

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# Givaudan

## RD//TUBEROSE & MOROCCAN AMBER

Version 3.0

Revision Date 10 AUG 2023

Print Date 10 AUG 2023

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Sales No. MOROCCAN AMBER

#### 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 Fragrances (Guangzhou) Ltd.  
East Section of GETDD  
No.66, Hongjing Road  
GUANGZHOU  
510760 GUANGDONG  
CHINA

Telephone : +862062985000

Telefax : +862062985010

E-mail address :

Responsible/issuing person

#### 1.4 Emergency Call

Givaudan 24/7 call : +8653283889090

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 (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

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.

#### Administrative information:

Report Information: SDS\_EU/EN/GHS\_SDS\_EU\_REGION/38

Sales & Distribution Information: GZ03/FR/CN13/01

Shipping Order Information: 27 648 998/23 172 888

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H411

Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements :

EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary statements :

**Prevention:**

P261

Avoid breathing mist or vapours.

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331

Do NOT induce vomiting.

P391

Collect spillage.

Hazardous components which must be listed on the label:

- Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha 64742-48-9
- linalool 78-70-6
- 2-hexyl-3-phenyl-2-propenal (trans & cis) 101-86-0
- 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphtalene (main isomer) 54464-57-2
- hexyl 2-hydroxybenzoate 6259-76-3
- benzyl salicylate 118-58-1
- 3-(3,4-Methylene dioxyphenyl)-2-methylpropanal 1205-17-0
- 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) 97-53-0
- 3,7-dimethyl-6-octen-1-ol (= 106-22-9

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- citronellol)
- 2,2,6-trimethyl-alpha-propylcyclohexanepropanol 70788-30-6
- 3-(4-isobutyl-2-methylphenyl)propanal 1637294-12-2
- 4-tert-butylcyclohexyl acetate 32210-23-4
- cis-3-hexenyl benzoate 25152-85-6
- isoeugenol 97-54-1
- methyl 2-nonynoate 111-80-8

**2.3 Other hazards**

Hazards not Otherwise : None  
Classified.

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.<br>EC-No.<br>Registration<br>number                              | Classification<br>(REGULATION<br>(EC) No<br>1272/2008) | Concentration<br>[Percent by<br>weight] |
|--|--|--|---|
| Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha | 64742-48-9<br>90622-58-5<br>246538-78-3<br>920-901-0<br>01-2119456810-40 | Asp. Tox. 1; H304<br>EUH066                            | >= 5 - < 10                             |
| tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)            | 63500-71-0<br>405-040-6<br>01-0000015458-64                              | Eye Irrit. 2; H319<br><br>Acute toxicity<br>estimate   | >= 5 - < 10                             |

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|  |  | Acute oral toxicity:<br>> 5 000,00 mg/kg  |              |
| linalool   | 78-70-6<br>201-134-4<br>01-2119474016-42                 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1B;<br>H317<br><br>Acute toxicity<br>estimate<br><br>Acute oral toxicity:<br>2 790,00 mg/kg   | >= 5 - < 10  |
| 2-hexyl-3-phenyl-2-propenal (trans & cis)  | 101-86-0<br>165184-98-5<br>639-566-4<br>01-2119533092-50 | Skin Sens. 1B;<br>H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411<br><br>M-Factor (Acute<br>aquatic toxicity): 1<br><br>Acute toxicity<br>estimate<br><br>Acute oral toxicity:<br>3 100,00 mg/kg | >= 2,5 - < 5 |
| 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer) | 54464-57-2<br>915-730-3<br>01-2119489989-04              | Skin Irrit. 2; H315<br>Skin Sens. 1B;<br>H317<br>Aquatic Chronic 2;<br>H411<br><br>Acute toxicity<br>estimate<br><br>Acute oral toxicity:<br>> 5 000,00 mg/kg<br>Acute dermal<br>toxicity: > 5 000,00<br>mg/kg  | >= 2,5 - < 5 |
| hexyl 2-hydroxybenzoate  | 6259-76-3<br>228-408-6<br>01-2119638275-36               | Skin Sens. 1B;<br>H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute   | >= 2,5 - < 5 |

