

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: Car Air Freshener-Cherry

Print date: 21.08.2024

Version 2.0

Issue Date: 21.08.2024

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

### 1.1 Product identifier

Product name : Car Air Freshener-Cherry

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

Use of the Substance/Mixture : Car air freshener

### 1.3 Details of the supplier of the safety data sheet

Company : FRSH SCENTS LIMITED

Address : Unit 04-05, 16th Floor, The Broadway No. 54 62 Lockhart Road, Wanchai, Hong Kong

Telephone : +86 769 88288882

E-mail address : venus@frshscentschina.com

UK Importer : JRP Distribution Ltd | PO20 2FT | Tel:+44 (0)1903 750355

EU Representative : Simply Brands Deutschland GmbH. Ernst-August-Platz 10, 30159 Hanover

### 1.4 Emergency telephone number

Emergency telephone number : ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 and amendment (EU) 2024/197  
Skin Sens. 1B H317

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



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*Signal word:* Warning

*Hazard statements:*

H317 May cause an allergic skin reaction

*Precautionary statements:*

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P321 Specific treatment (see section 4 on this SDS).  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

*Supplemental Hazard information (EU): Not applicable.*

*Derogations from labelling requirements*

*Hazard pictograms*



*Signal word:* Warning

*Hazard statements:*

H317 May cause an allergic skin reaction

*Precautionary statements:*

P102 Keep out of reach of children.  
P103 Read label before use.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

## 2.3 Other hazards

This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

### Endocrine disrupting properties

Environment : 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.

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Human Health : 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

### 3.1 Substances

Not applicable

### 3.2 Mixtures

CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008 and amendment (EU) 2024/197
CASRN 40379-24-6 EC-No. 254-898-6 Index-No. -	-	45-55%	Isononyl acetate	Not classified  Acute toxicity estimate Acute oral toxicity: LD50, rat, 4250 mg/kg Acute inhalation toxicity: LC50, rat, 6h, > 8 000 000 mg/m <sup>3</sup> air Acute dermal toxicity LD50, rabbits, >5000 mg/kg bw
CASRN 100-52-7 EC-No. 202-860-4 Index-No. 605-012-00-5	-	5-15%	Benzaldehyde	Acute Tox. 4, H302  Acute toxicity estimate Acute oral toxicity: LD50, Rat, 1430 mg/kg bw, OECD guideline 401 Acute inhalation toxicity: LC50, rat, 4h, 1.0 – 5 mg/L Acute dermal toxicity LD50, rabbit, >2,000 mg/kg bw.
CASRN 34590-94-8 EC-No. 252-104-2 Index-No. -	-	5-15%	(2-methoxymethylethoxy)propanol	Not classified  Acute toxicity estimate Acute oral toxicity: LD50, rat, > 5 000 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC0, rat, 7h, > 275 ppm Acute dermal toxicity LD50, rabbit, >2000 mg/kg bw

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<p>CASRN 104-67-6 EC-No. 203-225-4 Index-No. -</p>	-	1-5%	Undecan-4-olide	<p>Not classified</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, 18 500 mg/kg bw Acute inhalation toxicity: LC50, rat, &gt;20 mg/L air, estimated Acute dermal toxicity LD50, rat, &gt; 2 000 mg/kg bw</p>
<p>CASRN 121-33-5 EC-No. 204-465-2 Index-No. -</p>	-	1-5%	Vanillin	<p>Eye Irrit. 2, H319</p> <p>Acute toxicity estimate Acute oral toxicity: Category 5 based on GHS criteria LD50, rat, ca. 3 978 mg/kg bw, EU Method B.1 Acute inhalation toxicity: GHS criteria not met LC50, rat, 4h, &gt;41 mg/m3 Acute dermal toxicity LD50, rat, &gt;2000 mg/kg bw, OECD Guideline 402</p>
<p>CASRN 104-20-1 EC-No. 203-184-2 Index-No. -</p>	-	1-5%	4-(4-methoxyphenyl)butan-2-one	<p>Not classified</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, &gt;= 5 000 mg/kg bw Acute inhalation toxicity: LC50, rat, &gt;20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, &gt;2000 mg/kg bw, estimated</p>
<p>CASRN 105-54-4 EC-No. 203-306-4 Index-No. -</p>	-	1-5%	Ethyl butyrate	<p>Flam. Liq. 3, H226</p> <p>Acute toxicity estimate Acute oral toxicity: Not classified LD50, rat, &gt;2000mg/kg, OECD Guideline 423 Acute inhalation toxicity: Not classified LC50, rat, &gt;7380 mg/m3, Acute dermal toxicity Not classified LD50, rat, &gt;2000mg/kg</p>

