

SAFETY DATA SHEET

Prepared in accordance with the provisions of KKDIK Annex-2
Regulation, 23.06.2017, No: 30105

Givaudan

ORANGE PEEL

Version 1.0

Revision Date 01 NOV 2024

Print Date 08 NOV 2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Sales No. : EAN05398/00
ORANGE PEEL

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

Intended Use Fragrances : Perfume compound

1.3 Details of the supplier of the safety data sheet

Company : Givaudan Suisse SA
Chemin de la Parfumerie 5
CH-1214 VERNIER

Telephone : +41227809111
Telefax : +41227809150
E-mail address : global.sds_info@givaudan.com
Responsible/issuing person

1.4 Emergency Call

Givaudan 24/7 call : +33172110003

Please refer to section 16 for a full list of emergency phone numbers, from Givaudan's 24/7 provider.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION about classification, labeling and packaging of substances and mixtures No 28848)

| | |
|--|--|
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (REGULATION about classification, labeling and packaging of substances and mixtures No 28848)

Administrative information:

Report Information: SDS_TR/EN/GHS_SDS_TR/26

Sales & Distribution Information: VE01/FR/CH11/01

Shipping Order Information: 32 220 985/27 809 407

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H315
H317
H318
H411

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P261
P264
P273
P280

Avoid breathing mist or vapours.
Wash skin thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391

Collect spillage.

Hazardous components which must be listed on the label:

- (R)-p-mentha-1,8-diene 5989-27-5
- 2-hexyl-3-phenyl-2-propenal (trans & cis) 101-86-0
- geraniol 106-24-1
- linalool 78-70-6
- 3,7-dimethyl-6-octen-1-ol (= citronellol) 106-22-9
- 3,7-dimethylnona-1,6-dien-3-ol (cis & trans) 10339-55-6
- citral 5392-40-5
- 3,7-dimethyl-2,6-octadienyl acetate (= geranyl acetate) 105-87-3
- 3,7-dimethyloctan-3-ol 78-69-3
- 3,7-dimethyl-2,6-octadien-1-ol (= nerol) 106-25-2
- 2-methyldecanal 19009-56-4
- 2,4-dimethylcyclohex-3-ene-1-carbaldehyde 68039-49-6
- 2-methylundecanal 110-41-8
- dodecanal 112-54-9
- 3,7-dimethyl-6-octen-1-al (= 106-23-0

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- citronellal)
- 2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- (= Eucalyptol) 470-82-6

2.3 Other hazards

Hazards not Otherwise Classified. : None

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical name | CAS-No. EC-No. Registration number | Classification (Regulation TR 28848) | Concentration [%] |
|---------------------------|---|---|----------------------|
| 2,6-dimethyl-7-octen-2-ol | 18479-58-8 242-362-4 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) Acute toxicity estimate Acute oral toxicity: 3 600,00 mg/kg | >= 1 - < 5 |
| (R)-p-mentha-1,8-diene | 5989-27-5 227-813-5 | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 | >= 2,5 - < 5 |

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| | | <p>Aquatic Acute 1; H400 Aquatic Chronic 3; H412</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute oral toxicity: 5 600,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg</p> | |
| decanal | 112-31-2 203-957-4 | <p>Eye Irrit. 2; H319 Aquatic Chronic 3; H412</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute oral toxicity: > 33 320 mg/kg Acute dermal toxicity: 4 173 mg/kg</p> | >= 2,5 - < 5 |
| 2-hexyl-3-phenyl-2-propenal (trans & cis) | 101-86-0 165184-98-5 639-566-4 01-0000466934-37 | <p>Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411</p> <hr/> <p>M-Factor (Acute aquatic toxicity): 1</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute oral toxicity: 3 100,00 mg/kg</p> | >= 2,5 - < 5 |
| geraniol | 106-24-1 203-377-1 | <p>Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute oral toxicity: 3 600,00 mg/kg Acute dermal</p> | >= 3 - < 5 |

