



SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Tea Black Base

Creation date: 29.08.2026, Revision: 29.08.2026, Version: 1.0

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

1.1 Product identifier

Product name

Tea Black Base

Product code

[AC00235]

UFI:

EK61-100D-000S-TXW2

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

Relevant identified uses

Fragrance compound

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

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

1.4 Emergency Telephone Number

Emergency

112

Supplier

+381695565029

SECTION 2: HAZARDS IDENTIFICATION



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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.
Eye Dam. 1; H318 Causes serious eye damage.
Repr. 2; H361 Suspected of damaging fertility or the unborn child.
Aquatic Acute 1; H400 Very toxic to aquatic life.
Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

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



Signal word: **DANGER**

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H361 Suspected of damaging fertility or the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

P102 Keep out of reach of children.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

Tetramethyl acetyloctahydronaphthalenes (OTNE)
linalool
eugenol
geraniol
coumarin
 α -methyl-1,3-benzodioxole-5-propionaldehyde
limonene
phenethyl acetate
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one



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carvone (ISO)
cinnamaldehyde
indol
citral
beta-Bisabolene
Pseudo-ionone (impurity)
p-mentha-1(7),2-diene
2-hydroxy-3-methylcyclopent-2-enone
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

Not applicable. 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
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	14901-07-6 238-969-9 -	[10-20]	Aquatic Chronic 2; H411	/	/



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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Tetramethyl acetyloctahydr onaphthalenes (OTNE)	5445-57-2 259-174-3 -	[10-20]	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410; M = 1	/	/
linalool	78-70-6 201-134-4 603-235-00-2	[5-10]	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
cedrol	77-53-2 201-035-6 -	[1-5]	Aquatic Chronic 2; H411	/	/
eugenol	97-53-0 202-589-1 -	[1-5]	Skin Sens. 1B; H317 Eye Irrit. 2; H319	/	/
geraniol	106-24-1 203-377-1 -	[1-5]	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Dam. 1; H318	/	/



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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
A mixture of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one; a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	111879-80-2 422-320-3 -	[1-5]	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	/	/
coumarin	91-64-5 202-086-7 -	[1-5]	Acute Tox. 4; H302 Skin Sens. 1B; H317	oral: ATE = 500 mg/kg bw	/
alpha cedrene	469-61-4 207-418-4 -	[1-5]	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Aquatic Acute 1; H400; M = 10 Aquatic Chronic 1; H410; M = 10	/	/
2-phenylethanol	60-12-8 200-456-2 -	[1-5]	Acute Tox. 4; H302 Eye Irrit. 2; H319	oral: ATE = 1610 mg/kg bw	/
α -methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6 605-042-00-9	[1-5]	Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 2; H411	/	/



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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
limonene	5989-27-5 205-341-0 601-029-00-7	[1-5]	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	/	/
phenethyl acetate	103-45-7 203-113-5 -	[0-1]	Eye Dam. 1; H318	/	/
Camphene	79-92-5 201-234-8 -	[0-1]	Flam. Sol. 2; H228 Eye Irrit. 2; H319 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
1,2,3,5,6,7- hexahydro- 1,1,2,3,3- pentamethyl- 4H-inden-4- one	33704-61-9 251-649-3 -	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	/	/
carvone (ISO)	99-49-0 202-759-5 -	[0-1]	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
cinnamaldehyde	104-55-2 203-213-9 -	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	Skin Sens. 1A; H317; C ≥ 0.01%	/
indol	120-72-9 204-420-7 -	[0-1]	Acute Tox. 4; H302 Acute Tox. 3; H311 Eye Dam. 1; H318	oral: ATE = 1000 mg/kg bw dermal: ATE = 790 mg/kg bw	/
citral	5392-40-5 226-394-6 605-019-00-3	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319	/	/
beta-Bisabolene	495-61-4 - -	[0-1]	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Acute Tox. 4; H332 Aquatic Chronic 2; H411	inhalation: ATE = 1.5 mg/l (vapours)	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Pseudo-ionone (impurity)	141-10-6 205-457-1 -	[0-1]	Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	/	/
p-mentha- 1(7),2-diene	555-10-2 209-081-9 -	[0-1]	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Sens. 1A; H317	/	/
2-hydroxy-3- methylcyclope nt-2-enone	80-71-7 201-303-2 -	[0-1]	Acute Tox. 4; H302 Skin Sens. 1A; H317	oral: ATE = 1067 mg/kg bw	/
isoeugenol	97-54-1 202-590-7 -	[0-1]	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	oral: ATE = 542 mg/kg bw dermal: ATE = 1912 mg/kg bw inhalation: ATE = 1.5 mg/l (vapours)	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

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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.

