

#### Technical measures to prevent exposure

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

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### 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	Colorless to pale yellow.
Odour	Musky - Green - Fruity - Floral
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 (Water)	soluble
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Relative density	1.0485
Relative vapour/gas density	No information.

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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

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

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### 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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	oral	LD <sub>50</sub>	rat	/	> - 5000 mg/kg	/	/
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	dermal	LD <sub>50</sub>	rat	/	> - 5000 mg/kg	/	/
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	oral	LD <sub>50</sub>	rat	/	> 5000 mg/kg	/	/
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	dermal	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
cis-4-(isopropyl)cyclohexanemethanol	oral	LD <sub>50</sub>	rat	/	> 10000 mg/kg	/	/
(±) trans-3,3-dimethyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol	oral	LD <sub>50</sub>	/	/	> 2000 mg/kg	/	/
(±) trans-3,3-dimethyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol	dermal	LD <sub>50</sub>	/	/	> 2000 mg/kg	/	/
(±) trans-3,3-dimethyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol	inhalation	LC <sub>50</sub>	/	/	> 20 mg/L	/	/
Orange Oil	oral	LD <sub>0</sub>	rat (male)	/	> 5000 mg/kg	OECD 401	ECHA
Orange Oil	dermal	LD <sub>0</sub>	Rabbit (female)	/	> 5000 mg/kg	OECD 402	ECHA

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
3,7-dimethyl-6-octen-1-ol	/	ATE	/	/	3450 mg/kg	/	ETAO : 3450,00 mg/kg(Déterminée) ETAC : 2650,00 mg/kg(Déterminée) ETAI : Non déterminée
3,7-dimethyl-6-octen-1-ol	/	ATE	/	/	2650 mg/kg	/	ETAO : 3450,00 mg/kg(Déterminée) ETAC : 2650,00 mg/kg(Déterminée) ETAI : Non déterminée
methyl atrarate	oral	LD <sub>50</sub>	rat	/	5001 mg/kg	/	/
methyl atrarate	dermal	LD <sub>50</sub>	rat	/	5001 mg/kg	/	/
linalool	/	ATE	/	/	2790 mg/kg	/	Linalool ETAO : 2790,00 mg/kg(Déterminée) ETAC : Non déterminée ETAI : Non déterminée

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
2,4-dimethylcy clohex-3-ene-1-carbaldehyde	oral	LD <sub>50</sub>	rat	/	2500 mg/kg	/	/
2,4-dimethylcy clohex-3-ene-1-carbaldehyde	oral	LD <sub>50</sub>	rat	/	990 mg/kg	/	/
2,4-dimethylcy clohex-3-ene-1-carbaldehyde	dermal	LD <sub>50</sub>	rabbit	/	2500 mg/kg	/	/

### Additional information

The product is not classified as acutely toxic.

### (b) Skin corrosion/irritation

#### For components

Name	Species	Time	Result	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	human	/	Irritating.	OECD 439	/
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	rabbit	/	Non-irritant.	/	/
d-limonene	/	/	Irritating.	/	/

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Name	Species	Time	Result	Method	Remark
Orange Oil	/	/	Irritating.	OECD 404	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	/	/	Skin irritation : May be harmful in contact with skin. Causes skin irritation.	/	/

### Additional information

Causes skin irritation.

### (c) Serious eye damage/irritation

#### For components

Name	Exposure route	Species	Time	Result	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	/	/	/	Danger of serious eye injury.	/	/
Orange Oil	/	/	/	Non-irritant.	OECD 405	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	/	/	/	Eyes irritation : Causes serious eye irritation	/	/

### (d) Respiratory or skin sensitisation

#### For product

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Exposure route	Species	Time	Result	Method	Remark
/	/	/	The product is classified Skin Sens. 1B according to the referenced regulation. May cause an allergic skin reaction.	/	/

### For components

Name	Exposure route	Species	Time	Result	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	dermal	/	/	May cause an allergic skin reaction.	/	/
Orange Oil	dermal	/	/	Causes sensitization	OECD 429	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	/	/	/	Respiratory or Skin sensitization : May cause an allergic skin reaction.	/	/

### Additional information

It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction. May cause an allergic skin reaction. Skin sensitisation: The product is classified Skin Sens. 1B according to the referenced regulation. May cause an allergic skin reaction. Substances: Not available Sensitisation to the respiratory tract: The product is not classified. Substances: Not available

### (e) (Germ cell) mutagenicity

### For components

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Name	Type	Species	Time	Result	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	in-vitro mutagenicity	Bacteria	/	Negative with metabolic activation, negative without metabolic activation.	Ames test	/
Orange Oil	/	/	/	Not mutagenic.	OECD 471	/
2,4-dimethylcyclohex-3-en-1-carbaldehyde	in-vitro mutagenicity	/	/	Mutagenicity in vitro (OECD 471) : Negative test	OECD 471	/

### (f) Carcinogenicity

No information.

