

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

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

#### 1.1 Product identifier

**Product name**

Black Orchid Fragrance Oil

**Product code**

[AL00407]

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

**Relevant identified uses**

Perfumes, fragrances.

**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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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:

P264 Wash ... thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
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.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
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  
hexyl salicylate  
3,7-dimethyl-3-octanol  
citral  
eugenol  
cinnamaldehyde  
coumarin  
3-(p-methoxyphenyl)-2-methylpropionaldehyde  
d-limonene  
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one  
methyl atrarate

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$\alpha$ -methyl-1,3-benzodioxole-5-propionaldehyde  
 caryophyllene  
 2-(2,2,7,7-tetramethyltricyclo[6.2.1.0((1,6)]undec-5(4)-en-5-yl)propan-1-ol  
 3-(4-tert-butylphenyl)propionaldehyde  
 cinnamaldehyde  
 isoeugenol

### 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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	54464-57-2 915-730-3 -	4,62%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410; M = 1	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
hexyl salicylate	6259-76-3 228-408-6 -	3,85%	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410; M = 1	/	/
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol ((2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol (CAS 106185-75-5))	28219-61-6 701-122-3 -	2,69%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	/	/
benzyl acetate	140-11-4 205-399-7 -	2,34%	Aquatic Chronic 3; H412	/	/
3,7-dimethyl-3-octanol	78-69-3 201-133-9 -	2,31%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
vanillin	121-33-5 204-465-2 -	1,54%	Eye Irrit. 2; H319	/	/
citral	5392-40-5 226-394-6 -	1,54%	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	dermal: ATE = 2000 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
patchouli alcohol	5986-55-0 227-807-2 -	1,23%	Aquatic Chronic 2; H411	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6 201-224-3 -	1,15%	Aquatic Chronic 2; H411	/	/
Ethyl Vanillin	121-32-4 204-464-7 -	1,15%	Eye Irrit. 2; H319	/	/
eugenol	97-53-0 202-589-1 -	0,87%	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
cinnamaldehyde	104-54-1 203-212-3 -	0,80%	Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	oral: ATE = 2000 mg/kg bw	/
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5 233-221-8 -	0,77%	Aquatic Chronic 2; H411	/	/
coumarin	91-64-5 202-086-7 -	0,77%	Acute Tox. 4; H302 Skin Sens. 1B; 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
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0 405-040-6 603-101-00-3	0,77%	Eye Irrit. 2; H319	/	/
azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, (1S,4S,7R)-	3691-12-1 - -	0,69%	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319	/	/
3-(p-methoxyphenyl)-2-methylpropion aldehyde	5462-06-6 226-749-5 -	0,46%	Skin Sens. 1B; H317	/	/
d-limonene	5989-27-5 227-813-5 601-096-00-2	0,37%	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	/	/
methyl anthranilate	134-20-3 205-132-4 -	0,33%	Eye Irrit. 2; H319	/	/