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|---|-----------------------|--|--------------|
| | | toxicity: > 5 000,00 mg/kg | |
| linalool | 78-70-6 201-134-4 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 2 790,00 mg/kg | >= 1 - < 5 |
| 3,7-dimethyl-6-octen-1-ol (= citronellol) | 106-22-9 203-375-0 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 3 450,00 mg/kg Acute dermal toxicity: 2 650,00 mg/kg | >= 1 - < 5 |
| 2-propenyl hexanoate (= Allyl hexanoate) | 123-68-2 204-642-4 | Acute Tox. 3; H301 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: 218,00 mg/kg Acute dermal toxicity: 300,00 mg/kg | >= 1 - < 2,5 |
| octanal | 124-13-0 204-683-8 | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412 Acute toxicity | >= 1 - < 2,5 |

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| | | estimate Acute dermal toxicity: > 5 000,00 mg/kg | |
| 3,7-dimethylnona-1,6-dien-3-ol (cis & trans) | 10339-55-6 233-732-6 | Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg | >= 1 - < 5 |
| citral | 5392-40-5 226-394-6 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Acute toxicity estimate Acute oral toxicity: 4 960,00 mg/kg Acute dermal toxicity: 2 250,00 mg/kg | >= 1 - < 5 |
| 3,7-dimethyl-2,6-octadienyl acetate (= geranyl acetate) | 105-87-3 906-083-8 | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 6 330,00 mg/kg | >= 1 - < 2,5 |
| 3,7-dimethyloctan-3-ol | 78-69-3 201-133-9 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: > 5 000,00 mg/kg | >= 1 - < 5 |

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| | | Acute dermal toxicity: > 5 000,00 mg/kg | |
| 3,7-dimethyl-2,6-octadien-1-ol (= nerol) | 106-25-2 203-378-7 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 4 500,00 mg/kg | >= 1 - < 5 |
| 2-methyldecanal | 19009-56-4 242-745-6 | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411 Acute toxicity estimate Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg | >= 1 - < 2,5 |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | 68039-49-6 943-728-2 | Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411 Acute toxicity estimate Acute oral toxicity: > 3 100,00 mg/kg Acute dermal toxicity: 5 000,00 mg/kg | >= 0,25 - < 1 |
| 2,6-bis(1,1-dimethylethyl)-4-methylphenol | 128-37-0 204-881-4 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | >= 0,25 - < 1 |

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| | | Acute toxicity estimate Acute dermal toxicity: > 5 000,00 mg/kg | |
| Undecanal | 112-44-7 203-972-6 | Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg | >= 0,25 - < 1 |
| 2-methylundecanal | 110-41-8 203-765-0 01-0000467897-01 | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 10 000,00 mg/kg | >= 0,25 - < 1 |
| dodecanal | 112-54-9 | Skin Irrit. 2; H315 | >= 0,1 - < 1 |

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|--|---|---|-----------------|
| | 203-983-6 01-0000467901-90 | Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: > 23 100,00 mg/kg | |
| 3,7-dimethyl-6-octen-1-al (= citronellal) | 106-23-0 203-376-6 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 2 420,00 mg/kg | >= 0,1 - < 1 |
| 2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- (= Eucalyptol) | 470-82-6 207-431-5 01-0000467916-66 | Flam. Liq. 3; H226 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 2 480 mg/kg | >= 0,1 - < 1 |
| Lauronitrite | 2437-25-4 219-440-1 | Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 | >= 0,1 - < 0,25 |
| 2-propenyl 2(3)-methylbutoxyacetate | 67634-00-8 67634-01-9 916-328-0 | Acute Tox. 4; H302 Acute Tox. 2; H330 Acute Tox. 4; H312 STOT RE 2; H373 (Liver) Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1 | >= 0,1 - < 0,25 |

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| | | | |
|--|--|--------------------------------------|--|
| | | Acute toxicity estimate | |
| | | Acute oral toxicity: 730,00 mg/kg | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
Immediately seek medical attention if chemical entered ear canal.
If skin irritation persists, call a physician.
- In case of eye contact : Protect unharmed eye.
Remove contact lenses.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Keep eye wide open while rinsing.
Continue rinsing eyes during transport to hospital.
If eye irritation persists, consult a specialist.
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
- If swallowed : Immediately consult Poison Control Center or physician.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available
- Risks : Causes skin irritation.
May cause an allergic skin reaction.