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CASRN 134-20-3 EC-No. 205-132-4 Index-No. -	-	1-5%	Methyl anthranilate	Eye Irrit. 2, H319  Acute toxicity estimate Acute oral toxicity: Not classified LD50, rat, >2000 mg/kg, OECD Guideline 401 Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, >5000 mg/kg bw
CASRN 121-32-4 EC-No. 204-464-7 Index-No. -	-	1-5%	3-ethoxy-4- hydroxybenzaldehyde	Not classified  Acute toxicity estimate Acute oral toxicity: LD50, rat, > 3160 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rat, > 2 000 mg/kg bw
CASRN 77-83-8 EC-No. 201-061-8 Index-No. -	-	1-5%	Ethyl 2,3-epoxy-3- phenylbutyrate	Skin Sens. 1B, H317 Aquatic Chronic 2, H411  Acute toxicity estimate Acute oral toxicity: LD50, rat, 5470 mg/kg Acute inhalation toxicity: LC50, rat, 15 min, >1443 mg/L Acute dermal toxicity LD50, rabbit, >2000 mg/kg, estimated
CASRN 123-92-2 EC-No. 204-662-3 Index-No. 607-130- 00-2	-	1-5%	Isopentyl acetate	Flam. Liq. 3, H226  Acute toxicity estimate Acute oral toxicity: LD50, rabbit, 7 410 mg/kg bw Acute inhalation toxicity: LOAEL, cat, 11 600 mg/m <sup>3</sup> air Acute dermal toxicity LD50, rabbit, > 5 000 mg/kg bw
CASRN 79-77-6 EC-No. 201-224-3 Index-No. -	-	1-5%	(E)-4-(2,6,6-trimethyl-1- cyclohexen-1-yl)-3-buten-2- one	Aquatic Chronic 2, H411  Acute toxicity estimate Acute oral toxicity: LD50, rat, 4590 mg/kg Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rat, >2000 mg/kg bw

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CASRN 106-27-4 EC-No. 203-380-8 Index-No. -	-	1-5%	3-methylbutyl butyrate	Flam. Liq. 3, H226  Acute toxicity estimate Acute oral toxicity: GHS criteria not met LD50, rat, >5000 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity GHS criteria not met LD50, rat, > 2 000 mg/kg bw
CASRN 4940-11-8 EC-No. 225-582-5 Index-No. -	-	1-5%	2-ethyl-3-hydroxy-4-pyrone	Acute Tox. 4, H302  Acute toxicity estimate Acute oral toxicity: Acute Toxicity Category 4 The acute oral LD50, rats, ca. 1220 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbits, >5000 mg/kg bw, OECD Guideline 402
CASRN 8008-57-9 EC-No. 600-006-9 Index-No. -	-	0.1-1.0%	Orange sweet oil	Not classified  Acute toxicity estimate Acute oral toxicity: LD50, rat, > 5 000 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, > 5 000 mg/kg bw
CASRN 106-22-9 EC-No. 203-375-0 Index-No. -	-	0.1-1.0%	Citronellol	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319  Acute toxicity estimate Acute oral toxicity: LD50, rat, 3450 mg/kg bw Acute inhalation toxicity: LC0, rat, 4h, 0.4 mg/L air Acute dermal toxicity LD50, rabbit, 2 650 mg/kg bw

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

General advice : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

If inhaled : Not expected to be irritating to the respiratory system.

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- On skin contact : Wash with plenty of soap and water.
- On contact with eyes : Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
- On ingestion : Rinse mouth with water. Call a physician immediately.

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

- Symptoms : Further important symptoms and effects are so far not known.

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

- Treatment : No information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

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

- Specific hazards during firefighting : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

#### 5.3 Advice for firefighters

- Special protective equipment : Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

- Further information : No information available.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Ensure adequate ventilation. Avoid skin contact.

#### 6.2 Environmental precautions

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Environmental precautions : Do not release to the environment.

## 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Absorb spill and scrub the area with detergent. Dilute with water. Ventilate area and eliminate all ignition sources.

## 6.4 Reference to other sections

References to other sections, if applicable, have been provided in the previous sub-sections.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep out of reach of children. Read label before use.

Advice on protection against fire and explosion : No information available.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Protect against external exposure, such as heat, high temperatures.

### 7.3 Specific end use(s)

no data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Chemical name	Occupational Exposure Limits		Regulation
Isopentyl acetate	TWA	270 mg/m <sup>3</sup>	EU occupational exposure limit values
Isopentyl acetate	STEL	540 mg/m <sup>3</sup>	EU occupational exposure limit values
(2-methoxymethylethoxy) propanol	TWA	308 mg/m <sup>3</sup>	EU occupational exposure limit values

### 8.2 Exposure controls

Engineering controls : Not required under normal conditions of use.

Eye protection : Not required for normal handling. Wear eye/face protection.

Hand protection : Not required under normal conditions of use. Wear protective gloves to handle contents of damaged or leaking units.



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Body and skin protection : Not required under normal conditions of use. Protection may be required for spills.

General safety and hygiene measures : Not required under normal conditions of use.

Respiratory protection : Not required under normal conditions of use.

Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: : solid

Odour : accord with standard sample

Odour threshold : no data available

pH : no data available

Melting point : no data available

Boiling point : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper/lower flammability or explosive limits : no data available

Vapour pressure : no data available

Vapour density : no data available

Relative density : no data available

Water solubility : not determined

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : not applicable

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Explosive properties : none

Oxidising properties : none

## 9.2 Other information

no data available

## SECTION 10: Stability and Reactivity

**10.1 Reactivity** : No hazardous reactions if stored and handled as prescribed/indicated.

**10.2 Chemical stability** : Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** : Product will not undergo polymerization.

**10.4 Conditions to avoid** : Avoid all sources of ignition: heat, sparks, open flame.

**10.5 Incompatible materials** : Strong acids. Strong bases. Strong oxidizers.

**10.6 Hazardous decomposition products** : No hazardous decomposition products if stored and handled as prescribed/indicated.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

**Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)**

#### Acute Toxicity Endpoints:

#### Acute oral toxicity

#### Information for the Product:

Shall not be classified as acutely toxic (oral).

