

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# Givaudan

## YUZU ZEST ABJ7091N

Version 3.0

Revision Date 25 JAN 2023

Print Date 25 JAN 2023

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

#### 1.1 Product identifier

Sales No. : 21007193  
YUZU ZEST ABJ7091N

#### 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.msds\_fragrances\_raps@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 (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H226

Flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331

Do NOT induce vomiting.

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391

Collect spillage.

Hazardous components which must be listed on the label:

- (R)-p-mentha-1,8-diene 5989-27-5
- Tangor, Murcote, extract 8008-31-9
- hexyl 2-hydroxybenzoate 6259-76-3
- 2-hexyl-3-phenyl-2-propenal (trans & cis) 101-86-0
- 2-methyl-3-(4-isopropylphenyl)propanal 103-95-7
- Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene) 127-91-3
- Pelargonium graveolens, extract 8000-46-2
- Acetic acid, anhydride, reaction product 1,5,10-trimethyl-1,5,9-cyclododecatene 144020-22-4
- 2,4,6-trimethyl-3-cyclohexen-1-carbaldehyde (main component) 1335-66-6
- dodecanal 112-54-9

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- citral 5392-40-5
- Acetic acid, esters with turpentine-oil 69103-01-1  
myrcene fraction terpene alcs.
- 2,4-dimethylcyclohex-3-ene-1-carbaldehyde 68039-49-6
- 2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene) 80-56-8
- 3,7-Dimethyl-2,6-octadien-1-yl acetate(cis & trans isomers) 141-12-8

### 2.3 Other hazards

Hazards not Otherwise Classified.

: This material may have the potential to be ignited by static electricity during handling or processing. Use proper grounding techniques when handling this product to avoid electrostatic charges. A detailed static evaluation is recommended for liquid handling/processing operation to determine the potential for generating and accumulating static charge. Reference NFPA 77 "Recommended Practice on Static Electricity" for further safe handling practices. May cause phototoxicity.

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 (EC) No 1272/2008)	Concentration [Percent by weight]
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317	>= 25 - < 30

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		Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 <hr/> Acute toxicity estimate  Acute oral toxicity: 5 600,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	
Tangor, Murcote, extract	8008-31-9 93686-22-7 297-672-2 01-2120074120-72	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 <hr/> Acute toxicity estimate  Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	>= 10 - < 20
hexyl 2-hydroxybenzoate	6259-76-3 228-408-6 01-2119638275-36	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 <hr/> Acute toxicity estimate  Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	>= 2,5 - < 5
2-hexyl-3-phenyl-2-propenal (trans &	101-86-0	Skin Sens. 1B;	>= 2,5 - < 5

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cis)	165184-98-5 639-566-4 01-2119533092-50	H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411  M-Factor (Acute aquatic toxicity): 1  Acute toxicity estimate  Acute oral toxicity: 3 100,00 mg/kg	
Methyl 2-(Methylamino)Benzoate	85-91-6 201-642-6 01-2120736989-31	Aquatic Chronic 3; H412  Acute toxicity estimate  Acute oral toxicity: 2 250,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	>= 2,5 - < 5
2-tridecenitrile	22629-49-8 245-142-6	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10  Acute toxicity estimate  Acute oral toxicity: > 5 000,00 mg/kg	>= 2,5 - < 5
2,6-dimethyl-7-octen-2-ol	18479-58-8 242-362-4 01-2119457274-37	Skin Irrit. 2; H315 Eye Irrit. 2; H319  Acute toxicity estimate  Acute oral toxicity: 3 600,00 mg/kg	>= 1 - < 5
3-methyl-5-phenylpentanol	55066-48-3 259-461-3	Acute Tox. 4; H302	>= 1 - < 5

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	01-2119969446-23	Acute toxicity estimate  Acute oral toxicity: 1 830 mg/kg Acute dermal toxicity: 3 100,00 mg/kg	
2-methyl-3-(4-isopropylphenyl)propanal	103-95-7 203-161-7 01-2119970582-32	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 1 - < 2,5
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene)	127-91-3 204-872-5 01-2119519230-54	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1	>= 1 - < 2,5
2,4,6-trimethyl-3-cyclohexen-1-carbaldehyde (main component)	1335-66-6 215-638-7 01-2120120147-69	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute oral toxicity: 4 150,00 mg/kg	>= 1 - < 2,5
Pelargonium graveolens, extract	8000-46-2 90082-51-2 290-140-0	Skin Irrit. 2; H315 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 > 5 000,00 mg/kg	>= 1 - < 5

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naphthalene, 2-ethoxy-	93-18-5 202-226-7 01-2120176465-49	Skin Irrit. 2; H315 Aquatic Chronic 2; H411  Acute toxicity estimate  Acute oral toxicity: 3 110,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	>= 1 - < 2,5
Acetic acid, anhydride, reaction product 1,5,10-trimethyl-1,5,9- cyclododecatriene	144020-22-4 482-330-9 01-0000020172-83 01-2119430466-41	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 mg/kg	>= 1 - < 2,5
dodecanal	112-54-9 203-983-6 01-2119969441-33	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317  Acute toxicity estimate  Acute oral toxicity: > 23 100,00 mg/kg	>= 0,1 - < 1
citral	5392-40-5 226-394-6 01-2119462829-23	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	>= 0,1 - < 1