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Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment :
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray.
Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : In the event of fire and/or explosion do not breathe fumes.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep people away from and upwind of spill/leak.
For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
Material can create slippery conditions.
Use personal protective equipment.

6.2 Environmental precautions

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Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use neutralizing agents.
Clean contaminated floors and objects thoroughly while observing environmental regulations.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Temperature class : no data available
Fire-fighting class : no data available
Dust explosion class : no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on : Ambient / 10-30°C (50 -85°F)

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| storage conditions | Dry, well ventilated, preferably full, hermetically sealed |
| Advice on common storage | : Protect against light. |
| Storage class (TRGS 510) | : 10 Combustible liquids |
| Other data | : No decomposition if stored and applied as directed. |

7.3 Specific end use(s)

Specific use(s) : no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Exposure assessment: Exposures are dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the prod-uct's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional PPE. The PPE indicated below are recommendations for worst-case scenario exposures. An exposure assessment will identify more applicable measures to be implemented. EN and ANSI standards are mentioned in the following recommendations, consult equivalent local standards when required.

PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained on the use of PPE.

8.2.1 Engineering measures

Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use the product only with adequate ventilation.

8.2.2 Personal protective equipment

| | |
|---------------------|--|
| Eye/face protection | : Use safety goggles and faceshield tested according to EN 166/ ANSI Z87.1 or equivalent local standard. |
| Hand protection | : Use gloves when handling substance in open systems. Inspect gloves prior to use. Train operators for proper use.If only incidental exposure is expected: (work without direct |

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contact to substance) use gloves tested according EN 16523-1/ASTM F739 or equivalent local standard breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3 of this SDS. Change gloves frequently.

If direct skin contact is expected: use gloves tested according to EN 16523-1/ASTM F739 or equivalent local standard, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.

Other skin protection

: Wear working clothes covering arms and legs.
The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace. Use apron and sleeve covers or complete chemical suit if exposure is expected.

Respiratory protection

: Respiratory protection should be worn when workplace exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse effects, including but not limited to respiratory irritation or odor, or where indicated by the exposure assessment. Selection of air-purifying or positive-pressure supplied-air will depend on the results of the exposure assessment which includes an evaluation of the specific operations and the potential airborne concentrations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

In case a risk analysis proved the cartridge respirator as acceptable, use type:
ABEK-P3 (EN 14387) OR Combination Multi-gas/P100 (42CFR84.193; ANSI Z88.7 or equivalent local standard) as a backup to engineering controls.

In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU) or NIOSH 42 CFR 84(US).

Thermal hazards

: Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

: Remove contaminated clothing and protective equipment before entering eating areas.
Do not eat, drink or smoke during work.
Wash hands any time after handling the product.

8.2.3 Environmental exposure controls

General advice

: Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform

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respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : liquid |
| Form | : liquid |
| Colour | : colorless to Pale yellow |
| Taste | : not determined |
| Odour | : Citrus-like, Aldehydic |
| Odour Threshold | : Not applicable |
| Flash point | : 77 °C Method: Grabner miniflash closed cup |
| Lower explosion limit | : not determined |
| Upper explosion limit | : not determined |
| Flammability | : Not applicable |
| Particle size | : no data available |
| Oxidizing properties | : no data available |
| Auto-ignition temperature | : not determined |
| Decomposition temperature | : no data available |
| pH | : not determined |
| Vapour pressure | : 0,187 hPa at 20 °C Calculated (99,9 %) |
| Density | : 938,30 kg/m3 at 20 °C |
| Bulk density | : Not applicable |
| Water solubility | : not determined |
| Solubility/qualitative | : practically insoluble |
| Partition coefficient: n-octanol/water | : Not applicable |
| Viscosity, kinematic | : no data available |
| Relative vapour density | : no data available |
| Evaporation rate | : no data available |
| Explosive properties | : no data available |

9.2 Other information

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

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10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

Thermal decomposition : no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate
Dose: > 2 000 mg/kg
Method: Calculation method