As product: Single dose oral LD50 has not been determined.

Based on information for component(s): LD50, > 2 000 mg/kg Estimated.

#### Information for components:

Benzaldehyde

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LD50, Rat, 1430 mg/kg bw, OECD guideline 401

Methyl anthranilate  
LD50, rat, >2000 mg/kg,  
OECD Guideline 401

Vanillin  
LD50, rat, ca. 3 978 mg/kg bw, EU Method B.1

Ethyl 2,3-epoxy-3-phenylbutyrate  
LD50, rat, 5470 mg/kg

Isopentyl acetate  
LD50, rabbit, 7 410 mg/kg bw

3-methylbutyl butyrate  
LD50, rat, >5000 mg/kg bw

Ethyl butyrate  
LD50, rat, >2000mg/kg, OECD Guideline 423

Isononyl acetate  
LD50, rat, 4250 mg/kg

2-ethyl-3-hydroxy-4-pyrone  
The acute oral LD50, rats, ca. 1220 mg/kg bw

Orange sweet oil  
LD50, rat, > 5 000 mg/kg bw

Citronellol  
LD50, rat, 3450 mg/kg bw

(2-methoxymethylethoxy)propanol  
LD50, rat, > 5 000 mg/kg bw, OECD Guideline 401

3-ethoxy-4-hydroxybenzaldehyde  
LD50, rat, > 3160 mg/kg bw

Citronellol  
LD50, rat, 3 450 mg/kg bw

Undecan-4-olide  
LD50, rat, 18 500 mg/kg bw

4-(4-methoxyphenyl)butan-2-one  
LD50, rat, >= 5 000 mg/kg bw

## Acute dermal toxicity

## Information for the Product:

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Shall not be classified as acutely toxic (dermal).

As product: The dermal LD50 has not been determined.

Based on information for component(s): LD50, > 2 000 mg/kg Estimated.

## Information for components:

Benzaldehyde

LC50, rat, 4h, 1.0 – 5 mg/L

Methyl anthranilate

LC50, rat, >20 mg/L air, estimated

Vanillin

GHS criteria not met

LC50, rat, 4h, >41 mg/m<sup>3</sup>

Ethyl 2,3-epoxy-3-phenylbutyrate

LC50, rat, 15 min, >1443 mg/L

Isopentyl acetate

LOAEL, cat, 11 600 mg/m<sup>3</sup> air

3-methylbutyl butyrate

LC50, rat, >20 mg/L, estimated

Ethyl butyrate

LC50, rat, >7380 mg/m<sup>3</sup>,

Isononyl acetate

LC50, rat, 6h, > 8 000 000 mg/m<sup>3</sup> air

2-ethyl-3-hydroxy-4-pyrone

LC50, rat, >20 mg/L air, estimated

Orange sweet oil

LC50, rat, >20 mg/L air, estimated

Citronellol

LC0, rat, 4h, 0.4 mg/L air

(2-methoxymethylethoxy)propanol

LC0, rat, 7h, > 275 ppm

3-ethoxy-4-hydroxybenzaldehyde

LC50, rat, >20 mg/L air, estimated

Citronellol

LC0, 4h, 0.4 mg/L air

Undecan-4-olide

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LC50, rat, >20 mg/L air, estimated

4-(4-methoxyphenyl)butan-2-one

LC50, rat, >20 mg/L air, estimated

## Acute inhalation toxicity

Information for the Product:

Shall not be classified as acutely toxic (inhalation).

As product: The LC50 has not been determined.

Information for components:

Benzaldehyde

LD50, rabbit, >2,000 mg/kg bw.

Methyl anthranilate

LD50, rabbit, >5000 mg/kg bw

Vanillin

LD50, rat, >2000 mg/kg bw, OECD Guideline 402

Ethyl 2,3-epoxy-3-phenylbutyrate

LD50, rabbit, >2000 mg/kg, estimated

Isopentyl acetate

LD50, rabbit, > 5 000 mg/kg bw

3-methylbutyl butyrate

LD50, rat, > 2 000 mg/kg bw

Ethyl butyrate

LD50, rat, >2000mg/kg

Isononyl acetate

LD50, rabbits, >5000 mg/kg bw

2-ethyl-3-hydroxy-4-pyrone

LD50, rabbits, >5000 mg/kg bw, OECD Guideline 402

Orange sweet oil

LD50, rabbit, > 5 000 mg/kg bw

Citronellol

LD50, rabbit, 2 650 mg/kg bw

(2-methoxymethylethoxy)propanol

LD50, rabbit, >2000 mg/kg bw

3-ethoxy-4-hydroxybenzaldehyde

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LD50, rat, > 2 000 mg/kg bw

Citronellol

LD50, rabbit, 2650 mg/kg bw

Undecan-4-olide

LD50, rat, > 2 000 mg/kg bw

4-(4-methoxyphenyl)butan-2-one

LD50, rabbit, >2000 mg/kg bw, estimated

## Skin corrosion/irritation

### Information for the Product:

Shall not be classified as corrosive/irritant to skin.

