

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: Car Air Freshener- Vanilla

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- Vanilla

### 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

Eye Irrit. 2 H319

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:*

H319 Causes serious eye irritation

*Precautionary statements:*

P264 Wash exposed skin thoroughly after handling.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

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

*Derogations from labelling requirements*

*Hazard pictograms*



*Signal word:* Warning

*Hazard statements:*

H319 Causes serious eye irritation

*Precautionary statements:*

P102 Keep out of reach of children.  
P103 Read label before use.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: 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.

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.

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## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| CASRN /<br>EC-No. /<br>Index-No.                                 | REACH<br>Registration<br>Number | Concentration | Component                      | Classification:<br>REGULATION (EC) No 1272/2008<br>and amendment (EU) 2024/197   |
|--|---------------------------------|---------------|--------------------------------|--|
| CASRN<br>110-27-0<br>EC-No.<br>203-751-4<br>Index-No.<br>-       | -                               | 60-65%        | Isopropyl myristate            | Not classified<br><br>Acute toxicity estimate<br>Acute oral toxicity:<br>LD50, rat, > 2 000 mg/kg bw<br>Acute inhalation toxicity:<br>LC50, rat, > 5.3 mg/L air<br>(analytical)<br>Acute dermal toxicity<br>LD50, rabbit, >2000 mg/kg bw,<br>estimated                               |
| CASRN<br>121-33-5<br>EC-No.<br>204-465-2<br>Index-No.<br>-       | -                               | 20-30%        | Vanillin                       | Eye Irrit. 2, H319<br><br>Acute toxicity estimate<br>Acute oral toxicity:<br>LD50, rat, ca. 3 978 mg/kg bw,<br>EU Method B.1<br>Acute inhalation toxicity:<br>LC50, rat, 4h, >41 mg/m3<br>Acute dermal toxicity<br>LD50, rat, >2000 mg/kg bw,<br>OECD Guideline 402                  |
| CASRN<br>4940-11-8<br>EC-No.<br>225-582-5<br>Index-No.<br>-      | -                               | 1-10%         | 2-ethyl-3-hydroxy-4-<br>pyrone | Acute Tox. 4, H302<br><br>Acute toxicity estimate<br>Acute oral toxicity:<br>The acute oral LD50, rats, ca.<br>1220 mg/kg bw<br>Acute inhalation toxicity:<br>LC50, rat, >20 mg/L air,<br>estimated<br>Acute dermal toxicity<br>LD50, rabbits, >5000 mg/kg bw,<br>OECD Guideline 402 |
| CASRN<br>24851-98-<br>7<br>EC-No.<br>246-495-9<br>Index-No.<br>- | -                               | 1-10%         | Hedione                        | Not classified<br><br>Acute toxicity estimate<br>Acute oral toxicity:<br>LD50, rat, > 5 000 mg/kg bw<br>Acute inhalation toxicity:<br>LC50, rat, > 4.93 mg/L air<br>(analytical)<br>Acute dermal toxicity<br>LD50, rabbit, > 5 000 mg/kg bw  |

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|--|---|----------|----------------------------|--|
| CASRN<br>123-11-5<br>EC-No.<br>204-602-6<br>Index-No.<br>- | - | 1-5%     | Anisaldehyde               | Not classified<br><br>Acute toxicity estimate<br>Acute oral toxicity:<br>LD50, rat, 3210 mg/kg bw<br>Acute inhalation toxicity:<br>LC50, 7 h, 0.32 mg/L<br>Acute dermal toxicity<br>LD50, rabbit, > 5 000 mg/kg bw                                       |
| CASRN<br>128-37-0<br>EC-No.<br>204-881-4<br>Index-No.<br>- | - | 0.1-1.0% | 2,6-di-tert-butyl-p-cresol | Aquatic Chronic 1, H410<br><br>Acute toxicity estimate<br>Acute oral toxicity:<br>GHS criteria not met<br>LD50, rat, 24h, >6000 mg/kg<br>Acute inhalation toxicity:<br>RD50, 59.7 ml/m <sup>3</sup><br>Acute dermal toxicity<br>LD50, rat, 2000 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.
- 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

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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

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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No data available.

### 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.

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

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|  |   |                   |
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| 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    |
| Explosive properties                   | : | none              |
| Oxidising properties                   | : | none              |

## 9.2 Other information

no data available

## SECTION 10: Stability and Reactivity

|  |   |  |
|--|---|--|
| <b>10.1 Reactivity</b>                         | : | No hazardous reactions if stored and handled as prescribed/indicated.              |
| <b>10.2 Chemical stability</b>                 | : | Stable under recommended storage conditions.                                       |
| <b>10.3 Possibility of hazardous reactions</b> | : | Product will not undergo polymerization.   |
| <b>10.4 Conditions to avoid</b>                | : | Avoid all sources of ignition: heat, sparks, open flame.                           |
| <b>10.5 Incompatible materials</b>             | : | Strong acids. Strong bases. Strong oxidizers.                                      |
| <b>10.6 Hazardous decomposition products</b>   | : | 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:**

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## 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:

Vanillin

Category 5 based on GHS criteria

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

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

LD50, rat, 24h, >6000 mg/kg

Isopropyl myristate

LD50, rat, > 2 000 mg/kg bw

Hedione

LD50, rat, > 5 000 mg/kg bw

2-ethyl-3-hydroxy-4-pyrone

The acute oral LD50, rats, ca. 1220 mg/kg bw

Anisaldehyde

LD50, rat, 3210 mg/kg bw

## Acute dermal toxicity

### Information for the Product:

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:

Vanillin

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

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

RD50, 59.7 ml/m<sup>3</sup>

Isopropyl myristate

LC50, rat, > 5.3 mg/L air (analytical)

Hedione

LC50, rat, > 4.93 mg/L air (analytical)



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2-ethyl-3-hydroxy-4-pyrone  
LC50, rat, >20 mg/L air, estimated

Anisaldehyde  
LC50, 7 h, 0.32 mg/L

## 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:

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

2,6-di-tert-butyl-p-cresol  
LD50, rat, 2000 mg/kg bw.

