

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackberry and Blueberry Fragrance Oil

Creation date: 22.04.2026, Revision: 22.04.2026, Version: 1.0

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

1.1 Product identifier

Product name

Blackberry and Blueberry Fragrance Oil

Product code

[AL00409]

UFI:

H810-X01F-F00R-YYAU

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

Relevant identified uses

Fragrance composition (perfume)

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)

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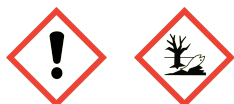
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Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Irrit. 2; H319 Causes serious eye irritation.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

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:

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.
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:

geraniol
linalool
d-limonene
linalyl acetate
methyl cinnamate
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
4-hydroxy-2,5-dimethyl-3(2H)-furanone
eugenol
2,4-dimethylcyclohex-3-ene-1-carbaldehyde

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beta-pinene
 trans-hex-2-enal
 methyl 2-nonynoate

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
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9 603-212-00-7	C ≤ 6.5%	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
geraniol	106-24-1 203-377-1 -	C ≤ 4.93%	Skin Irrit. 2; H315 Skin Sens. 1; 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
alpha-ionone	127-41-3 204-841-6 -	C ≤ 3.02%	Aquatic Chronic 2; H411	/	/
linalool	78-70-6 201-134-4 603-235-00-2	C ≤ 3.0%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6 201-224-3 -	C ≤ 3.0%	Aquatic Chronic 2; H411	/	/
5-methyl-3-heptanone oxime	22457-23-4 245-010-8 -	C ≤ 2.0%	Aquatic Chronic 3; H412	/	/
vanillin	121-33-5 204-465-2 -	C ≤ 2.0%	Eye Irrit. 2; H319	/	/
Ethyl Vanillin	121-32-4 204-464-7 -	C ≤ 2.0%	Eye Irrit. 2; H319	/	/
2-[8-isopropyl-6-methylbicyclo[2.2.2]oct-5-en-2-yl]-1,3-dioxolane	68901-32-6 272-669-9 -	C ≤ 2.0%	Skin Irrit. 2; H315 Aquatic Chronic 2; H411	/	/
2-ethyl-3-hydroxy-4-pyrone	4940-11-8 225-582-5 -	C ≤ 2.0%	Acute Tox. 4; H302	/	/

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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 ≤ 1.07%	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	/	/
linalyl acetate	115-95-7 204-116-4 -	C ≤ 1.0%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
allyl hexanoate	123-68-2 204-642-4 -	C ≤ 1.0%	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 3; H412	/	/
cis-3-hexenol	928-96-1 213-192-8 -	C ≤ 1.0%	Flam. Liq. 3; H226 Eye Irrit. 2; H319	/	/
methyl cinnamate	103-26-4 203-093-8 -	C ≤ 1.0%	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
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5 204-846-3 -	C ≤ 0.66%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	/	/
4-hydroxy-2,5-dimethyl-3(2H)-furanone	3658-77-3 222-908-8 -	C ≤ 0.5%	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318	/	/
eugenol	97-53-0 202-589-1 -	C ≤ 0.5%	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 268-264-1 -	C ≤ 0.3%	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	/	/
beta-pinene	127-91-3 204-872-5 -	C ≤ 0.27%	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	/	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
trans-hex-2- enal	6728-26-3 229-778-1 -	C ≤ 0.2%	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	/	/
p-mentha-1,4- diene	99-85-4 202-794-6 -	C ≤ 0.16%	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Repr. 2; H361 Aquatic Chronic 2; H411	/	/
methyl 2- nonynoate	111-80-8 203-909-2 -	C ≤ 0.1%	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 3; H412	/	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

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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. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs, provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

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. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. 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

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering. May cause sensitisation by skin contact (itching, redness, rashes).

Following eye contact

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. If ingested, may cause burns of the mouth and throat, as well as perforation of the esophagus and stomach. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

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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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

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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

Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

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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.

Industrial sector specific solutions

No information.

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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

Name	Type	Exposure route	exp. frequency	Remark	Value
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Worker	inhalation	long term systemic effects	/	13.5 mg/m ³
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Worker	dermal	long term systemic effects	/	36.7 mg/kg bw/day
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Consumer	oral	long term systemic effects	/	2.3 mg/kg bw/day
2-ethyl-3-hydroxy-4-pyrone	Worker	inhalation	long term systemic effects	/	19.7 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	Value
2-ethyl-3-hydroxy-4-pyrone	Worker	dermal	long term systemic effects	/	5.6 mg/kg bw/day
2-ethyl-3-hydroxy-4-pyrone	Consumer	inhalation	long term systemic effects	/	3.48 mg/m ³
2-ethyl-3-hydroxy-4-pyrone	Consumer	dermal	long term systemic effects	/	2 mg/kg bw/day
2-ethyl-3-hydroxy-4-pyrone	Consumer	oral	long term systemic effects	/	2 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	Value
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	fresh water	/	6.8 µg/L
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	marine water	/	0.44 µg/L
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	water treatment plant	/	1 mg/L
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	fresh water sediment	/	2 mg/kg