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		mg/kg	
Acetic acid, esters with turpentine-oil myrcene fraction terpene alcs.	69103-01-1 273-868-3 01-2120260055-65	Skin Sens. 1B; H317 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	>= 0,25 - < 1
7-methyl-3-methylene-1,6-octadiene (= myrcene)	123-35-3 204-622-5 01-2119514321-56	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 2; H411  M-Factor (Acute 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
2,4-dimethylcyclohex-3-ene-1- carbaldehyde	68039-49-6 943-728-2 01-2119982384-28	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
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2- ene (= alpha-pinene)	80-56-8 7785-70-8 201-291-9 232-087-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B;	>= 0,25 - < 1

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	01-2119519223-49	H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 <hr/> Acute toxicity estimate <hr/> Acute oral toxicity: > 500 - 2 000 mg/kg	
4-(hexahydro-1H-4,7-methanoinden-5(6H)-ylidene)butanal	30168-23-1 250-078-7 01-2120737968-34	Acute Tox. 4; H332 Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 <hr/> Acute toxicity estimate <hr/> Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	>= 0,25 - < 1
3,7-Dimethyl-2,6-octadien-1-yl acetate(cis & trans isomers)	141-12-8 205-459-2 01-2120748334-54	Skin Sens. 1B; H317 <hr/> Acute toxicity estimate <hr/> Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	>= 0,1 - < 1

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

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

- |                         |  |
|-------------------------|--|
| General advice          | : Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Symptoms of poisoning may appear several hours later.<br>Do not leave the victim unattended.                |
| If inhaled              | : Move to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.   |
| In case of eye contact  | : Remove contact lenses.<br>Immediately flush eyes for at least 15 minutes. Get medical attention.   |
| If swallowed            | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Take victim immediately to hospital. |

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

- |          |                     |
|----------|---------------------|
| Symptoms | : no data available |
| Risks    | : no data available |

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

- |           |                     |
|-----------|---------------------|
| Treatment | : no data available |
|-----------|---------------------|

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media

- |                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Dry chemical<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Water spray |
| Unsuitable extinguishing media | : High volume water jet  |

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### 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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

Not applicable

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
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.

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Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

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 : No smoking.  
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) : 3 Flammable 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 product's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or

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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 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 to 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. Use antistatic clothes when flammable liquids are handled. (EN 1149-5; ASTM F1505/ASTM STP1273 or equivalent local standard).
- 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

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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 : liquid  
Colour : Pale yellow to yellow  
Taste : not determined  
Odour : fruity  
Odour Threshold : Not applicable  
Flash point : 58 °C Method: Grabner miniflash closed cup  
Lower explosion limit : not determined  
Upper explosion limit : not determined  
Flammability : Not applicable  
Oxidizing properties : no data available  
Auto-ignition temperature : not determined  
Decomposition temperature : no data available  
pH : not determined  
Melting point : not determined

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Boiling point	: not determined
Vapour pressure	: 0,5763 hPa at 20 °C Calculated (99,9 %)
Density	: 922,33 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

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. Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 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

#### Acute toxicity

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<b>Acute oral toxicity</b>	: Acute toxicity estimate Dose: > 2 000 mg/kg Method: Calculation method	
<b>Acute oral toxicity</b> (R)-p-mentha-1,8-diene	: LD50: 5 600 mg/kg	Species: Mouse
Tangor, Murcote, extract	: LD50: > 5 000 mg/kg	Species: Rat
hexyl 2-hydroxybenzoate	: LD50: > 5 000 mg/kg	Species: Rat
2-hexyl-3-phenyl-2-propenal (trans & cis)	: LD50: 3 100 mg/kg	Species: Rat
Methyl 2- (Methylamino)Benzoate	: LD50: 2 250 mg/kg	Species: Rat
2-tridecenitrile	: LD50: > 5 000 mg/kg	Species: Rat
2,6-dimethyl-7-octen-2-ol	: LD50: 3 600 mg/kg	Species: Rat
3-methyl-5-phenylpentanol	: LD50: 1 830 mg/kg	Species: Rat
2,4,6-trimethyl-3-cyclohexen- 1-carbaldehyde (main component)	: LD50: 4 150 mg/kg	Species: Rat
Pelargonium graveolens, extract	: LD50: > 5 000 mg/kg	Species: Rat
naphthalene, 2-ethoxy-	: LD50: 3 110 mg/kg	Species: Rat
Acetic acid, anhydride, reaction product 1,5,10- trimethyl-1,5,9- cyclododecatriene	: LD50: > 5 000 mg/kg	Species: Rat
dodecanal	: LD50: > 23 100 mg/kg	Species: Rat
citral	: LD50: 4 960 mg/kg	Species: Rat