4.3 Indication of any immediate medical attention and special treatment needed

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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 firefighters

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.



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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

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.



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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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values



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Information on monitoring procedures

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

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

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

Structural measures to prevent exposure

No information.

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

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).

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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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state

liquid



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Shape	No information.
Colour	yellow
Odour	aromatic
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	90.5 °C (close cup)
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 / weight	No information.
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



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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

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

(a) Acute toxicity

For components



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Name	Exposure route	Type	Species	Time	Value	Method	Remark
4-(2,6,6-trimethylcy clohex-1-ene-1-yl)-but-3-ene-2-one	oral	LD ₅₀	rat	/	4590 mg/kg	/	/
Tetramethyl acetyloctahydronaphthalenes (OTNE)	oral	LD ₅₀	rat	/	> - 5000 mg/kg	/	/
Tetramethyl acetyloctahydronaphthalenes (OTNE)	dermal	LD ₅₀	rat	/	> - 5000 mg/kg	/	/
linalool	oral	LD ₅₀	rat	/	2790 mg/kg bodyweight	OECD Guideline 401 (Acute Oral Toxicity)	Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2440 - 3180
linalool	oral	LD ₅₀	mouse	/	3120 mg/kg bodyweight	OECD Guideline 401 (Acute Oral Toxicity)	Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2620 - 3620



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Name	Exposure route	Type	Species	Time	Value	Method	Remark
linalool	dermal	LD ₅₀	rabbit	/	5610 mg/kg bodyweight	OECD Guideline 402 (Acute Dermal Toxicity)	Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374
cedrol	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
cedrol	dermal	LD ₅₀	rat	/	> 5000 mg/kg	/	/
cedrol	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
eugenol	oral	/	/	/	2500 mg/kg	/	/
geraniol	oral	/	/	/	3600 mg/kg	/	ETAO : 3 600,00 mg/kg(Déterminée)



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Name	Exposure route	Type	Species	Time	Value	Method	Remark
A mixture of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one; a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	oral	LD ₅₀	rat	/	> 2000 mg/kg bw	OECD 423	/
A mixture of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one; a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	dermal	LD ₅₀	rat	/	> 2000 mg/kg bw	OECD 402	/
coumarin	oral	ATE	/	/	500 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
2-phenylethanol	dermal	LD ₅₀	rabbit	/	2535 mg/kg bodyweight	/	Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 1769 - 3634
2-phenylethanol	inhalation	LC ₅₀	rat	/	> 4.63 mg/l air	/	Animal: rat
α-methyl-1,3-benzodioxole-5-propionaldehyde	oral	LD ₅₀	rat	/	3561 mg/kg	/	/
α-methyl-1,3-benzodioxole-5-propionaldehyde	oral	LD ₅₀	rabbit	/	> 2000 mg/kg	/	/
phenethyl acetate	oral	LD ₅₀	rat	/	- 3670 mg/kg	/	/
phenethyl acetate	dermal	LD ₅₀	rabbit	/	- 6210 mg/kg	/	/
Camphene	oral	LD ₅₀	rat	/	5000 mg/kg	/	/
Camphene	dermal	LD ₅₀	rabbit	/	2500 mg/kg	/	/



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Name	Exposure route	Type	Species	Time	Value	Method	Remark
1,2,3,5,6,7 - hexahydro -1,1,2,3,3-pentamethyl-4H-inden-4-one	oral	LD ₅₀	rat	/	2685 mg/kg bodyweight	OECD Guideline 401 (Acute Oral Toxicity)	Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2043 - 3529
carvone (ISO)	oral	LD ₅₀	/	/	= 1600 mg/kg	/	/
carvone (ISO)	dermal	LD ₅₀	/	/	= 3800 mg/kg	/	/
cinnamaldehyde	/	/	/	/	2220 mg/kg	/	ETAI : Non déterminée
cinnamaldehyde	/	/	/	/	mg/kg	/	ETAI : Non déterminée
indol	oral	/	/	/	1000 mg/kg	/	/
indol	dermal	/	/	/	790 mg/kg	/	/
citral	Intraperitoneal	LD ₅₀	rat	/	460 mg/kg	/	/
citral	oral	LD ₅₀	mouse	/	6000 mg/kg	/	/
citral	oral	LD ₅₀	rat	/	4960 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
2-hydroxy-3-methylcyclopent-2-enone	oral	LD ₅₀	rat (male)	/	ca. 1067.4 mg/kg	OECD 401	GLP