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|  |  | aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: > 5 000,00 mg/kg<br>Acute dermal toxicity: > 5 000,00 mg/kg    |              |
| Benzyl acetate                                 | 140-11-4<br>205-399-7<br>01-2119638272-42  | Aquatic Chronic 3; H412<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: 2 490,00 mg/kg  | >= 2,5 - < 5 |
| benzyl salicylate                              | 118-58-1<br>204-262-9<br>01-2119969442-31  | Eye Irrit. 2; H319<br>Skin Sens. 1B; H317<br>Aquatic Chronic 3; H412<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: 2 227,00 mg/kg<br>Acute dermal toxicity: 14 150,00 mg/kg | >= 1 - < 2,5 |
| 3-(3,4-Methylene dioxyphenyl)-2-methylpropanal | 1205-17-0<br>214-881-6<br>01-2120740119-58 | Skin Sens. 1B; H317<br>Repr. 2; H361<br>Aquatic Chronic 2; H411<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: 3 561,00 mg/kg  | >= 1 - < 2,5 |
| 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol)   | 97-53-0<br>202-589-1<br>01-2119971802-33   | Eye Irrit. 2; H319<br>Skin Sens. 1B; H317  | >= 0,1 - < 1 |

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|   |   | <hr/> Acute toxicity estimate<br><br>Acute oral toxicity:<br>2 130,00 mg/kg  |               |
| cis-3-hexenyl 2-hydroxybenzoate           | 65405-77-8<br>265-745-8<br>01-2119987320-37 | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411<br><br><hr/> M-Factor (Acute aquatic toxicity): 1<br><br><hr/> Acute toxicity estimate<br><br>Acute oral toxicity:<br>> 5 000,00 mg/kg<br>Acute dermal toxicity: > 5 000,00 mg/kg | >= 0,25 - < 1 |
| 3,7-dimethyl-6-octen-1-ol (= citronellol) | 106-22-9<br>203-375-0<br>01-2119453995-23   | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1B;<br>H317<br><br><hr/> Acute toxicity estimate<br><br>Acute oral toxicity:<br>3 450,00 mg/kg<br>Acute dermal toxicity: 2 650,00 mg/kg  | >= 0,1 - < 1  |
| benzyl benzoate                           | 120-51-4<br>204-402-9<br>01-2119976371-33   | Acute Tox. 4; H302<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411<br><br><hr/> M-Factor (Acute aquatic toxicity): 1<br><br><hr/> Acute toxicity estimate<br><br>Acute oral toxicity:<br>2 000,00 mg/kg                        | >= 0,25 - < 1 |

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|   |   | Acute dermal toxicity: 4 000,00 mg/kg  |                 |
| 2,2,6-trimethyl-alpha-propylcyclohexanepropanol | 70788-30-6<br>947-716-8<br>01-2120768938-30   | Skin Sens. 1B;<br>H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: > 5 000,00 mg/kg | >= 0,25 - < 1   |
| 3-(4-isobutyl-2-methylphenyl)propanal           | 1637294-12-2<br>811-285-3<br>01-2120103156-71 | Acute Tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1B;<br>H317<br>Aquatic Chronic 2;<br>H411  | >= 0,1 - < 0,25 |
| 4-tert-butylcyclohexyl acetate                  | 32210-23-4<br>250-954-9<br>01-2119976286-24   | Skin Sens. 1B;<br>H317<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: 3 370 mg/kg<br>Acute dermal toxicity: > 5 000,00 mg/kg   | >= 0,1 - < 1    |
| 2,6-bis(1,1-dimethylethyl)-4-methylphenol       | 128-37-0<br>204-881-4<br>01-2119565113-46     | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1   | >= 0,1 - < 0,25 |

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|                        |   | <hr/> Acute toxicity estimate<br><br>Acute dermal toxicity: > 5 000,00 mg/kg   |                 |
| 4-Methyl-3-decen-5-ol  | 81782-77-6<br>701-429-2<br>01-2119983528-21           | <hr/> Aquatic Acute 1; H400<br>Aquatic Chronic 2; H411<br><br><hr/> M-Factor (Acute aquatic toxicity): 1<br><br><hr/> Acute toxicity estimate<br><br>Acute oral toxicity: > 8 000,00 mg/kg | >= 0,1 - < 0,25 |
| 2,3-benzopyrole        | 120-72-9<br>204-420-7<br>01-2120745892-45             | <hr/> Acute Tox. 4; H302<br>Acute Tox. 3; H311<br>Eye Dam. 1; H318<br><br><hr/> Acute toxicity estimate<br><br>Acute oral toxicity: 1 000,00 mg/kg<br>Acute dermal toxicity: 790,00 mg/kg  | >= 0,1 - < 1    |
| cis-3-hexenyl benzoate | 25152-85-6<br>246-669-4<br>01-2120525150-73           | <hr/> Skin Sens. 1B; H317<br>Aquatic Chronic 2; H411<br><br><hr/> Acute toxicity estimate<br><br>Acute dermal toxicity: > 5 000,00 mg/kg   | >= 0,1 - < 0,25 |
| isoeugenol             | 97-54-1<br>5932-68-3<br>202-590-7<br>01-2120223682-61 | <hr/> Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1A;  | >= 0,02 - < 0,1 |