### Information for components:

Benzaldehyde

Shall not be classified as corrosive/irritant to skin

Methyl anthranilate

Shall not be classified as corrosive/irritant to skin

Vanillin

Shall not be classified as corrosive/irritant to skin

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as corrosive/irritant to skin

Isopentyl acetate

Shall not be classified as corrosive/irritant to skin

3-methylbutyl butyrate

Shall not be classified as corrosive/irritant to skin

Ethyl butyrate

Shall not be classified as corrosive/irritant to skin

Isononyl acetate

Shall not be classified as corrosive/irritant to skin

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as corrosive/irritant to skin

Orange sweet oil

Shall not be classified as corrosive/irritant to skin

Citronellol

Causes skin irritation

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(2-methoxymethylethoxy)propanol

Shall not be classified as corrosive/irritant to skin

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as corrosive/irritant to skin

Citronellol

Causes skin irritation

Undecan-4-olide

Shall not be classified as corrosive/irritant to skin

4-(4-methoxyphenyl)butan-2-one

Shall not be classified as corrosive/irritant to skin

## Serious eye damage/eye irritation

### Information for the Product:

Shall not be classified as irritant to eye.

### Information for components:

Benzaldehyde

Shall not be classified as irritant to eye

Methyl anthranilate

Causes serious eye irritation

Vanillin

Causes serious eye irritation

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as irritant to eye

Isopentyl acetate

Shall not be classified as irritant to eye

3-methylbutyl butyrate

Shall not be classified as irritant to eye

Ethyl butyrate

Shall not be classified as irritant to eye

Isononyl acetate

Shall not be classified as irritant to eye

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as irritant to eye

Orange sweet oil

Shall not be classified as irritant to eye

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Citronellol

Causes serious eye irritation

(2-methoxymethylethoxy)propanol

Shall not be classified as irritant to eye

3-ethoxy-4-hydroxybenzaldehyde

Causes serious eye irritation

Citronellol

Causes serious eye irritation

Undecan-4-olide

Shall not be classified as irritant to eye

4-(4-methoxyphenyl)butan-2-one

Shall not be classified as irritant to eye

## Respiratory or skin sensitisation

### Information for the Product:

May cause an allergic skin reaction

### Information for components:

Benzaldehyde

For skin sensitization:

Shall not be classified as a skin sensitizer

For respiratory sensitization:

Shall not be classified as a respiratory sensitizer.

Methyl anthranilate

For skin sensitization:

Shall not be classified as a skin sensitizer

For respiratory sensitization:

Shall not be classified as a respiratory sensitizer.

Vanillin

For skin sensitization:

Shall not be classified as a skin sensitizer

For respiratory sensitization:

Shall not be classified as a respiratory sensitizer.

Ethyl 2,3-epoxy-3-phenylbutyrate

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitizer.

Isopentyl acetate



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For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

3-methylbutyl butyrate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Ethyl butyrate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Isononyl acetate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

2-ethyl-3-hydroxy-4-pyrone

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Orange sweet oil

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Citronellol

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

(2-methoxymethylethoxy)propanol

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

3-ethoxy-4-hydroxybenzaldehyde

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

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Citronellol

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Undecan-4-olide

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

4-(4-methoxyphenyl)butan-2-one

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

## Germ cell mutagenicity

### Information for the Product:

Shall not be classified as germ cell mutagenic.

### Information for components:

Benzaldehyde

Shall not be classified as germ cell mutagenic

Methyl anthranilate

Shall not be classified as germ cell mutagenic

Vanillin

Shall not be classified as germ cell mutagenic

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as germ cell mutagenic

Isopentyl acetate

Shall not be classified as germ cell mutagenic

3-methylbutyl butyrate

Shall not be classified as germ cell mutagenic

Ethyl butyrate

Shall not be classified as germ cell mutagenic

Isononyl acetate

Shall not be classified as germ cell mutagenic

2-ethyl-3-hydroxy-4-pyrone

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Shall not be classified as germ cell mutagenic

Orange sweet oil

Shall not be classified as germ cell mutagenic

Citronellol

Shall not be classified as germ cell mutagenic

(2-methoxymethylethoxy)propanol

Shall not be classified as germ cell mutagenic

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as germ cell mutagenic

Citronellol

Shall not be classified as germ cell mutagenic

Undecan-4-olide

Shall not be classified as germ cell mutagenic

4-(4-methoxyphenyl)butan-2-one

Shall not be classified as germ cell mutagenic

## Carcinogenicity

### Information for the Product:

Shall not be classified as carcinogenic.

### Information for components:

Benzaldehyde

Shall not be classified as carcinogenic

Methyl anthranilate

Shall not be classified as carcinogenic

Vanillin

Shall not be classified as carcinogenic

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as carcinogenic

Isopentyl acetate

Shall not be classified as carcinogenic

3-methylbutyl butyrate

Shall not be classified as carcinogenic

Ethyl butyrate

Shall not be classified as carcinogenic

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Isononyl acetate  
Shall not be classified as carcinogenic

2-ethyl-3-hydroxy-4-pyrone  
Shall not be classified as carcinogenic

Orange sweet oil  
Shall not be classified as carcinogenic

Citronellol  
Shall not be classified as carcinogenic

(2-methoxymethylethoxy)propanol  
Shall not be classified as carcinogenic

3-ethoxy-4-hydroxybenzaldehyde  
Shall not be classified as carcinogenic

Citronellol  
Shall not be classified as carcinogenic

Undecan-4-olide  
Shall not be classified as carcinogenic

4-(4-methoxyphenyl)butan-2-one  
Shall not be classified as carcinogenic

## Reproductive toxicity

### Information for the Product:

Shall not be classified as a reproductive toxicant.