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Name	Exposure route	Remark	Value
1,3,4,6,7,8-Hexahydro-4,6,6,7,8-hexamethylindeno[5,6-c]pyran	marine water sediment	/	0.394 mg/kg
1,3,4,6,7,8-Hexahydro-4,6,6,7,8-hexamethylindeno[5,6-c]pyran	soil	/	1.5 mg/kg
2-ethyl-3-hydroxy-4-pyrone	fresh water	/	7.2 µg/L
2-ethyl-3-hydroxy-4-pyrone	marine water	/	0.72 µg/L
2-ethyl-3-hydroxy-4-pyrone	water treatment plant	/	1.55 mg/L
2-ethyl-3-hydroxy-4-pyrone	fresh water sediment	dry weight	0.269 mg/kg
2-ethyl-3-hydroxy-4-pyrone	marine water sediment	dry weight	0.027 mg/kg
2-ethyl-3-hydroxy-4-pyrone	soil	dry weight	0.049 mg/kg

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. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

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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

Wear tight fitting protective goggles and/or face protection (EN 166).

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). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

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	pale yellow to yellow
Odour	Food - Green - Fruity
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	95 °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	0.903 — 0.923
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
1,3,4,6,7,8 - Hexahydro-4,6,6,7,8,8 - hexamethylindeno[5,6-c]pyran	oral	LD ₅₀	rat	/	3250 mg/kg	/	/
1,3,4,6,7,8 - Hexahydro-4,6,6,7,8,8 - hexamethylindeno[5,6-c]pyran	dermal	LD ₅₀	rabbit	/	3250 mg/kg	/	/
1,3,4,6,7,8 - Hexahydro-4,6,6,7,8,8 - hexamethylindeno[5,6-c]pyran	inhalation	LC ₅₀	/	/	30000 mg/L	/	/
geraniol	oral	/	/	/	3600 mg/kg	/	/
alpha-ionone	oral	LD ₅₀	rat	/	4590 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
linalool	/	ATE	/	/	2790 mg/kg	/	Linalool ETAO : 2 790,00 mg/kg(Dét erminée) ETAC : Non déterminé e ETAI : Non déterminé e
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	oral	LD ₅₀	rat	/	4590 mg/kg	/	/
5-methyl-3-heptanone oxime	/	ATE	/	/	3500 mg/kg	/	ETAO : 3 500,00 mg/kg(Dét erminée) ETAC : Non déterminé e ETAI : Non déterminé e
vanillin	dermal	LD ₅₀	rabbit	/	5000 mg/kg	/	/
vanillin	oral	LD ₅₀	guinea pig	/	1400 mg/kg	/	/
vanillin	oral	LD ₅₀	mouse	/	3925 mg/kg	/	/
vanillin	oral	LD ₅₀	rat	/	1580 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
Ethyl Vanillin	oral	LD ₅₀	rat	/	> 3160 mg/kg bw	OECD 401	/
Ethyl Vanillin	dermal	LD ₅₀	rat	/	> 2000 mg/kg bw	OECD 402	/
2-ethyl-3-hydroxy-4-pyrone	oral	LD ₅₀	rat	/	1200 mg/kg	/	/
linalyl acetate	oral	LD ₅₀	rat	/	> 9000 mg/kg	/	/
linalyl acetate	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
linalyl acetate	oral	LD ₅₀	mouse	/	12000 mg/kg	/	/
allyl hexanoate	oral	LD ₅₀	/	/	218 mg/kg bw	/	/
allyl hexanoate	dermal	LD ₅₀	/	/	820 mg/kg bw	/	/
allyl hexanoate	inhalation (dusts/mists)	ATE	/	/	0.5 mg/L	/	/
cis-3-hexenol	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
cis-3-hexenol	oral	LD ₅₀	rat	/	4700 mg/kg	/	/
cis-3-hexenol	oral	ATE	/	/	4700 mg/kg	/	/
methyle cinnamate	dermal	LD ₅₀	rat	/	2610 mg/kg bw	OECD 401	/
methyle cinnamate	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg bw	OECD 402	/

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ACCORDING TO REGULATION (EC) 1907/2006

Product name: Blackberry and Blueberry Fragrance Oil

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
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	/	/
4-hydroxy-2,5-dimethyl-3(2H)-furanone	oral	ATE	/	/	500 mg/kg	/	/
eugenol	oral	/	/	/	2500 mg/kg	/	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	oral	LD ₅₀	rat	/	2500 mg/kg	/	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	oral	LD ₅₀	rat	/	990 mg/kg	/	/
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	dermal	LD ₅₀	rabbit	/	2500 mg/kg	/	/