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	Result	Method	Remark
Tetramethyl acetyloctahydronaphthalenes (OTNE)	human	/	Irritating.	OECD 439	/
limonene	/	/	Irritating.	/	/
citral	/	/	Irritating.	/	/
citral	/	/	May cause sensitisation by skin contact.	/	/
2-hydroxy-3-methylcyclopent-2-enone	Reconstructed Human Epidermis (RHE)	1 h	No skin irritation.	OECD 439	GLP

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

For components



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Name	Exposure route	Species	Time	Result	Method	Remark
Tetramethyl acetyloctahy dronaphthal enes (OTNE)	/	/	/	Danger of serious eye injury.	/	/
citral	/	rabbit	/	Irritating.	OECD 405	/
2-hydroxy-3-methylcyclo pent-2-enone	/	cornea of cattle	/	Danger of serious eye injury.	OECD 437	GLP, concentration 100%

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	Result	Method	Remark
Tetramethyl acetyloctahy dronaphthal enes (OTNE)	dermal	/	/	May cause an allergic skin reaction.	/	/
citral	dermal	/	/	Sensitizing.	/	/
p-mentha-1(7),2-diene	/	mouse	/	Causes sensitization .	OECD 442B	local lymph node test, concentration 15%, solvent acetone/olive oil (4:1), based on data for similar substances

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Name	Exposure route	Species	Time	Result	Method	Remark
2-hydroxy-3-methylcyclopent-2-enone	/	human	/	Causes sensitization.	OECD 442C, direct peptide reactivity test	GLP

Additional information

It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction. May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	Result	Method	Remark
Tetramethylacetyloctahydronaphthalenes (OTNE)	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	/
2-hydroxy-3-methylcyclopent-2-enone	Genotoxicity in vitro	/	/	Negative with metabolic activation, negative without metabolic activation.	Ames test, OECD 471	GLP

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(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

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	/	NOEL (animal/male, Fo/P)	rat	/	150 mg/kg bodyweight	NOEL (animal/male, Fo/P) 150 mg/kg bodyweight	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)	NOEL (animal/male, Fo/P)
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	/	NOEL (animal/female, Fo/P)	rat	/	1875 mg/kg bodyweight	NOEL (animal/female, Fo/P) 1875 mg/kg bodyweight	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)	NOEL (animal/female, Fo/P)
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	/	NOEL (animal/male, F1)	rat	/	1875 mg/kg bodyweight	NOEL (animal/male, F1) 1875 mg/kg bodyweight	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)	NOEL (animal/male, F1)

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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 ³	/	/	inhalation
citral	Reproductive toxicity	NOAEL	rat	/	> 1000 mg/kg bw/day	/	OECD 421	/

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction. For more information, refer to the regulatory information (Pt 2 and 15 of the FDS, CMR certificate, and others)

(h) STOT-single exposure

For components

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

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
linalool	dermal	NOAEL (dermal, rat/rabbit, 90 days)	rat	90 d	/	/	250 mg/kg bodyweight	NOAEL (dermal, rat/rabbit, 90 days) 250 mg/kg bodyweight	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)	NOAEL (dermal, rat/rabbit, 90 days)



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Name	Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
2-phenyl ethanol	dermal	NOEL	rat	90 d	/	/	510 mg/kg bodyweight	NOEL 510 mg/kg bodyweight	/	Animal : rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	oral	NOEL (oral, rat, 90 days)	rat	90 d	/	/	10 mg/kg bodyweight	NOEL (oral, rat, 90 days) 10 mg/kg bodyweight	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	NOEL (oral, rat, 90 days)

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.



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Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

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

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

No information.

Chronic (long-term) toxicity

No information.

Additional information

Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)



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No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

Additional information

Not concerned

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

For product

Not concerned The product does not contain substances identified as having endocrine disrupting properties (environment) in concentrations equal or greater than 0.1% (m/m).

12.7 Other adverse effects

Not concerned

12.8 Additional information

For product

Very toxic to aquatic organisms. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

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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.

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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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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: 90.5 °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.	/	/

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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



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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.

H228 Flammable solid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.