### Information for components:

Benzaldehyde  
Shall not be classified as a reproductive toxicant

Methyl anthranilate  
Shall not be classified as a reproductive toxicant

Vanillin  
Shall not be classified as a reproductive toxicant

Ethyl 2,3-epoxy-3-phenylbutyrate  
Shall not be classified as a reproductive toxicant

Isopentyl acetate  
Shall not be classified as a reproductive toxicant

3-methylbutyl butyrate  
Shall not be classified as a reproductive toxicant

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Ethyl butyrate

Shall not be classified as a reproductive toxicant

Isononyl acetate

Shall not be classified as a reproductive toxicant

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as a reproductive toxicant

Orange sweet oil

Shall not be classified as a reproductive toxicant

Citronellol

Shall not be classified as a reproductive toxicant

(2-methoxymethylethoxy)propanol

Shall not be classified as a reproductive toxicant

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as a reproductive toxicant

Citronellol

Shall not be classified as a reproductive toxicant

Undecan-4-olide

Shall not be classified as a reproductive toxicant

4-(4-methoxyphenyl)butan-2-one

Shall not be classified as a reproductive toxicant

## STOT-single exposure

### Information for the Product:

Shall not be classified as a specific target organ toxicant (single exposure).

### Information for components:

Benzaldehyde

Shall not be classified as a specific target organ toxicant (single exposure)

Methyl anthranilate

Shall not be classified as a specific target organ toxicant (single exposure)

Vanillin

Shall not be classified as a specific target organ toxicant (single exposure)

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as a specific target organ toxicant (single exposure)

Isopentyl acetate

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Shall not be classified as a specific target organ toxicant (single exposure)

3-methylbutyl butyrate

Shall not be classified as a specific target organ toxicant (single exposure)

Ethyl butyrate

Shall not be classified as a specific target organ toxicant (single exposure)

Isononyl acetate

Shall not be classified as a specific target organ toxicant (single exposure)

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as a specific target organ toxicant (single exposure)

Orange sweet oil

Shall not be classified as a specific target organ toxicant (single exposure)

Citronellol

Shall not be classified as a specific target organ toxicant (single exposure)

(2-methoxymethylethoxy)propanol

Shall not be classified as a specific target organ toxicant (single exposure)

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as a specific target organ toxicant (single exposure)

Citronellol

Shall not be classified as a specific target organ toxicant (single exposure)

Undecan-4-olide

Shall not be classified as a specific target organ toxicant (single exposure)

4-(4-methoxyphenyl)butan-2-one

Shall not be classified as a specific target organ toxicant (single exposure)

## STOT-repeated exposure

### Information for the Product:

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Information for components:

Benzaldehyde

Shall not be classified as a specific target organ toxicant (repeated exposure)

Methyl anthranilate

Shall not be classified as a specific target organ toxicant (repeated exposure)

Vanillin

Shall not be classified as a specific target organ toxicant (repeated exposure)

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Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as a specific target organ toxicant (repeated exposure)

Isopentyl acetate

Shall not be classified as a specific target organ toxicant (repeated exposure)

3-methylbutyl butyrate

Shall not be classified as a specific target organ toxicant (repeated exposure)

Ethyl butyrate

Shall not be classified as a specific target organ toxicant (repeated exposure)

Isononyl acetate

Shall not be classified as a specific target organ toxicant (repeated exposure)

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as a specific target organ toxicant (repeated exposure)

Orange sweet oil

Shall not be classified as a specific target organ toxicant (repeated exposure)

Citronellol

Shall not be classified as a specific target organ toxicant (repeated exposure)

(2-methoxymethylethoxy)propanol

Shall not be classified as a specific target organ toxicant (repeated exposure)

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as a specific target organ toxicant (repeated exposure)

Citronellol

Shall not be classified as a specific target organ toxicant (repeated exposure)

Undecan-4-olide

Shall not be classified as a specific target organ toxicant (repeated exposure)

4-(4-methoxyphenyl)butan-2-one

Shall not be classified as a specific target organ toxicant (repeated exposure)

## Aspiration Hazard

### Information for the Product:

Shall not be classified as presenting an aspiration hazard.

### Information for components:

Benzaldehyde

Shall not be classified as presenting an aspiration hazard

Methyl anthranilate

Shall not be classified as presenting an aspiration hazard

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Vanillin

Shall not be classified as presenting an aspiration hazard

Ethyl 2,3-epoxy-3-phenylbutyrate

Shall not be classified as presenting an aspiration hazard

Isopentyl acetate

Shall not be classified as presenting an aspiration hazard

3-methylbutyl butyrate

Shall not be classified as presenting an aspiration hazard

Ethyl butyrate

Shall not be classified as presenting an aspiration hazard

Isononyl acetate

Shall not be classified as presenting an aspiration hazard

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as presenting an aspiration hazard

Orange sweet oil

Shall not be classified as presenting an aspiration hazard

Citronellol

Shall not be classified as presenting an aspiration hazard

(2-methoxymethylethoxy)propanol

Shall not be classified as presenting an aspiration hazard

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as presenting an aspiration hazard

Citronellol

Shall not be classified as presenting an aspiration hazard

Undecan-4-olide

Shall not be classified as presenting an aspiration hazard

4-(4-methoxyphenyl)butan-2-one

Shall not be classified as presenting an aspiration hazard

## 11.2 Information on other hazards

Endocrine disrupting properties

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.