Acute oral toxicity

| | | |
|--|------------------------|----------------|
| 2,6-dimethyl-7-octen-2-ol | : LD50: 3 600 mg/kg | Species: Rat |
| (R)-p-mentha-1,8-diene | : LD50: 5 600 mg/kg | Species: Mouse |
| decanal | : LD50: > 33 320 mg/kg | Species: Rat |
| 2-hexyl-3-phenyl-2-propenal (trans & cis) | : LD50: 3 100 mg/kg | Species: Rat |
| geraniol | : LD50: 3 600 mg/kg | Species: Rat |
| linalool | : LD50: 2 790 mg/kg | Species: Rat |
| 3,7-dimethyl-6-octen-1-ol (= citronellol) | : LD50: 3 450 mg/kg | Species: Rat |
| 2-propenyl hexanoate (= Allyl hexanoate) | : LD50: 218 mg/kg | Species: Rat |

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3,7-dimethylnona-1,6-dien-3-ol (cis & trans) : LD50: > 5 000 mg/kg Species: Rat

citral : LD50: 4 960 mg/kg Species: Rat

3,7-dimethyl-2,6-octadienyl acetate (= geranyl acetate) : LD50: 6 330 mg/kg Species: Rat

3,7-dimethyloctan-3-ol : LD50: > 5 000 mg/kg Species: Rat

3,7-dimethyl-2,6-octadien-1-ol (= nerol) : LD50: 4 500 mg/kg Species: Rat

2-methyldecanal : LD50: > 5 000 mg/kg Species: Rat

2,4-dimethylcyclohex-3-ene-1-carbaldehyde : LD50: > 3 100 mg/kg Species: Rat

Undecanal : LD50: > 5 000 mg/kg Species: Rat

2-methylundecanal : LD50: > 5 000 mg/kg Species: Rat

dodecanal : LD50: > 23 100 mg/kg Species: Rat

3,7-dimethyl-6-octen-1-al (= citronellal) : LD50: 2 420 mg/kg Species: Rat

2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl- (= Eucalyptol) : LD50: 2 480 mg/kg Species: Rat

2-propenyl 2(3)-methylbutoxyacetate : LD50: 730 mg/kg Species: Rat

Acute inhalation toxicity : Acute toxicity estimate Exposure time: 4 h
Dose: > 20,00 mg/l
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate
Dose: > 2 000 mg/kg
Method: Calculation method

Acute dermal toxicity

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| | | |
|--|------------------------|-----------------|
| (R)-p-mentha-1,8-diene | : LD50: > 5 000 mg/kg | Species: Rabbit |
| decanal | : LD50: 4 173 mg/kg | Species: Rabbit |
| geraniol | : LD50: > 5 000 mg/kg | Species: Rabbit |
| 3,7-dimethyl-6-octen-1-ol (= citronellol) | : LD50: 2 650 mg/kg | Species: Rabbit |
| 2-propenyl hexanoate (= Allyl hexanoate) | : LD50: 300 mg/kg | Species: Rabbit |
| octanal | : LD50: > 5 000 mg/kg | Species: Rabbit |
| 3,7-dimethylnona-1,6-dien-3-ol (cis & trans) | : LD50: > 5 000 mg/kg | Species: Rabbit |
| citral | : LD50: 2 250 mg/kg | Species: Rabbit |
| 3,7-dimethyloctan-3-ol | : LD50: > 5 000 mg/kg | Species: Rabbit |
| 2-methyldecanal | : LD50: > 5 000 mg/kg | Species: Rabbit |
| 2,4-dimethylcyclohex-3-ene-1-carbaldehyde | : LD50: 5 000 mg/kg | Species: Rabbit |
| 2,6-bis(1,1-dimethylethyl)-4-methylphenol | : LD50: > 5 000 mg/kg | Species: Rabbit |
| Undecanal | : LD50: > 5 000 mg/kg | Species: Rabbit |
| 2-methylundecanal | : LD50: > 10 000 mg/kg | Species: Rabbit |

Acute toxicity (other routes of administration) : No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

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Eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation

Sensitisation : No data is available on the product itself.

Germ cell mutagenicity

Germ cell mutagenicity : No data is available on the product itself.

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Not classified due to lack of data.

Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure Aspiration hazard

Aspiration toxicity : No data is available on the product itself.

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

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levels of 0.1% or higher.