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|                    |   | H317<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific<br>concentration limit<br>Skin Sens. 1A;<br>H317<br>$\geq 0,01 \%$<br><br>Acute toxicity<br>estimate<br><br>Acute oral toxicity:<br>1 560,00 mg/kg<br>Acute dermal<br>toxicity: 1 770,00<br>mg/kg   |                        |
| alpha cedrene      | 469-61-4<br>207-418-4                     | Skin Irrit. 2; H315<br>Asp. Tox. 1; H304<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 10<br><br>Acute toxicity<br>estimate<br><br>Acute oral toxicity:<br>$> 5\,000,00$ mg/kg<br>Acute dermal<br>toxicity: $> 5\,000,00$<br>mg/kg | $\geq 0,025 - < 0,1$   |
| methyl 2-nonynoate | 111-80-8<br>203-909-2<br>01-2120139912-55 | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Skin Sens. 1A;<br>H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 3;<br>H412   | $\geq 0,0025 - < 0,02$ |

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|  |  | M-Factor (Acute aquatic toxicity): 1 |  |
|  |  | Acute toxicity estimate              |  |
|  |  | Acute oral toxicity: 1 180 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 : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
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.
- In case of eye contact : Remove contact lenses.  
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available
- Risks : May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Repeated exposure may cause skin dryness or cracking.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : no data available

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### SECTION 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Water spray

Unsuitable extinguishing media : no data available

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : 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 : 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 : no data available

#### 6.2 Environmental precautions

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 : 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

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### SECTION 7. Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : 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.  
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 storage conditions : Ambient / 10-30°C (50-85°F)  
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

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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 product'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 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   |

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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 respective authorities.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Form : Clear liquid
- Colour : Pale yellow to yellow
- Taste : not determined
- Odour : Floral
- Odour Threshold : Not applicable
- Flash point : 65 °C Method: Grabner miniflash closed cup
- Lower explosion limit : not determined
- Upper explosion limit : not determined
- Flammability : Not applicable
- Particle size : no data available

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|  |   |
|--|---|
| Oxidizing properties                   | : no data available                       |
| Auto-ignition temperature              | : not determined                          |
| Decomposition temperature              | : no data available                       |
| pH                                     | : not determined                          |
| Vapour pressure                        | : 0,1643 hPa at 20 °C Calculated (99,8 %) |
| Density                                | : 852,46 kg/m3 at 20 °C                   |
| Bulk density                           | : Not applicable                          |
| Water solubility                       | : not determined                          |
| Solubility/qualitative                 | : not determined                          |
| 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

none

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Conditions to avoid : no data available

### 10.5 Incompatible materials

Materials to avoid : no data available

### 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

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**Acute toxicity****Acute oral toxicity** : No data is available on the product itself.**Acute oral toxicity**

tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) : LD50: &gt; 5 000 mg/kg Species: Rat

linalool : LD50: 2 790 mg/kg Species: Rat

2-hexyl-3-phenyl-2-propenal (trans &amp; cis) : LD50: 3 100 mg/kg Species: Rat

2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer) : LD50: &gt; 5 000 mg/kg Species: Rat

hexyl 2-hydroxybenzoate : LD50: &gt; 5 000 mg/kg Species: Rat

Benzyl acetate : LD50: 2 490 mg/kg Species: Rat

benzyl salicylate : LD50: 2 227 mg/kg Species: Rat

3-(3,4-Methylene dioxypheyl)-2-methylpropanal : LD50: 3 561 mg/kg Species: Rat

2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) : LD50: 2 130 mg/kg Species: Guinea pig

cis-3-hexenyl 2-hydroxybenzoate : LD50: &gt; 5 000 mg/kg Species: Rat

3,7-dimethyl-6-octen-1-ol (= citronellol) : LD50: 3 450 mg/kg Species: Rat

benzyl benzoate : LD50: 2 000 mg/kg Species: Rat

2,2,6-trimethyl-alpha-propylcyclohexanepropanol : LD50: &gt; 5 000 mg/kg Species: Rat