Information for components:



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## **Benzaldehyde**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Methyl anthranilate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Vanillin**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Ethyl 2,3-epoxy-3-phenylbutyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Isopentyl acetate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **3-methylbutyl butyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Ethyl butyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Isononyl acetate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **2-ethyl-3-hydroxy-4-pyrone**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Orange sweet oil**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Citronellol**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **(2-methoxymethylethoxy)propanol**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **3-ethoxy-4-hydroxybenzaldehyde**

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The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## Citronellol

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## Undecan-4-olide

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## 4-(4-methoxyphenyl)butan-2-one

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Benzaldehyde

Short-term toxicity to fish  
Lowest LC50, bluegill, 1.07 mg/L

Long-term toxicity to fish  
NOEC, Pimephales promelas, 7 d, 0.12 mg/L

Short-term toxicity to aquatic invertebrates  
EC50, daphnia, 48h, 19.7 mg/l

Long-term toxicity to aquatic invertebrates  
Study waived due to the ready biodegradability of the test substance.

Toxicity to aquatic algae and cyanobacteria  
EC50, Pseudokirchneriella subcapitata, 72h, 8.05 mg/l  
EC10, Pseudokirchneriella subcapitata, 72h, 0.0205 mg/l

Toxicity to microorganisms  
IC50, activated sludge, 759 mg/L, OECD 209

#### Methyl anthranilate

Short-term toxicity to fish  
LC50, Atlantic salmon, 96h, 32.35 mg/L

Long-term toxicity to fish  
LC50, fish, 28d, 7.22 mg/l

Short-term toxicity to aquatic invertebrates  
EC50, Daphnia magna, 48h, 18.2 mg/L

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Long-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 21d, 4.36 mg/L

Toxicity to aquatic algae and cyanobacteria

LOEC, aquatic algae, 5d, 151.16 mg/L

Toxicity to microorganisms

Minimum Inhibitory Concentration, Candida albicans, diphtheroid, 24h, 1000mg/L

## Vanillin

Short-term toxicity to fish

LC50, Pimephales promelas, 96h, 57 mg/L, first study

LC50, Pimephales promelas, 96h, 123 mg/L, second study

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 36.79 mg/L

Long-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 21d, 16 mg/L, OECD202

NOEC, Daphnia magna, 21d, 5.9 mg/L, OECD202

LOEC, Daphnia magna, 21d, 10 mg/L, OECD202

Toxicity to aquatic algae and cyanobacteria

ErC50, algae Pseudokirchneriella supcapitata, 72h, 120 mg/L, OECD guideline and GLP

EyC50, algae Pseudokirchneriella supcapitata, 72h, 78.6 mg/L, OECD guideline and GLP

Toxicity to microorganisms

NOEC, activity of activated sludge, 14d, 100 mg/L, OECD 301C

## Ethyl 2,3-epoxy-3-phenylbutyrate

Short-term toxicity to fish

LC50, fish, 96h, 24.11 to 147.54 mg/L, estimated

Short-term toxicity to aquatic invertebrates

LC50, aquatic invertebrates, 96h, 7.02 to 69.43 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, aquatic algae, 7.71 - 16.5 mg/l, estimated

## Isopentyl acetate

Short-term toxicity to fish

LC50, Danio rerio. 96h, 11.1 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates

LC50, 96h, 11.1 mg/L, OECD Guideline 203

Toxicity to aquatic algae and cyanobacteria

EC50, algae, > 100 mg/l.

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Toxicity to microorganisms

NOEC, activated sludge, ca. 300 mg/L, OECD TG 209

### **3-methylbutyl butyrate**

Short-term toxicity to fish

LC50, Danio rerio, 96h, 3.19 mg/L

Short-term toxicity to aquatic invertebrates

EC50, 48h, 8.12 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

EC50, alga, 72h, 4.68 mg/L, OECD Guideline 201

EC10, alga, 72h, 3.13 mg/L, OECD Guideline 201

Toxicity to microorganisms

NOEC, 15.1 mg/L, OECD 310

### **Ethyl butyrate**

Short-term toxicity to fish

LC50, zebra Fish, 96h, > 100 mg/L.

Long-term toxicity to fish

NOEC, fish, 28d, 1.483mg/l

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 116.6 mg/L

Long-term toxicity to aquatic invertebrates

NOEC, 21d, 28.83 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, Alga, 72h, 100 mg/L, OECD Guideline 201

Toxicity to microorganisms

LOEC, 72h, 236mg/l

### **Isononyl acetate**

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 116 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, Desmodesmus subspicatus, 72h, 120 mg/l

### **2-ethyl-3-hydroxy-4-pyrone**

Short-term toxicity to fish

LC50, 96h, >85 mg/L

Short-term toxicity to aquatic invertebrates

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EC50, Daphnia magna, 48h, 27 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 7.2 mg/L

EC10, 72h, 1.8 mg/L

Toxicity to microorganisms

NOEC, 28 d, 15.5 mg/L

## Orange sweet oil

Short-term toxicity to fish

EL50, 96h, 5.65 mg/l

Short-term toxicity to aquatic invertebrates

EL50, 48h, 1.1 mg/l

Toxicity to aquatic algae and cyanobacteria

NOELr, 72h, 50 mg/l

EC50, 72h, 4.3 mg/L

## Citronellol

Short-term toxicity to fish

Acutely harmful to aquatic fish.