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1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9 251-649-3 -	0,31%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	oral: ATE = 2900 mg/kg bw	/
2-phenylethanol	60-12-8 200-456-2 -	0,26%	Acute Tox. 4; H302 Eye Irrit. 2; H319	/	/
methyl atrarate	4707-47-5 225-193-0 -	0,23%	Skin Sens. 1B; H317	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6 -	0,23%	Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 2; H411	/	/
caryophyllene	87-44-5 201-746-1 -	0,20%	Asp. Tox. 1; H304 Skin Sens. 1B; H317	/	/
2-(2,2,7,7-tetramethyltricyclo[6.2.1.0((1,6))undec-5(4)-en-5-yl)propan-1-ol	929625-08-1 482-030-8 -	0,15%	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
3-(4-tert-butylphenyl)propionaldehyde	18127-01-0 242-016-2 -	0,15%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Chronic 3; H412	/	/
7-methyl-2H-benzo-1,5-dioxepin-3(4H)-one	28940-11-6 249-320-4 -	0,15%	Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H336	/	/
linalool	78-70-6 201-134-4 603-235-00-2	0,09%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
cinnamaldehyde	104-55-2 203-213-9 606-155-00-6	0,09%	Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	Skin Sens. 1A; H317; C ≥ 0.01%	/
vetiverol	68129-81-7 268-578-9 -	0,08%	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
cineole	470-82-6 207-431-5 -	0,04%	Flam. Liq. 3; H226 Skin Sens. 1B; H317	/	/
7- hydroxycitronel lal	107-75-5 203-518-7 -	0,04%	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
beta-pinene	127-91-3 204-872-5 -	0,03%	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	/	/
pin-2(3)-ene	80-56-8 201-291-9 -	0,03%	Flam. Liq. 3; H226 Acute Tox. 4; H302 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	oral: ATE = 500 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
isoeugenol	97-54-1 202-590-7 -	0,022%	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335	Skin Sens. 1; H317; C ≥ 0.01%	/
Gum benzoin, Siam	9000-72-0 232-556-7 -	0,02%	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
alpha- amylcinnamic aldehyde (aca) (2E)-3-phenyl- 2-pentyl-prop- 2-enal (CAS Europe 78605- 96-6/ CAS Non Europe countries 122- 40-7))	122-40-7 800-696-3 -	0,02%	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	/	/
isoamyl salicylate (Reaction mass of isopentyl salicylate and 2 -methylbutyl salicylate)	87-20-7 904-908-6 -	0,02%	Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 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
geraniol	106-24-1 203-377-1 -	0,02%	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318	oral: ATE = 3600 mg/kg bw	/
benzyl salicylate	118-58-1 204-262-9 607-754-00-5	0,02%	Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	/	/
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	/	/
(E)-1-(2,6,6- trimethyl-2- cyclohexen-1- yl)-2-buten-1- one	24720-09-0 246-430-4 -	0,02%	Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	oral: ATE = 1670 mg/kg bw	/
Geranyl acetate	105-87-3 203-341-5 -	0,02%	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
2(3H)- Naphthalenone , 4,4a,5,6,7,8- hexahydro- 4,4a-dimethyl- 6-(1- methylethylidene)-, (4R,4aS)-	15764-04-2 239-855-1 -	0,01%	Skin Sens. 1B; H317	/	/
nerol	106-25-2 203-378-7 -	0,01%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/

### SECTION 4: FIRST AID MEASURES

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### 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.

#### 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.

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### 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

### 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.

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### 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

#### 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

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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.

#### 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.

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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.

#### 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

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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.

## 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 light yellow
Odour	Oriental, balsamic - Floral-Woody

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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.
Vapour pressure	No information.
Density	0.9445 — 0.9645 g/cm <sup>3</sup> at 20 °C
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.

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### 10.1 Reactivity

Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids. For use in alcoholic solution it is preferable to use water with a slightly acid pH value (6-6,5).

### 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

Avoid temperatures near or above the flash point. Do not heat closed containers.

### 10.5 Incompatible materials

Keep away any oxidizing agent or highly alkaline or acidic material.

### 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

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

#### (a) Acute toxicity

#### For components

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**

**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

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	/	/
hexyl salicylate	oral	LD <sub>50</sub>	rat	/	> 5000 mg/kg bw	/	/
hexyl salicylate	dermal	LD <sub>50</sub>	rabbit	/	> 5000 mg/kg bw	/	/
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol ((2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol (CAS 106185-75-5))	oral	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol ((2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol (CAS 106185-75-5))	dermal	LD <sub>50</sub>	rat	/	> 5000 mg/kg	/	/
benzyl acetate	/	/	/	/	2490 mg/kg	/	/
3,7-dimethyl-3-octanol	oral	LD <sub>50</sub>	rat	/	5000 mg/kg	/	/
3,7-dimethyl-3-octanol	dermal	LD <sub>50</sub>	rabbit	/	5000 mg/kg	/	/
3,7-dimethyl-3-octanol	inhalation	LC <sub>50</sub>	/	/	30000 mg/L	/	/
vanillin	dermal	LD <sub>50</sub>	rabbit	/	5000 mg/kg	/	/
vanillin	oral	LD <sub>50</sub>	guinea pig	/	1400 mg/kg	/	/
vanillin	oral	LD <sub>50</sub>	mouse	/	3925 mg/kg	/	/
vanillin	oral	LD <sub>50</sub>	rat	/	1580 mg/kg	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: **Black Orchid Fragrance Oil**