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Acetic acid, esters with turpentine-oil myrcene fraction terpene alcs.	: LD50: > 5 000 mg/kg	Species: Rat
7-methyl-3-methylene-1,6- octadiene (= myrcene)	: LD50: > 5 000 mg/kg	Species: Rat
2,4-dimethylcyclohex-3-ene- 1-carbaldehyde	: LD50: > 3 100 mg/kg	Species: Rat
2,6,6-trimethyl- Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	: LD50: > 500 - 2 000 mg/kg	Species: Rat
4-(hexahydro-1H-4,7- methanoinden-5(6H)- ylidene)butanal	: LD50: > 5 000 mg/kg	Species: Rat
3,7-Dimethyl-2,6-octadien-1- yl acetate(cis & trans isomers)	: LD50: > 5 000 mg/kg	Species: Rat
<b>Acute inhalation toxicity</b>	: No data is available on the product itself.	
<b>Acute dermal toxicity</b>	: No data is available on the product itself.	
<b>Acute dermal toxicity</b> (R)-p-mentha-1,8-diene	: LD50: > 5 000 mg/kg	Species: Rabbit
Tangor, Murcote, extract	: LD50: > 5 000 mg/kg	Species: Rabbit
hexyl 2-hydroxybenzoate	: LD50: > 5 000 mg/kg	Species: Rabbit
Methyl 2- (Methylamino)Benzoate	: LD50: > 5 000 mg/kg	Species: Rabbit
3-methyl-5-phenylpentanol	: LD50: 3 100 mg/kg	Species: Rabbit
Pelargonium graveolens, extract	: LD50: > 5 000 mg/kg	Species: Rabbit
	LD50: > 5 000 mg/kg	Species: Guinea pig
naphthalene, 2-ethoxy-	: LD50: > 5 000 mg/kg	Species: Rabbit

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citral : LD50: 2 250 mg/kg Species: Rabbit

Acetic acid, esters with  
turpentine-oil myrcene  
fraction terpene alcs. : LD50: > 5 000 mg/kg Species: Rabbit

7-methyl-3-methylene-1,6-  
octadiene (= myrcene) : LD50: > 5 000 mg/kg Species: Rabbit

2,4-dimethylcyclohex-3-ene-  
1-carbaldehyde : LD50: 5 000 mg/kg Species: Rabbit

4-(hexahydro-1H-4,7-  
methanoinden-5(6H)-  
ylidene)butanal : LD50: > 5 000 mg/kg Species: Rabbit

3,7-Dimethyl-2,6-octadien-1-  
yl acetate(cis & trans  
isomers) : 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** : No data is available on the product itself.

### Target Organ Systemic Toxicant - Single exposure

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

### Target Organ Systemic Toxicant - Repeated exposure

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

### 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** : 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:

#### hexyl salicylate:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

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### **alpha-hexylcinnamaldehyde:**

M-Factor (Acute aquatic toxicity) : 1

### **tridec-2-enenitrile:**

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

### **pin-2(10)-ene:**

M-Factor (Acute aquatic toxicity) : 1

### **Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### **7-methyl-3-methyleneocta-1,6-diene:**

M-Factor (Acute aquatic toxicity) : 1

### **pin-2(3)-ene:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### **4-(tricyclo[5.2.1.0<sup>2,6</sup>]dec-8-ylidene)butyraldehyde:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic 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

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## 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.  
Very 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.  
Do not burn, or use a cutting torch on, the empty drum.

Dispose of in accordance with local regulations.

## SECTION 14. Transport information

### 14.1 UN number

ADR : UN 1169

RID : UN 1169

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**IMDG** : UN 1169**IATA** : UN 1169**14.2 UN proper shipping name****ADR** : EXTRACTS, AROMATIC, LIQUID**RID** : EXTRACTS, AROMATIC, LIQUID**IMDG** : EXTRACTS, AROMATIC, LIQUID  
(2-Tridecenenitrile, Methyl isopropenyl cyclohexene)**IATA** : Extracts, aromatic, liquid**14.3 Transport hazard class(es)****ADR** : 3**RID** : 3**IMDG** : 3**IATA** : 3**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**14.6 Special precautions for user****ADR**  
Tunnel restriction code : (D/E)**IMDG**  
IMDG Code Segregation : None  
Group**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

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**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 Legislation : ENVIRONMENTAL HAZARDS  
E1

Quantity 1: 100 t

Quantity 2: 200 t

: FLAMMABLE LIQUIDS

P5c

Quantity 1: 5 000 t

Quantity 2: 50 000 t

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
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.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
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

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	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
				New Zealand	+64 9 929 1483
Middle East/Africa	All Middle East/Africa	+44 1235 239671	LATAM	China	+86 532 8388 9090
	Bahrain and Middle East	+44 1235 239671		Mexico	+52 55 5004 8763
	Africa/South Africa	+27 21 300 2732		Brazil	+55 11 3197 5891
NOAM	USA and Canada	+1 866 928 0789		Chile	+56 2 2582 9336
	USA and Canada	+1 215 207 0061		Colombia	+57 1 508 7337
	USA and Canada	+1 202 464 2554		Argentina	+54 11 5984 3690
Global	Global	+44 1865 407333			

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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; AIC - 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.

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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