4-tert-butylcyclohexyl acetate : LD50: 3 370 mg/kg Species: Rat

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|--|--|-----------------|
| 4-Methyl-3-decen-5-ol  | : LD50: > 8 000 mg/kg  | Species: Rat    |
| 2,3-benzopyrole  | : LD50: 1 000 mg/kg  | Species: Rat    |
| isoeugenol   | : LD50: 1 560 mg/kg  | Species: Rat    |
| alpha cedrene  | : LD50: > 5 000 mg/kg  | Species: Rat    |
| methyl 2-nonynoate   | : LD50: 1 180 mg/kg  | Species: Rat    |
| <b>Acute inhalation toxicity</b>   | : No data is available on the product itself.                                  |                 |
| <b>Acute dermal toxicity</b>   | : Acute toxicity estimate<br>Dose: > 2 000 mg/kg<br>Method: Calculation method |                 |
| <b>Acute dermal toxicity</b><br>2-acetyl-1,2,3,4,5,6,7,8-<br>octahydro-2,3,8,8-tetra-<br>methylnaphtalene (main<br>isomer) | : LD50: > 5 000 mg/kg  | Species: Rabbit |
| hexyl 2-hydroxybenzoate  | : LD50: > 5 000 mg/kg  | Species: Rabbit |
| benzyl salicylate  | : LD50: 14 150 mg/kg   | Species: Rabbit |
| cis-3-hexenyl 2-<br>hydroxybenzoate  | : LD50: > 5 000 mg/kg  | Species: Rabbit |
| 3,7-dimethyl-6-octen-1-ol (= citronellol)  | : LD50: 2 650 mg/kg  | Species: Rabbit |
| benzyl benzoate  | : LD50: 4 000 mg/kg  | Species: Rabbit |
| 4-tert-butylcyclohexyl acetate   | : LD50: > 5 000 mg/kg  | Species: Rabbit |
| 2,6-bis(1,1-dimethylethyl)-4-methylphenol  | : LD50: > 5 000 mg/kg  | Species: Rabbit |

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2,3-benzopyrole : LD50: 790 mg/kg Species: Rabbit

cis-3-hexenyl benzoate : LD50: > 5 000 mg/kg Species: Rabbit

isoeugenol : LD50: 1 770 mg/kg Species: Rabbit

alpha cedrene : LD50: > 5 000 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**

Eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

### **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 based on available information.

### **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 : No data is available on the product itself.

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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

: Solvents may degrease the skin.

## 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 levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

## SECTION 12. Ecological information

### 12.1 Toxicity

#### Components:

##### **alpha-hexylcinnamaldehyde:**

M-Factor (Acute aquatic toxicity) : 1

##### **hexyl salicylate:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

##### **(Z)-3-hexenyl salicylate:**

M-Factor (Acute aquatic toxicity) : 1

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toxicity)

### benzyl benzoate:

M-Factor (Acute aquatic toxicity) : 1

### 2,2,6-trimethyl-alpha-propylcyclohexanepropanol:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

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

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### 4-methyl-3-decen-5-ol:

M-Factor (Acute aquatic toxicity) : 1

### [3R-(3alpha,3abeta,7beta,8aalpha)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

### methyl non-2-ynoate:

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:

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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 : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : 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

RID : UN 3082

IMDG : UN 3082

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**IATA** : UN 3082**14.2 UN proper shipping name****ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Hexyl salicylate, alpha-Cedrene)**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Hexyl salicylate, alpha-Cedrene)**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Hexyl salicylate, alpha-Cedrene)**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Hexyl salicylate, alpha-Cedrene)**14.3 Transport hazard class(es)****ADR** : 9**RID** : 9**IMDG** : 9**IATA** : 9**14.4 Packing group****ADR** : III**RID** : III**IMDG** : III**IATA** : III**14.5 Environmental hazards****ADR**  
Environmentally hazardous : yes**RID**  
Environmentally hazardous : yes**IMDG**  
Marine pollutant : yes**IATA (Passenger)**  
Environmentally hazardous : yes**IATA (Cargo)**  
Environmentally hazardous : yes**14.6 Special precautions for user****ADR**

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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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Neither banned nor restricted

Major Accident Hazard : ENVIRONMENTAL HAZARDS  
Legislation E2

Quantity 1: 200 t

Quantity 2: 500 t

: Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

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Quantity 1: 2 500 t

Quantity 2: 25 000 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

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.

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- H317 : May cause an allergic skin reaction.  
 H318 : Causes serious eye damage.  
 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.  
 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.  
 EUH066 : Repeated exposure may cause skin dryness or cracking.

### 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<br>+44 1235 239670 |       | Thailand                 | 001 800 120 666 751               |
|                    | Norway                  | +47 2103 4452                    |       | India                    | +65 3158 1198<br>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                   |

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|        |                   |                 |  |           |                  |
|--------|-------------------|-----------------|--|-----------|------------------|
|        | USA and<br>Canada | +1 202 464 2554 |  | Colombia  | +57 1 508 7337   |
| Global | Global            | +44 1865 407333 |  | Argentina | +54 11 5984 3690 |

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### Key or legend to abbreviations and acronyms used in the safety data sheet

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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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.

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