Creation date: **21.04.2026**, Revision: **21.04.2026**, Version: **2.0**

Name	Exposure route	Type	Species	Time	Value	Method	Remark
citral	Intraperitoneal	LD <sub>50</sub>	rat	/	460 mg/kg	/	/
citral	oral	LD <sub>50</sub>	mouse	/	6000 mg/kg	/	/
citral	oral	LD <sub>50</sub>	rat	/	4960 mg/kg	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	oral	LD <sub>50</sub>	rat	/	4590 mg/kg	/	/
Ethyl Vanillin	oral	LD <sub>50</sub>	rat	/	> 3160 mg/kg bw	OECD 401	/
Ethyl Vanillin	dermal	LD <sub>50</sub>	rat	/	> 2000 mg/kg bw	OECD 402	/
eugenol	oral	/	/	/	2500 mg/kg	/	/
cinnamaldehyde	oral	/	/	/	2000 mg/kg	/	/
α,α-dimethylphenethyl butyrate	oral	LD <sub>50</sub>	rat	/	5000 mg/kg	/	/
α,α-dimethylphenethyl butyrate	dermal	LD <sub>50</sub>	rabbit	/	5000 mg/kg	/	/
coumarin	oral	ATE	/	/	500 mg/kg	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**

**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

Name	Exposure route	Type	Species	Time	Value	Method	Remark
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	/	/
3-(p-methoxyphenyl)-2-methylpropionaldehyde	dermal	LD <sub>50</sub>	rabbit	/	> 5 g/kg	/	/
3-(p-methoxyphenyl)-2-methylpropionaldehyde	oral	ATE	/	/	2500 mg/kg	/	/
methyl anthranilate	oral	/	/	/	2780 mg/kg	/	/
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	oral	LD <sub>50</sub>	/	/	2900 mg/kg bw	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**

**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

Name	Exposure route	Type	Species	Time	Value	Method	Remark
methyl atrarate	oral	LD <sub>50</sub>	rat	/	5001 mg/kg	/	/
methyl atrarate	dermal	LD <sub>50</sub>	rat	/	5001 mg/kg	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	oral	LD <sub>50</sub>	rat	/	3561 mg/kg	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	oral	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg	/	/
caryophyllene	oral	LD <sub>50</sub>	rat	/	> 5000 mg/kg	/	/
caryophyllene	dermal	LD <sub>50</sub>	rabbit	/	> 5000 mg/kg	/	/
3-(4-tert-butylphenyl)propionaldehyde	oral	LC <sub>50</sub>	rat	/	2700 mg/kg	/	/
3-(4-tert-butylphenyl)propionaldehyde	dermal	LD <sub>50</sub>	rabbit	/	5000 mg/kg	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
linalool	/	ATE	/	/	2790 mg/kg	/	Linalool ETAO : 2790,00 mg/kg(Déterminée) ETAC : Non déterminée ETAI : Non déterminée
cinnamaldéhyde	oral	LD <sub>50</sub>	rat	/	2221 mg/kg	/	/
cinnamaldéhyde	dermal	LD <sub>50</sub>	rabbit	/	1261 mg/kg	/	/
cinnamaldéhyde	inhalation	LC <sub>50</sub>	rat	/	68.9 mg/kg	/	/
cineole	oral	/	/	/	2479.97 mg/kg	/	/
7-hydroxycitronellal	dermal	LD <sub>50</sub>	rabbit	/	2000 mg/kg	/	/
7-hydroxycitronellal	oral	LD <sub>50</sub>	rat	/	6800 mg/kg	/	/
pin-2(3)-ène	/	ATE	/	/	500 mg/kg	/	alpha-Pinene ETAO : 500,00 mg/kg(Estimée) ETAC : Non déterminée ETAI : Non déterminée