### (g) Reproductive toxicity

No information.

### Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction. Carcinogenicity: The product is not classified. Substances: Not available Reproductive toxicity: The product is not classified. Substances: Not available Germ cell mutagenicity: The product is not classified. Substances: Not available

### (h) STOT-single exposure

No information.

### Additional information

STOT SE (single exposure): Not classified. Specific target organ toxicity (repeated exposure): The product is not classified. Substances: Not available

### (i) STOT-repeated exposure

No information.

### Additional information

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STOT RE (repeated exposure): Not classified. Specific target organ toxicity (single exposure): The product is not classified. Substances: Not available

### (j) Aspiration hazard

No information.

### Additional information

Aspiration hazard: Not classified. Additional information: Not available

### Symptoms related to the physical, chemical and toxicological characteristics

No information.

### Interactive effects

No information.

### 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

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LC <sub>50</sub>	1.3 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	OECD 203	/
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	ErC <sub>50</sub>	> 2.6 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	/
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC <sub>50</sub>	1.38 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	LC <sub>50</sub>	354 mg/L	96 h	fish	/	OECD 203	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	EC <sub>50</sub>	320 mg/L	48 h	crustacea	<i>Daphnia pulex</i>	OECD 203	/
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	EC <sub>50</sub>	94 mg/L	72 h	algae	/	OECD 203	/
beta-pinene	/	0.826 mg/L	48 h	algae/aquatic plants	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
beta-pinene	/	0.502 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD 203	/
beta-pinene	/	326 mg/L	3 h	microorganisms	Activated sludge	OECD 209	/
beta-pinene	/	1.248 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
(±) trans-3,3-dimethyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol	LC <sub>50</sub>	0.1 - 1 mg/L	96 h	fish	/	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
(±) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	EC <sub>50</sub>	0.1 - 1 mg/L	/	crustacea	/	/	/
(±) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	EC <sub>50</sub>	0.1 - 1 mg/L	/	algae	/	/	/
Orange Oil	EL <sub>50</sub>	1.1 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	ECHA
Orange Oil	EL <sub>50</sub>	150 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	OECD 201	ECHA
Orange Oil	LL50	5.65 mg/L	96 h	fish	<i>Danio rerio</i>	OECD 203	ECHA

### Chronic (long-term) toxicity

For components

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	NOEC	0.16 mg/L	30 days	fish	<i>Danio rerio</i>	OECD 210	/
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	NOEC	0.028 mg/L	21 days	crustacea	<i>Daphnia magna</i>	OECD 211 OECD 211	/

### Additional information

Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

#### Abiotic degradation, physical- and photo-chemical elimination

No information.

#### Biodegradation

##### For components

Name	Type	Rate	Time	Evaluation	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	biodegradability	11 % O <sub>2</sub>	28 days	/	OECD 301 C	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

Name	Type	Rate	Time	Evaluation	Method	Remark
beta-pinene	biodegradati on	76 %	28 days	readily biodegrada ble	OECD 301 D	Oxygen consumption

### 12.3 Bioaccumulative potential

#### Partition coefficient n-octanol/water (log value)

##### For components

Name	Value	Temperature °C	pH	Concentration	Method
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	5.65	/	/	/	/
beta-pinene	26610	/	/	/	OECD 107
methyl atrarate	2.6	/	/	/	/

#### Bioconcentration factor (BCF)

##### For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	BCF	/	/	/	/	/	/
beta-pinene	BCF	/	1125	/	L/kg	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

##### For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Soil	log KOC	13182.56	/	/	/
beta-pinene	Soil	log KOC	1020	/	/	/

#### Additional information

The product has not been tested.

### 12.5 Results of PBT and vPvB assessment

No evaluation.

### 12.6 Endocrine disrupting properties

#### For product

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB. According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

### 12.7 Other adverse effects

not available

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

### 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. Additional ecotoxicological information Not available

#### For components

**1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one**

M factor (chronic toxicity) = 1.

#### beta-pinene

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

## 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

No information.

##### Other disposal recommendations

No information.

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Blackcurrant and Freesia Fragrance Oil**

**Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0**

### 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

#### 14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
YES	Marine pollutant	YES	YES

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: **Blackcurrant and Freesia Fragrance Oil**

Creation date: **27.04.2026**, Revision: **27.04.2026**, Version: **1.0**

### 14.6 Special precautions for user

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

### 14.7 Maritime transport in bulk according to IMO instruments

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Blackcurrant and Freesia Fragrance Oil**

**Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0**

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**

No information.

**Abbreviations and acronyms**

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

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  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackcurrant and Freesia Fragrance Oil

Creation date: 27.04.2026, Revision: 27.04.2026, Version: 1.0

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.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
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.