LC50, Leuciscus idus, 96h, 14.66 mg/l

Short-term toxicity to aquatic invertebrates

Acutely harmful to aquatic invertebrates.

EC50, 48h, 17.48 mg/l

Toxicity to aquatic algae and cyanobacteria

Acutely toxic for aquatic algae.

EC50, Scenedesmus subspicatus, 72h, 2.4 mg/l

Toxicity to microorganisms

EC50, Pseudomonas putida, 30min, > 10000 mg/l

## (2-methoxymethylethoxy)propanol

Short-term toxicity to fish

The short-term toxicity to fish is very low.

EC50 > 10000 mg/L.

Short-term toxicity to aquatic invertebrates

EC50 > 1000 mg/L

Long-term toxicity to aquatic invertebrates

NOEC >= 0.5 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, > 1000 mg/L

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Toxicity to microorganisms  
EC10 or NOEC, 4168 mg/L

### **3-ethoxy-4-hydroxybenzaldehyde**

Short-term toxicity to fish  
LC50, 96h, 87.6 mg/L

Long-term toxicity to fish  
NOEC/EC10, 1.18 mg/L

Short-term toxicity to aquatic invertebrates  
EC50, 48h, 26.2 mg/L

Long-term toxicity to aquatic invertebrates  
NOEC, 21d, 5.9 mg/L

Toxicity to aquatic algae and cyanobacteria  
ErC50, 72h, > 100 mg/L

Toxicity to microorganisms  
IC50, 40h, Tetrahymena pyriformis, 158.7 mg/L

### **Citronellol**

Short-term toxicity to fish  
LC50, 96h, 14.66 mg/l

Short-term toxicity to aquatic invertebrates  
EC50, 48h, 17.48 mg/l

Toxicity to aquatic algae and cyanobacteria  
EC50, 72h, 2.4 mg/l

Toxicity to microorganisms  
EC10, 30min, 580 mg/l

### **Undecan-4-olide**

Short-term toxicity to fish  
LC50, 96h, 6.13 mg/L

Long-term toxicity to fish  
EC10, 32d, 0.84 mg/L

Short-term toxicity to aquatic invertebrates  
EC50, 48h, 5.85 mg/L

Long-term toxicity to aquatic invertebrates  
EC10, 21d, 1.02 mg/L

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Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 7.218 mg/L

EC10, 72h, 1.669 mg/L

Toxicity to microorganisms

EC50, 30min, 800 mg/L.

## 4-(4-methoxyphenyl)butan-2-one

Short-term toxicity to fish

LC50, 96h, >38.0 mg/L

Short-term toxicity to aquatic invertebrates

EC50, 48h, Daphnia magna, >100 mg/L

NOEC, 48h, Daphnia magna, 50 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 38.1 mg/L

EC10, 72h, 19.2 mg/L

Toxicity to microorganisms

NOEC, 25 mg/L, assumed

## 12.2 Persistence and degradability

Benzaldehyde

Readily biodegradable

Biodegradation: 95%

Exposure time: 28d

Methyl anthranilate

Readily biodegradable

Biodegradation: 100%

Exposure time: 20d

Vanillin

Readily biodegradable

Biodegradation: 97%

Exposure time: 14d

Ethyl 2,3-epoxy-3-phenylbutyrate

Readily biodegradable

Isopentyl acetate

Readily biodegradable

Biodegradation: 90%

Exposure time: 37d

3-methylbutyl butyrate

Readily biodegradable

Biodegradation: 63%

Exposure time: 28d

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Method: OECD 310

Ethyl butyrate

Inherently biodegradable

Biodegradation: 50%

Exposure time: 42d

Method: OECD Guideline 301 D

Isononyl acetate

readily biodegradable

Biodegradation: 90.83%

Exposure time: 28d

Method: OECD Guideline 301 C

2-ethyl-3-hydroxy-4-pyrone

readily biodegradable

Biodegradation: 104.4%

Exposure time: 28d

Method: OECD Guideline 301 B

Orange sweet oil

Readily biodegradable

Biodegradation: 75%

Exposure time: 28d

Method: OECD Guideline 301 B

Citronellol

readily biodegradable

Biodegradation: 80 - 90%

Exposure time: 28d

(2-methoxymethylethoxy)propanol

readily biodegradable

Biodegradation: 79%

Exposure time: 28d

Method: OECD 301 F

3-ethoxy-4-hydroxybenzaldehyde

readily biodegradable

Biodegradation: 88%, 98% and 100%

Exposure time: 14d

Method: OECD 301 C

Citronellol

readily biodegradable

Biodegradation: 80 - 90 %

Exposure time: 28d

Undecan-4-olide

Readily biodegradable

Biodegradation: 82 %

Exposure time: 28d



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Method: OECD Guideline 301D

4-(4-methoxyphenyl)butan-2-one

Readily biodegradable

Biodegradation: 100%

Exposure time: 28d

Method: OECD Guideline 301 F

## 12.3 Bioaccumulative potential

Benzaldehyde

Log Kow of 1.4

Methyl anthranilate

Non-accumulative in aquatic organisms.

BCF: <2000 L/kg

Vanillin

The study does not need to be conducted because the substance has a low potential for bioaccumulation based on log Kow <=3

Isopentyl acetate

BCF (aquatic species):

28.1 L/kg ww

Ethyl butyrate

Non-accumulative in aquatic organisms.