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**

**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

Name	Exposure route	Type	Species	Time	Value	Method	Remark
isoeugenol	oral	LD <sub>50</sub>	rat	/	1500 mg/kg	/	/
isoeugenol	dermal	LD <sub>50</sub>	rat	/	1100 mg/kg	/	/
isoeugenol	inhalation	LC <sub>50</sub>	/	/	> 20 mg/L	/	/
alpha-amylcinnamealdehyde (aca) ((2E)-3-phenyl-2-pentyl-prop-2-enal (CAS Europe 78605-96-6/ CAS Non Europe countries 122-40-7))	dermal	LD <sub>50</sub>	rat	/	3730 mg/kg	/	/
isoamyl salicylate (Reaction mass of isopentyl salicylate and 2-methylbutyl salicylate)	oral	LD <sub>50</sub>	rat	/	3300 mg/kg	/	/
geraniol	oral	/	/	/	3600 mg/kg	/	/
benzyl salicylate	oral	LD <sub>50</sub>	rat	/	> 3000 mg/kg	/	/
benzyl salicylate	dermal	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Exposure route	Type	Species	Time	Value	Method	Remark
p-mentha-1,4(8)-diene	/	ATE	/	/	3775 mg/kg	/	Terpinolene ETAO : 3 775,00 mg/kg(Déterminée) ETAC : Non déterminée ETAI : Non déterminée
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	oral	LD <sub>50</sub>	rat	/	1500 mg/kg	/	/
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	dermal	LD <sub>50</sub>	rat	/	4100 mg/kg	/	/
Geranyl acetate	oral	LD <sub>50</sub>	rat	/	6330 mg/kg	/	/
Geranyl acetate	dermal	LD <sub>50</sub>	rabbit	/	> 5460 mg/kg	/	/
nerol	oral	LD <sub>50</sub>	rat	/	4500 mg/kg	/	/
nerol	dermal	LD <sub>50</sub>	rabbit	/	5001 mg/kg	/	/

### Additional information

The product is not classified as acutely toxic.

### (b) Skin corrosion/irritation

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

### 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	/
citral	/	/	Irritating.	/	/
citral	/	/	May cause sensitisation by skin contact.	/	/
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	rabbit	/	Non-irritant.	/	/
d-limonene	/	/	Irritating.	/	/
cinnamaldehyde	/	/	Irritating to skin.	OECD 404	/
alpha-amylcinnamic aldehyde (aca) ((2E)-3-phenyl-2-pentyl-prop-2-enal (CAS Europe 78605-96-6/ CAS Non Europe countries 122-40-7))	guinea pig	336 h	Mild irritating.	/	5%

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**

**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

Name	Species	Time	Result	Method	Remark
alpha-amylcinnamic aldehyde (aca) ((2E)-3-phenyl-2-pentyl-prop-2-enal (CAS Europe 78605-96-6/ CAS Non Europe countries 122-40-7))	guinea pig	24 h	Moderately irritating.	/	100 mg
alpha-amylcinnamic aldehyde (aca) ((2E)-3-phenyl-2-pentyl-prop-2-enal (CAS Europe 78605-96-6/ CAS Non Europe countries 122-40-7))	rabbit	24 h	Severe irritation.	/	100 mg
nerol	/	/	Irritating.	OECD 404	/

### Additional information

Causes skin and eye 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.	/	/
citral	/	rabbit	/	Irritating.	OECD 405	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Exposure route	Species	Time	Result	Method	Remark
cinnamaldehyde	/	/	/	Causes serious eye irritation.	OECD 405 Acute Eye Irritation/Corrosion	/
benzyl salicylate	/	/	/	Completely reversible within 7 days.	OECD 437	/
nerol	/	/	/	Irritating.	OECD 405 Acute Eye Irritation/Corrosion	/

### (d) Respiratory or skin sensitisation

#### 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.	/	/
citral	dermal	/	/	Sensitizing.	/	/
cinnamaldehyde	dermal	/	/	Causes sensitization.	/	/
benzyl salicylate	/	mouse	/	Sensitising.	OECD 429	/
nerol	dermal	/	/	Causes sensitization.	OECD 429	/

#### Additional information

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

May cause an allergic skin reaction.

### (e) (Germ cell) mutagenicity

#### For components

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	/
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	/

### (f) Carcinogenicity

#### For components

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
citral	oral	NOEL	rat	/	> 100 mg/kg	/	OECD 453	/

### (g) Reproductive toxicity

#### For components

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
citral	Developmental toxicity	NOAEL	rat	/	200 mg/kg bw/day	/	OECD 421	oral
citral	Developmental toxicity	NOAEL	rat	/	423 mg/m <sup>3</sup>	/	/	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.

