

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cinnamon Cider Fragrance Oil

Creation date: 24.04.2026, Revision: 24.04.2026, Version: 1.0

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

1.1 Product identifier

Product name

Cinnamon Cider Fragrance Oil

Product code

[AL00413]

UFI:

5U80-F0SD-E00A-60MH

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

Relevant identified uses

Ingredient for industrial use: perfume composition

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

Farmadria DOO
Heroja Pinkija 44
26300 Vršac, Serbia
+381695565029
info@avenalab.com

1.4 Emergency Telephone Number

Emergency

112

Supplier

+381695565029

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

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Skin Sens. 1; H317 May cause an allergic skin reaction.
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.
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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
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:

eugenol
coumarin
2,4-dimethylcyclohex-3-ene-1-carbaldehyde
 α -methylcinnamaldehyde
linalool
cinnamaldehyde
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one
isocyclocitral
d-limonene
citral

2.3 Other hazards

PBT/vPvB

No information.

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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 |
|--|--|-----------|---|-------------------------------------|-------------------------|
| benzyl benzoate | 120-51-4 204-402-9 607-085-00-9 | C= 27.41% | Acute Tox. 4; H302 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411 | oral: ATE = 1500 mg/kg bw | / |
| 2-tert-butylcyclohexyl acetate | 88-41-5 201-828-7 - | C= 8.06% | Aquatic Chronic 2; H411 | oral: ATE = 4600 mg/kg bw | / |
| 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= 7.65% | 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 |
|---|------------------------------|----------|--|--|-------------------------|
| benzyl acetate | 140-11-4 205-399-7 - | C= 1.94% | Aquatic Chronic 3; H412 | oral: ATE = 2490 mg/kg bw dermal: ATE = 5000 mg/kg bw | / |
| α,3,3-trimethylcyclohexylmethyl formate | 25225-08-5 246-735-2 - | C= 1.47% | Aquatic Chronic 2; H411 | / | / |
| eugenol | 97-53-0 202-589-1 - | C= 1.16% | Skin Sens. 1B; H317 Eye Irrit. 2; H319 | oral: ATE = 2500 mg/kg bw | / |
| coumarin | 91-64-5 202-086-7 - | C= 0.88% | Acute Tox. 4; H302 Skin Sens. 1B; H317 | oral: ATE = 500 mg/kg bw | / |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | 68039-49-6 268-264-1 - | C= 0.82% | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411 | oral: ATE = 2330 mg/kg bw | / |
| α-methylcinnamaldehyde | 101-39-3 202-938-8 - | C= 0.59% | Skin Sens. 1B; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 2; H411 | oral: ATE = 2050 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 |
|---|---------------------------------------|----------|--|-------------------------------------|-------------------------|
| linalool | 78-70-6 201-134-4 - | C= 0.59% | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 | oral: ATE = 2790 mg/kg bw | / |
| cinnamaldehyde | 104-55-2 203-213-9 606-155-00-6 | C= 0.32% | Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412 | oral: ATE = 2220 mg/kg bw | / |
| 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one | 57378-68-4 260-709-8 - | C= 0.29% | Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1 | oral: ATE = 1400 mg/kg bw | / |
| isocyclocitral | 1335-66-6 215-638-7 - | C= 0.29% | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412 | / | / |

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| Name | CAS EC Index REACH | % | Classification according to Regulation (EC) No 1272/2008 (CLP) | Specific Concentration Limits | Notes for substances |
|---------------------------------------|--|----------|---|--|-------------------------|
| d-limonene | 5989-27-5 227-813-5 601-096-00-2 | C= 0.29% | 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 | / | / |
| allyl (3- methylbutoxy)a cetate | 67634-00-8 266-803-5 - | C= 0.18% | Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 2; H330 STOT RE 2; H373 Aquatic Acute 1; H400; M = 1 | oral: ATE = 500 mg/kg bw dermal: ATE = 1000 mg/kg bw inhalation: ATE = 0.501 mg/l (vapours) | / |
| citral | 5392-40-5 226-394-6 605-019-00-3 | C= 0.18% | 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 |
|------------|--------------------------------------|---|--|--|-------------------------|
| isoeugenol | 97-54-1 202-590-7 604-094-00-X | - | Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 | Skin Sens. 1A; H317; C ≥ 0.01% oral: ATE = 1500 mg/kg bw dermal: ATE = 1912 mg/kg bw inhalation: ATE = 11.25 mg/l (vapours) | / |

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

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

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

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

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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

No information.

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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 | Fruity - Spicy - Green |
| 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 | 84 °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 | 0.947 |
| 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 | / | / |
| 2-tert-butylcyclohexyl acetate | oral | LD ₅₀ | rat | / | 4600 mg/kg | / | / |
| 2-tert-butylcyclohexyl acetate | dermal | LD ₅₀ | / | / | > 2000 mg/kg | / | / |
| 2-tert-butylcyclohexyl acetate | inhalation | LC ₅₀ | / | 4 h | > 20 mg/L | / | / |
| 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 | / | / |

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| 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 | 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 | / | / |
| benzyl acetate | / | / | / | / | 2490 mg/kg | / | / |
| α,3,3-trimethylcyclohexylmethyl formate | dermal | LD ₅₀ | rabbit | / | > 5000 mg/kg | / | / |
| α,3,3-trimethylcyclohexylmethyl formate | oral | LD ₅₀ | rat | / | > 5000 mg/kg | / | / |
| eugenol | oral | / | / | / | 2500 mg/kg | / | / |
| coumarin | oral | ATE | / | / | 500 mg/kg | / | / |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | oral | LD ₅₀ | rat | / | 2500 mg/kg | / | / |

