

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Lemon Meringue Fragrance Oil

Creation date: 10.05.2026, Revision: 10.05.2026, Version: 1.0

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

#### 1.1 Product identifier

**Product name**

Lemon Meringue Fragrance Oil

**Product code**

[AL00480]

**UFI:**

T000-A0PG-V008-25QK

#### 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  
<https://avenalab.com/>

#### 1.4 Emergency Telephone Number

**Emergency**

112

**Supplier**

+381695565029

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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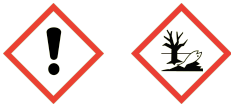
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### Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Sens. 1; H317 May cause an allergic skin reaction.  
Eye Irrit. 2; H319 Causes serious eye irritation.  
Aquatic Acute 1; H400 Very toxic to aquatic life.  
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:

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

#### Supplemental hazard information (EU):

Not applicable.

#### Precautionary statements:

P272 Contaminated work clothing should not be allowed out of the workplace.  
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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with national regulation.

#### Contains:

$\alpha$ -hexylcinnamaldehyde  
citral  
p-methoxybenzyl acetate  
piperonal  
d-limonene

### 2.3 Other hazards

#### PBT/vPvB

No information.

#### Endocrine disrupting properties

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

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### Additional information

No information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

For mixtures see 3.2.

### 3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
α-hexylcinnamaldehyde	101-86-0 202-983-3 -	C= 20.0%	Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	oral: ATE = 3100 mg/kg bw	/
benzyl benzoate	120-51-4 204-402-9 607-085-00-9	C= 20.0%	Acute Tox. 4; H302 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411	oral: ATE = 1500 mg/kg bw	/
Ethyl Vanillin	121-32-4 204-464-7 -	C= 10.0%	Eye Irrit. 2; H319	oral: ATE = 3000 mg/kg bw	/
citral	5392-40-5 226-394-6 605-019-00-3	C= 4.42%	Skin Irrit. 2; H315 Skin Sens. 1; 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
vanillin	121-33-5 204-465-2 -	C= 4.4%	Eye Irrit. 2; H319	oral: ATE = 2600 mg/kg bw	/
Anisaldehyde	123-11-5 204-602-6 -	C= 4.0%	Aquatic Chronic 3; H412	oral: ATE = 3210 mg/kg bw	/
2-ethyl-3- hydroxy-4- pyrone	4940-11-8 225-582-5 -	C= 1.8%	Acute Tox. 4; H302	oral: ATE = 1200 mg/kg bw	/
p- methoxybenzyl acetate	104-21-2 203-185-8 -	C= 1.4%	Skin Sens. 1B; H317	/	/
benzaldehyde	100-52-7 202-860-4 605-012-00-5	C= 1.2%	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335	oral: ATE = 2500 mg/kg bw inhalation: ATE = 15 mg/l (vapours)	/
piperonal	120-57-0 204-409-7 -	C= 0.8%	Skin Sens. 1B; H317 Repr. 2; H361	oral: ATE = 2700 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
d-limonene	5989-27-5 227-813-5 601-096-00-2	C= 0.41%	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	/	/

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### **General notes**

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

##### **Following inhalation**

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

##### **Following skin contact**

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

##### **Following eye contact**

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

##### **Following ingestion**

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

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### 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

Contact with skin may cause irritation (redness, itching). 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.

## 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

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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.

#### 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.

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### 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

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

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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. 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

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### 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 also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

#### Appropriate materials

No information.

#### Skin protection

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

#### Respiratory protection

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

#### Thermal hazards

No information.

#### Environmental exposure controls

#### Substance/mixture related measures to prevent exposure

No information.

#### Instruction measures to prevent exposure

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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 pale yellow.
Odour	Woody - Musk - Hesperidia - Spicy
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	> 100 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility (Water)	soluble

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Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Relative density	0.9805
Relative vapour/gas density	No information.
Particle characteristics	No information.

### 9.2 Other information

#### Information with regard to physical hazard classes

No information.

#### Other safety characteristics

No information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No information.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No information.

### 10.4 Conditions to avoid

No information.

### 10.5 Incompatible materials

No information.

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### 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

Name	Exposure route	Type	Species	Time	Value	Method	Remark
benzyl benzoate	oral	/	/	/	1160 mg/kg	/	/
benzyl benzoate	dermal	/	/	/	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	/
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	/	/
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	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
vanillin	oral	LD <sub>50</sub>	rat	/	1580 mg/kg	/	/
Anisaldehyd	oral	LD <sub>50</sub>	rat	/	1510 mg/kg	/	/
Anisaldehyd	oral	LD <sub>50</sub>	mouse	/	1859 mg/kg	/	/
Anisaldehyd	oral	LD <sub>50</sub>	guinea pig	/	1260 mg/kg	/	/
Anisaldehyd	dermal	LD <sub>50</sub>	rabbit	/	> 5000 mg/kg	/	/
2-ethyl-3-hydroxy-4-pyrone	oral	LD <sub>50</sub>	rat	/	1200 mg/kg	/	/
benzaldehyd	oral	LD <sub>50</sub>	rat	/	1292 mg/kg	/	/
benzaldehyd	dermal	LD <sub>50</sub>	rabbit	/	1250 mg/kg	/	/
piperonal	oral	LD <sub>50</sub>	rat	/	2700 mg/kg	/	/
piperonal	dermal	LD <sub>50</sub>	rat	/	5000 mg/kg	/	/
piperonal	inhalation	LC <sub>50</sub>	/	/	30000 mg/L	/	/

### Additional information

The product is not classified as acutely toxic.