### (h) STOT-single exposure

#### For components

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

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

### Additional information

STOT SE (single exposure): Not classified.

### (i) STOT-repeated exposure

#### For components

Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
Ethyl Vanillin	oral	NOAEL	rat	90 days	/	/	100 mg/kg bw	/	/	/

### Additional information

STOT RE (repeated exposure): Not classified.

### (j) Aspiration hazard

No information.

### Additional information

Aspiration hazard: Not classified.

### 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

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

### Acute (short-term) toxicity

#### For components

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	/
hexyl salicylate	LC <sub>50</sub>	1.34 mg/L	96 h	fish	<i>Danio rerio</i>	/	/
hexyl salicylate	EC <sub>50</sub> (static)	0.543 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
hexyl salicylate	ECr <sub>50</sub>	0.61 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hexyl salicylate	NOEC	0.15 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
3,7-dimethyl-3-octanol	LC <sub>50</sub>	8.9 mg/L	96 h	fish	<i>Danio rerio</i>	/	/
3,7-dimethyl-3-octanol	EC <sub>50</sub>	287.17 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
vanillin	LC <sub>50</sub>	> 57 mg/L	96 h	fish	/	/	/
vanillin	EC <sub>50</sub>	36.79 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
vanillin	EC <sub>50</sub>	120 mg/L	72 h	algae	/	/	/
vanillin	NOEC	> 2 mg/L	72 h	crustacea	/	/	/
citral	LC <sub>50</sub>	19 mg/L	96 h	fish	/	/	/
citral	EC <sub>50</sub>	7 mg/L	48 h	crustacea	/	/	/
citral	EC <sub>50</sub>	16 mg/L	72 h	algae	/	/	/
Ethyl Vanillin	LC <sub>50</sub>	87.6 mg/L	/	fish	<i>Pimephales promelas</i>	/	/
Ethyl Vanillin	EC <sub>50</sub>	36.79 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
Ethyl Vanillin	EC <sub>50</sub>	120 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**

**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	LC <sub>50</sub>	354 mg/L	96 h	fish	/	OECD 203	/
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	/
2-phenylethanol	EC <sub>50</sub>	330 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
2-phenylethanol	EC <sub>50</sub>	490 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	LC <sub>50</sub>	5.3 mg/L	96 h	fish	/	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**

**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
α-methyl-1,3-benzodioxole-5-propionaldehyde	NOEC	2.4 mg/L	96 h	fish	/	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	EC <sub>50</sub>	17 mg/L	24 h	<i>Daphnia</i>	/	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	EC <sub>50</sub>	8.3 mg/L	48 h	<i>Daphnia</i>	/	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	EC <sub>50</sub>	28 mg/L	72 h	algae	/	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	NOEC	6.25 mg/L	72 h	algae	/	/	/
cinnamalddehyde	/	6.87 mg/L	72 h	algae/aquatic plants	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
cinnamalddehyde	/	2.35 mg/L	96 h	fish	<i>Danio rerio</i>	/	/
cinnamalddehyde	/	71 mg/L	3 h	microorganisms	Activated sludge	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
cinnamald ehyde	/	3.21 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
cineole	LC <sub>50</sub>	57 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	ECHA
cineole	ErC <sub>50</sub>	> 100 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	ECHA
cineole	EC <sub>50</sub>	> 100 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	ECHA
cineole	EC <sub>50</sub>	> 100 mg/L	3 h	bacteria	Activated sludge	OECD 209	ECHA
7-hydroxycitronellal	LC <sub>50</sub>	31.6 mg/L	96 h	fish	/	/	/
7-hydroxycitronellal	EC <sub>50</sub>	410 mg/L	48 h	crustacea	/	/	/
7-hydroxycitronellal	EC <sub>50</sub>	123.32 mg/L	72 h	algae	/	/	/
7-hydroxycitronellal	NOEC	42.36 mg/L	72 h	algae	/	/	/
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	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Black Orchid Fragrance Oil

Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
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	/