BCF: 7.678 L/kg Estimated

Isononyl acetate

Is not expected to bioaccumulate in the food chain

BCF: 286.4 L/kg, estimated

2-ethyl-3-hydroxy-4-pyrone

BCF, 232 L/kg ww

Orange sweet oil

BCF, 361 L/kg ww

Citronellol

A calculated BCF indicates that the substance does not significantly accumulate in organisms.

(2-methoxymethylethoxy)propanol

log Kow < 1

This substance is not expected to accumulate in biological tissues or bioaccumulate in foodwebs.

3-ethoxy-4-hydroxybenzaldehyde

log Kow, 1.58 to 1.61(25°C), has a low potential of bioaccumulation.

Citronellol

A calculated BCF indicates that the substance does not significantly accumulate in organisms.

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Undecan-4-olide  
BCF, 101.8 L/kg ww

## 12.4 Mobility in soil

Benzaldehyde  
Koc: 56( 20 °C)

Methyl anthranilate  
Koc : 75(20 °C)  
Log Koc = 1.87

Vanillin  
Koc: 4898(20 °C)

Isopentyl acetate  
Koc: 225.4(20 °C)

3-methylbutyl butyrate  
Koc: 276.5(20 °C)  
Log Koc: 2.44

Ethyl butyrate  
Koc: 22.181(20 °C)  
LogKoc: 1.346

Isononyl acetate  
Koc: 4 849(20 °C)

2-ethyl-3-hydroxy-4-pyrone  
Koc: 337(20 °C)

Orange sweet oil  
The substance is readily biodegradable.

Citronellol  
Adsorption to solid soil phase is not expected.  
log Koc: 1.85

(2-methoxymethylethoxy)propanol  
Has a low potential for sorption to organic matter.

3-ethoxy-4-hydroxybenzaldehyde  
Koc, 1 236(20 °C)

Citronellol  
log Koc, 1.85

Undecan-4-olide  
Koc, 599.8(20 °C)

4-(4-methoxyphenyl)butan-2-one

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log Kow, 2.0

## 12.5 Results of PBT and vPvB assessment

### Benzaldehyde

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Methyl anthranilate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Vanillin

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Ethyl 2,3-epoxy-3-phenylbutyrate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Isopentyl acetate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 3-methylbutyl butyrate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Ethyl butyrate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Isononyl acetate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 2-ethyl-3-hydroxy-4-pyrone

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Orange sweet oil

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### Citronellol

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### (2-methoxymethylethoxy)propanol

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This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **3-ethoxy-4-hydroxybenzaldehyde**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **Citronellol**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **Undecan-4-olide**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **4-(4-methoxyphenyl)butan-2-one**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## **12.6 Endocrine disrupting properties**

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.

### **Benzaldehyde**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Methyl anthranilate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Vanillin**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Ethyl 2,3-epoxy-3-phenylbutyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Isopentyl acetate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **3-methylbutyl butyrate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### **Ethyl butyrate**

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The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Isononyl acetate**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **2-ethyl-3-hydroxy-4-pyrone**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Orange sweet oil**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Citronellol**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **(2-methoxymethylethoxy)propanol**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **3-ethoxy-4-hydroxybenzaldehyde**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Citronellol**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **Undecan-4-olide**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **4-(4-methoxyphenyl)butan-2-one**

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

## **12.7 Other adverse effects**

### **Benzaldehyde**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### **Methyl anthranilate**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### **Vanillin**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

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## Ethyl 2,3-epoxy-3-phenylbutyrate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Isopentyl acetate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## 3-methylbutyl butyrate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Ethyl butyrate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Isononyl acetate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## 2-ethyl-3-hydroxy-4-pyrone

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Orange sweet oil

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Citronellol

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## (2-methoxymethylethoxy)propanol

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## 3-ethoxy-4-hydroxybenzaldehyde

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Citronellol

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## Undecan-4-olide

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## 4-(4-methoxyphenyl)butan-2-one

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product** : Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

## SECTION 14: Transport Information

### Land transport

ADR/RID/ADN

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- 14.1. UN number : not applicable
- 14.2. UN proper shipping name: : not applicable
- 14.3. Transport hazard class(es): : not applicable
- 14.4. Packing group : not applicable
- 14.5. Environmental hazards : no
- 14.6. Special precautions for user : none

## Sea transport

### IMDG

- 14.1. UN number : not applicable
- 14.2. UN proper shipping name: : not applicable
- 14.3. Transport hazard class(es): : not applicable
- 14.4. Packing group : not applicable
- 14.5. Environmental hazards : no
- 14.6. Special precautions for user : none
- 14.7. Maritime transport in bulk according to IMO instruments : Consult IMO regulations before transporting ocean bulk

## Air transport

### IATA/ICAO

- 14.1. UN number: : not applicable
- 14.2. UN proper shipping name: : not applicable
- 14.3. Transport hazard class(es): : not applicable
- 14.4. Packing group: : not applicable
- 14.5. Environmental hazards: : no
- 14.6. Special precautions for user : none

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

## SECTION 15: Regulatory information

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

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

Listed in Regulation: Not applicable

## 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### Full text of H-Statements referred to under section 3.

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

### Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods



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LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA)
vPvB	very Persistent and very Bioaccumulative

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The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

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