### (b) Skin corrosion/irritation

#### For components

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Name	Species	Time	Result	Method	Remark
citral	/	/	Irritating.	/	/
citral	/	/	May cause sensitisation by skin contact.	/	/
d-limonene	/	/	Irritating.	/	/

### (c) Serious eye damage/irritation

#### For product

Species	Time	Result	Method	Remark
/	/	The product is classified Eye Irrit. 2 according to the referenced regulation.	/	/

#### For components

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

### Additional information

Causes serious eye irritation.

### (d) Respiratory or skin sensitisation

#### For product

Exposure route	Species	Time	Result	Method	Remark
/	/	/	The product is classified Skin Sens. 1B according to the referenced regulation.	/	/
/	/	/	The product is not classified.	/	/

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### For components

Name	Exposure route	Species	Time	Result	Method	Remark
citral	dermal	/	/	Sensitizing.	/	/

### Additional information

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

### (e) (Germ cell) mutagenicity

#### For product

Type	Species	Time	Result	Method	Remark
/	/	/	The product is not classified.	/	/

### For components

Name	Type	Species	Time	Result	Method	Remark
citral	Genotoxicity	/	/	Negative.	/	in vitro
citral	in-vivo mutagenicity	/	/	Negative.	OECD 471	/
citral	Genotoxicity	mouse	/	Studies in vivo have shown it is not genotoxic.	OECD 474	/
Anisaldehyde	Genotoxicity	<i>Salmonella typhimurium</i>	/	Negative.	/	in vitro

### (f) Carcinogenicity

#### For product

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Exposure route	Type	Species	Time	Value	Result	Method	Remark
/	/	/	/	/	The product is not classified.	/	/

### 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 product

Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
/	/	/	/	/	The product is not classified.	/	/

### For components

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

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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 product is not classified.

### (h) STOT-single exposure

#### For product

Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
/	/	/	/	/	/	/	The product is not classified.	/	/

#### 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.	/	/

#### Additional information

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

### (i) STOT-repeated exposure

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### For product

Exposure route	Type	Species	Time	Exposure	Organ	Value	Result	Method	Remark
/	/	/	/	/	/	/	The product is not classified.	/	/

### 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

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No information.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

##### Acute (short-term) toxicity

##### For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
$\alpha$ -hexylcinna maldehyde	LC <sub>50</sub>	1.7 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	flow-through
$\alpha$ -hexylcinna maldehyde	EC <sub>50</sub>	0.38 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	flow-through
$\alpha$ -hexylcinna maldehyde	NOEC	0.065 mg/L	72 h	algae	<i>Desmodesmus subspicatus</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	/	/	/
p-methoxybenzyl acetate	LC <sub>50</sub>	13.1 mg/L	96 h	fish	<i>Danio rerio</i>	OECD 203	experimental value
p-methoxybenzyl acetate	EC <sub>50</sub>	31 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	static system

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
p-methoxybenzyl acetate	EC <sub>50</sub>	38 - 59.9 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	static system

### Chronic (long-term) toxicity

#### For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
α-hexylcinnamaldehyde	NOEC	0.063 mg/L	21 days	crustacea	<i>Daphnia magna</i>	/	/

### Additional information

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

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

No information.

#### Biodegradation

##### For components

Name	Type	Rate	Time	Evaluation	Method	Remark
α-hexylcinnamaldehyde	biodegradability	97 %	28 days	readily biodegradable	/	/
vanillin	solubility in water	9 g/L	/	/	/	/
p-methoxybenzyl acetate	biodegradability	/	/	biodegradable	/	/

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### 12.3 Bioaccumulative potential

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

##### For components

Name	Value	Temperature °C	pH	Concentration	Method
α-hexylcinnamaldehyde	4.9	/	/	/	/

#### Bioconcentration factor (BCF)

##### For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
α-hexylcinnamaldehyde	BCF	/	704.3	/	/	/	QSAR

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

##### For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
α-hexylcinnamaldehyde	Soil	/	15000	/	/	Koc

#### Additional information

The product has not been tested.

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### 12.5 Results of PBT and vPvB assessment

No evaluation.

### 12.6 Endocrine disrupting properties

#### For product

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

### 12.7 Other adverse effects

not available

### 12.8 Additional information

#### For product

Very toxic to aquatic organisms. Do not allow to reach ground water, water courses or sewage system.  
Additional ecotoxicological information Not available

## 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.

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**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)

ADR/RID	IMDG	IATA	ADN
9	9	9	9
 	 	 	 

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### 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
<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.	/	/

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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.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.