### Chronic (long-term) toxicity

#### For components

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	/
citral	NOEC	68 mg/L	/	/	/	OECD 209	0,02083 days
citral	NOEC	3 mg/L	3 days	algae	<i>Desmodesmus subspicatus</i>	DIN 38412 L 9	/
Ethyl Vanillin	NOEC	5.9 mg/L	21 days	crustacea	<i>Daphnia magna</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
Ethyl Vanillin	LOEC	10 mg/L	21 days	crustacea	<i>Daphnia magna</i>	/	/
cinnamald ehyde	/	37.24 mg/L	3 days	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
cinnamald ehyde	/	15.159 mg/L	28 days	fish	/	/	/
cinnamald ehyde	/	0.402 mg/L	21 day	crustacea	<i>Daphnia magna</i>	OECD 211	/

### Additional information

This information is not available. For all substances listed in paragraph 3 and EH classified A1 and / or EH C1, M FACTOR are equal to 1.

### 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	/
hexyl salicylate	biodegradability	/	/	readily biodegradable	/	/

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Name	Type	Rate	Time	Evaluation	Method	Remark
3,7-dimethyl-3-octanol	oxygen depletion	60 - 70 %	28 days	/	/	/
vanillin	solubility in water	9 g/L	/	/	/	/
citral	aerobic	90 %	28 days	readily biodegradable	EU Method C.4-D	/
2-phenylethanol	biodegradation	87 %	14 days	/	/	100 mg/l
cinnamaldehyde	biodegradability	50 %	15 days	/	/	/
cineole	biodegradability	82 %	28 days	readily biodegradable	OECD 301 F	ECHA
7-hydroxycitronellal	solubility in water	35 g/L	/	/	/	/
beta-pinene	biodegradation	76 %	28 days	readily biodegradable	OECD 301 D	Oxygen consumption

### 12.3 Bioaccumulative potential

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

**For components**

## SAFETY DATA SHEET

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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	/	/	/	/
hexyl salicylate	5.5	/	/	/	OECD 117 HPLC
3,7-dimethyl-3-octanol	3.3	/	/	/	/
citral	2.76	/	/	/	/
2-phenylethanol	1.36	/	/	/	/
methyl atrarate	2.6	/	/	/	/
cinnamaldehyde	2.107	/	/	/	OECD 117
cineole	3.4	/	/	/	/
7-hydroxycitronellal	1.68	/	/	/	/
beta-pinene	26610	/	/	/	OECD 107

**Bioconcentration factor (BCF)**

**For components**

## SAFETY DATA SHEET

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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	/	/	/	/	/	/
citral	BCF	/	89.72	/	/	/	/
2-phenylethanol	BCF	/	6	/	Low bioaccumulation potential.	/	/
cinnamaldehyde	BCF	/	8	/	/	/	/
cineole	BCF	/	125	/	/	/	QSAR
beta-pinene	BCF	/	1125	/	L/kg	/	/

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

#### For components

Name	Value	Temperature °C	Concentration	Method	Remark
2-phenylethanol	0.03807 N/m	25	/	/	/

#### Adsorption/Desorption

#### For components

## SAFETY DATA SHEET

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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	/	/	/
citral	Soil	/	147.7	/	/	Koc
cinnamaldehyde	Soil	log KOC	90.78	/	OECD 121	/
beta-pinene	Soil	log KOC	1020	/	/	/

### Additional information

This information is not available.

### 12.5 Results of PBT and vPvB assessment

No evaluation.

### 12.6 Endocrine disrupting properties

#### For product

This information is not available.

### 12.7 Other adverse effects

Unknown. 12.7. Water hazard class WGK : 2

### 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. On the available eco-toxicological data base, this product is classified in compliance with the European regulations related to the classification for Environment of preparations.

#### For components

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**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.

### **citral**

Low bioaccumulation potential.

### **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.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number or ID number

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name: Black Orchid Fragrance Oil**









**Creation date: 21.04.2026, Revision: 21.04.2026, Version: 2.0**

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

### 14.6 Special precautions for user

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: **Black Orchid Fragrance Oil**

Creation date: **21.04.2026**, Revision: **21.04.2026**, Version: **2.0**

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

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

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

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### 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**

1.1 Product identifier

**Key literature references and sources for data**

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

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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  
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

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ACCORDING TO REGULATION (EC) 1907/2006

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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.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

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.