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| Name | Exposure route | Type | Species | Time | Value | Method | Remark |
|--|----------------|------------------|---------|------|------------|--------|--|
| 2,4-dimethylcy clohex-3-ene-1-carbaldehyde | oral | LD ₅₀ | rat | / | 990 mg/kg | / | / |
| 2,4-dimethylcy clohex-3-ene-1-carbaldehyde | dermal | LD ₅₀ | rabbit | / | 2500 mg/kg | / | / |
| α-methylcinnamaldehyde | oral | LD ₅₀ | rat | / | 2050 mg/kg | / | / |
| α-methylcinnamaldehyde | dermal | LD ₅₀ | rabbit | / | > 5 g/kg | / | / |
| linalool | / | ATE | / | / | 2790 mg/kg | / | Linalool ETAO : 2 790,00 mg/kg(Dét erminée) ETAC : Non déterminé e ETAI : Non déterminé e |
| cinnamaldéhyde | oral | LD ₅₀ | rat | / | 2221 mg/kg | / | / |
| cinnamaldéhyde | dermal | LD ₅₀ | rabbit | / | 1261 mg/kg | / | / |
| cinnamaldéhyde | inhalation | LC ₅₀ | rat | / | 68.9 mg/kg | / | / |

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| Name | Exposure route | Type | Species | Time | Value | Method | Remark |
|-------------------------------|----------------|------------------|---------|------|------------|--------|------------------|
| isocyclocitral | oral | LD ₅₀ | rat | / | 4500 mg/kg | / | / |
| isocyclocitral | oral | ATE | / | / | 4500 mg/kg | / | / |
| allyl (3-methylbutoxy)acetate | oral | LD ₅₀ | / | / | 730 mg/kg | / | calculated value |
| allyl (3-methylbutoxy)acetate | oral | ATE | / | / | 730 mg/kg | / | CLP |

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

| Name | Species | Time | Result | Method | Remark |
|---|---------|------|---|----------|--------|
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | / | / | Skin irritation : May be harmful in contact with skin. Causes skin irritation. | / | / |
| cinnamaldehyde | / | / | Irritating to skin. | OECD 404 | / |
| isocyclocitral | rabbit | 24 h | Mild irritating. | / | 500 mg |
| d-limonene | / | / | Irritating. | / | / |

Additional information

The product is not classified as irritating to skin.

(c) Serious eye damage/irritation

For components

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| Name | Exposure route | Species | Time | Result | Method | Remark |
|---|----------------|---------|------|---|---|--------|
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | / | / | / | Eyes irritation : Causes serious eye irritation | / | / |
| cinnamaldehyde | / | / | / | Causes serious eye irritation. | OECD 405 Acute Eye Irritation/Corrosion | / |

(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. May cause an allergic skin reaction. | / | / |
| / | / | / | The product is not classified. | / | / |

For components

| Name | Exposure route | Species | Time | Result | Method | Remark |
|---|----------------|---------|------|--|--------|--------|
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | / | / | / | Respiratory or Skin sensitization : May cause an allergic skin reaction. | / | / |

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| Name | Exposure route | Species | Time | Result | Method | Remark |
|----------------|----------------|---------|------|----------------------|--------|--------|
| cinnamaldehyde | dermal | / | / | Causes sensitization | / | / |

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 |
|--|-----------------------|---------|------|--|----------|--------|
| 2,4-dimethylcyclohex-3-enal-1-carbaldehyde | in-vitro mutagenicity | / | / | Mutagenicity in vitro (OECD 471) : Negative test | OECD 471 | / |

(f) Carcinogenicity

For product

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

(g) Reproductive toxicity

For product

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

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 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. | / | / |

Additional information

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

(i) STOT-repeated exposure

For product

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

Additional information

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

(j) Aspiration hazard

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No information.

Additional information

Aspiration hazard: Not classified. Additional information: not available Endocrine disrupting properties: According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

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

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

No information.

Chronic (long-term) toxicity

For product

| Type | Value | Exposure time | Species | Organism | Method | Remark |
|------|-------|---------------|---------|----------|--------|--|
| / | / | / | / | / | / | Toxic to aquatic life with long lasting effects. |

Additional information

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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

No information.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

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

The product has not been tested.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

For product

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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.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

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SECTION 14: TRANSPORT INFORMATION









14.1 UN number or ID number

| ADR/RID | IMDG | IATA | ADN |
|---------|---------|---------|---------|
| UN 3082 | UN 3082 | UN 3082 | UN 3082 |

14.2 UN proper shipping name

| ADR/RID | IMDG | IATA | ADN |
|---|---|---|---|
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |

14.3 Transport hazard class(es)

| ADR/RID | IMDG | IATA | ADN |
|---|---|--|---|
| 9 | 9 | 9 | 9 |
|   |   |   |   |

14.4 Packing group

| ADR/RID | IMDG | IATA | ADN |
|---------|------|------|-----|
| III | III | III | III |

14.5 Environmental hazards

| ADR/RID | IMDG | IATA | ADN |
|---------|------------------|------|-----|
| YES | Marine pollutant | YES | YES |

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14.6 Special precautions for user

| 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: 84 °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

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

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

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ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit

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OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H226 Flammable liquid and vapour.
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.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.