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Product name: Blackberry and Blueberry Fragrance Oil

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
trans-hex-2-enal	oral	LD ₅₀	rat	/	900 mg/kg	/	/
trans-hex-2-enal	dermal	LD ₅₀	rabbit	/	600 mg/kg	/	/
p-mentha-1,4-diene	oral	LD ₅₀	/	/	3850 mg/kg	/	/
methyl 2-nonynoate	oral	LD ₅₀	rat	/	870 mg/kg	/	/
methyl 2-nonynoate	oral	ATE	/	/	870 mg/kg	/	/
methyl 2-nonynoate	dermal	ATE	/	/	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
d-limonene	/	/	Irritating.	/	/
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 product

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Species	Time	Result	Method	Remark
/	/	The product is classified Eye Dam. 1 according to the referenced regulation. Causes serious eye damage.	/	/

For components

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

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation

For product

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

For components

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Name	Exposure route	Species	Time	Result	Method	Remark
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	/	/	/	Translation required (392593)	Translation required (391021)	Translation required (392592)
2,4-dimethylcyclohex-3-en-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. 1A according to the referenced regulation. May cause an allergic skin reaction. Sensitisation to the respiratory tract: The product is not classified.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	Result	Method	Remark
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. Reproductive toxicity: The product is not classified. Germ cell mutagenicity: The

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product is not classified.

(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.

(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. Specific target organ toxicity (single exposure): The product is 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.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
vanillin	LC ₅₀	> 57 mg/L	96 h	fish	/	/	/
vanillin	EC ₅₀	36.79 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
vanillin	EC ₅₀	120 mg/L	72 h	algae	/	/	/
vanillin	NOEC	> 2 mg/L	72 h	crustacea	/	/	/
Ethyl Vanillin	LC ₅₀	87.6 mg/L	/	fish	<i>Pimephales promelas</i>	/	/
Ethyl Vanillin	EC ₅₀	36.79 mg/L	/	crustacea	<i>Daphnia magna</i>	/	/
Ethyl Vanillin	EC ₅₀	120 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
linalyl acetate	LC ₅₀	11 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
linalyl acetate	EC ₅₀	15 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
linalyl acetate	NOEC	9.6 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
cis-3-hexenol	EC ₅₀	381 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	fresh water, juvenile
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-hex-2-enal	EC ₅₀	8.16 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
trans-hex-2-enal	EC ₅₀	22.8 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
1,3,4,6,7,8 - Hexahydro-4,6,6,7,8,8 - hexamethylindeno[5,6-c]pyran	NOEC	111 µg/L	21 day	crustacea	<i>Daphnia magna</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
1,3,4,6,7,8 - Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	NOEC	80 µg/L	21 day	crustacea	<i>Daphnia magna</i>	/	/
1,3,4,6,7,8 - Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	NOEC	1 mg/L	21 day	crustacea	<i>Daphnia magna</i>	/	/
Ethyl Vanillin	NOEC	5.9 mg/L	21 days	crustacea	<i>Daphnia magna</i>	/	/
Ethyl Vanillin	LOEC	10 mg/L	21 days	crustacea	<i>Daphnia magna</i>	/	/
trans-hex-2-enal	NOEC	11.9 mg/L	2 days	crustacea	<i>Daphnia magna</i>	/	/

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

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Name	Type	Rate	Time	Evaluation	Method	Remark
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	/	2 %	28 days	/	/	CO2 evolution test
vanillin	solubility in water	9 g/L	/	/	/	/
linalyl acetate	biodegradability	76 %	28 days	rapidly biodegradable	OECD 301 F	/
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	biodegradation	42.51 %	28 days	/	/	Oxygen consumption
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

Name	Value	Temperature °C	pH	Concentration	Method
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	5.3	/	/	/	/
linalyl acetate	3.9	/	/	/	OECD 107

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Name	Value	Temperature °C	pH	Concentration	Method
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	4.288	/	/	/	/
beta-pinene	26610	/	/	/	OECD 107
trans-hex-2-enal	1.58	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	BCF	/	1618	/	/	/	/
linalyl acetate	/	/	9.7 - 90.5	/	/	/	/
beta-pinene	BCF	/	1125	/	L/kg	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

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For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
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

In accordance with Regulation (EU) 1907/2006, [1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran, CAS: 1222-05-5, EC: 214-946-9] is/are evaluated to be 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

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

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

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

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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

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)

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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

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ACCORDING TO REGULATION (EC) 1907/2006

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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: 95 °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

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

No information.

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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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.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic 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.

H331 Toxic if inhaled.

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.