Further information

Product:

Remarks : no data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

alpha-hexylcinnamaldehyde:

M-Factor (Acute aquatic toxicity) : 1

allyl hexanoate:

M-Factor (Acute aquatic toxicity) : 1

2,6-di-tert-butyl-p-cresol:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

undecanal:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

2-methylundecanal:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

dodecanenitrile:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

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toxicity)

allyl (2-methylbutoxy)acetate:

M-Factor (Acute aquatic toxicity) : 1

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Send to a licensed waste management company.
Dispose of in accordance with local, state and federal regulations.
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with

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chemical or used container.

Contaminated packaging : Do not expose containers to high temperatures such as in hot work processes.
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(EXTRACTS, LIQUID)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(EXTRACTS, LIQUID)
IATA : Environmentally hazardous substance, liquid, n.o.s.
(Extracts, liquid)

14.3 Transport hazard class(es)

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR : III
IMDG : III
IATA : III

14.5 Environmental hazards

ADR
Environmentally hazardous : yes
IMDG

Administrative information:

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Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

ADR

Tunnel restriction code : (-)

IMDG

IMDG Code Segregation : None
Group

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Major Accident Hazard : ENVIRONMENTAL HAZARDS
Legislation E2
Quantity 1: 200 t
Quantity 2: 500 t

Water hazard class : WGK 2 obviously hazardous to water
(Germany) Classification according to AwSV, Annex 1 (5.2)

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.
H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H311 : Toxic in contact with skin.
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.

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H330 : Fatal if inhaled.
H336 : May cause drowsiness or dizziness.
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.
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.

Full list of Emergency response numbers worldwide.

| | Country | Phone nr | | Country | Phone nr |
|--------------------|-------------------------|----------------------------------|-------|--------------------------|-----------------------------------|
| Europe | All Europe | +44 1235 239670 | APAC | All East/South East Asia | +65 3158 1074 |
| | France | +33 1 72 11 00 03 | | Sri Lanka | +65 3158 1195 |
| | Germany | +49 89 220 61012 | | Taiwan | +886 2 8793 3212 |
| | Spain | +34 91 114 2520 | | Japan | 0120 015 230 |
| | Italy | 800 699 792 | | Indonesia | 007 803 011 0293 |
| | Netherlands | +31 10 713 8195 | | Malaysia | +60 3 6207 4347 |
| | Turkey | 0800 621 2139 +44 1235 239670 | | Thailand | 001 800 120 666 751 |
| | Norway | +47 2103 4452 | | India | +65 3158 1198 000 800 100 7479 |
| | Greece | +30 21 1198 3182 | | Pakistan | +65 3158 1329 |
| | Portugal | +351 30880 4750 | | Bangladesh | +65 3158 1200 |
| | Denmark | +45 8988 2286 | | Philippines | +63 2 8231 2149 |
| | Sweden | +46 8 566 42573 | | Vietnam | +84 28 4458 2388 |
| | Poland | +48 22 307 3690 | | Korea | +65 3158 1285 |
| | Czech republic | +420 228 882 830 | | South Korea | +82 2 3479 8401 |
| | Finland | +358 9 7479 0199 | | Australia | +61 2 8014 4558 |
| Middle East/Africa | All Middle East/Africa | +44 1235 239671 | LATAM | New Zealand | +64 9 929 1483 |
| | Bahrain and Middle East | +44 1235 239671 | | China | +86 532 8388 9090 |
| | Africa/South Africa | +27 21 300 2732 | | Mexico | +52 55 5004 8763 |
| NOAM | USA and Canada | +1 866 928 0789 | | Brazil | +55 11 3197 5891 |
| | USA and Canada | +1 215 207 0061 | | Chile | +56 2 2582 9336 |
| | USA and Canada | +1 202 464 2554 | | Colombia | +57 1 508 7337 |
| Global | Global | +44 1865 407333 | | Argentina | +54 11 5984 3690 |

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Information displayed in section 3 (Composition/information on ingredients) is additional information to understand the hazards of the product and ensure safe handling, storage and transportation. This information, including CAS numbers, is not meant to be used for registration, notification or any other purposes. Any additional information and documentation needed may be provided by Givaudan.

Prepared by

Name Surname: Esra Kurtoğlu

Contact Information: esra.purcek@givaudan.com

Certification Number: KDU-A-0-0250

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