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

Hedione  
LD50, rabbit, > 5 000 mg/kg bw

2-ethyl-3-hydroxy-4-pyrone  
LD50, rabbits, >5000 mg/kg bw, OECD Guideline 402

Anisaldehyde  
LD50, rabbit, > 5 000 mg/kg bw

## Skin corrosion/irritation

Information for the Product:

Shall not be classified as corrosive/irritant to skin.

Information for components:

Vanillin  
Shall not be classified as corrosive/irritant to skin

2,6-di-tert-butyl-p-cresol  
Shall not be classified as corrosive/irritant to skin

Isopropyl myristate  
Shall not be classified as corrosive/irritant to skin

Hedione  
Shall not be classified as corrosive/irritant to skin

2-ethyl-3-hydroxy-4-pyrone

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Shall not be classified as corrosive/irritant to skin

Anisaldehyde

Shall not be classified as corrosive/irritant to skin

## Serious eye damage/eye irritation

### Information for the Product:

Causes serious eye irritation.

### Information for components:

Vanillin

Causes serious eye irritation

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

Shall not be classified as irritant to eye

Isopropyl myristate

Shall not be classified as irritant to eye

Hedione

Shall not be classified as irritant to eye

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as irritant to eye

Anisaldehyde

Shall not be classified as irritant to eye

## Respiratory or skin sensitisation

### Information for the Product:

Shall not be classified as a respiratory or skin sensitiser.

### Information for components:

Vanillin

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

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

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Isopropyl myristate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

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Shall not be classified as a respiratory sensitiser.

Hedione

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.

Anisaldehyde

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:

Vanillin

Shall not be classified as germ cell mutagenic

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

Shall not be classified as germ cell mutagenic

Isopropyl myristate

Shall not be classified as germ cell mutagenic

Hedione

Shall not be classified as germ cell mutagenic

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as germ cell mutagenic

Anisaldehyde

Shall not be classified as germ cell mutagenic

## Carcinogenicity

### Information for the Product:

Shall not be classified as carcinogenic.

### Information for components:

Vanillin

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Shall not be classified as carcinogenic

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

Shall not be classified as carcinogenic

Isopropyl myristate

Shall not be classified as carcinogenic

Hedione

Shall not be classified as carcinogenic

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as carcinogenic

Anisaldehyde

Shall not be classified as carcinogenic

## Reproductive toxicity

### Information for the Product:

Shall not be classified as a reproductive toxicant.

### Information for components:

Vanillin

Shall not be classified as a reproductive toxicant

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

Shall not be classified as a reproductive toxicant

Isopropyl myristate

Shall not be classified as a reproductive toxicant

Hedione

Shall not be classified as a reproductive toxicant

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as a reproductive toxicant

Anisaldehyde

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:

Vanillin

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

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

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

Isopropyl myristate

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

Hedione

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)

Anisaldehyde

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:**

Vanillin

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

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

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

Isopropyl myristate

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

Hedione

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)

Anisaldehyde

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:**

Vanillin

Shall not be classified as presenting an aspiration hazard

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

Shall not be classified as presenting an aspiration hazard

Isopropyl myristate

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Shall not be classified as presenting an aspiration hazard

Hedione

Shall not be classified as presenting an aspiration hazard

2-ethyl-3-hydroxy-4-pyrone

Shall not be classified as presenting an aspiration hazard

Anisaldehyde

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:

### 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.

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

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.

### Isopropyl myristate

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.

### Hedione

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.

### Anisaldehyde

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

#### Vanillin

Short-term toxicity to fish

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

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

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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

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

Short-term toxicity to fish

LC50, 96h, 0.199 mg/L, OECD guideline 203

Long-term toxicity to fish

NOEC, Oryzias latipes, 30d, 0.053 mg/L, OECD guideline 210

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 0.48 mg/L, OECD guideline 202

Long-term toxicity to aquatic invertebrates

NOEC, Daphnia magna, 21d, 0.069 mg/L

Toxicity to aquatic algae and cyanobacteria

NOEC, 72h, 0.24 mg/L.

Toxicity to microorganisms

EC50, 24h, 1.7 mg/L

## **Isopropyl myristate**

Short-term toxicity to fish

LC50, Lepomis macrochirus, 96h, > 1000 mg/L

Short-term toxicity to aquatic invertebrates

No effects up to the limit of water solubility.

Long-term toxicity to aquatic invertebrates

No long-term effects on reproduction of invertebrates are expected with Isopropyl myristate up to the limit of water solubility.

Toxicity to aquatic algae and cyanobacteria

No effects up to the limit of water solubility.

Toxicity to microorganisms

No effects up to the limit of water solubility.

## **Hedione**

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Short-term toxicity to fish

LC50, Orange Killifish (*Oryzias latipes*), 96h, 19 mg/L

NOEC, Orange Killifish (*Oryzias latipes*), 96h, 2.0 mg/L

Short-term toxicity to aquatic invertebrates

EC50, *Daphnia magna*, 48h, 8.25 mg/l

Long-term toxicity to aquatic invertebrates

EC10, 21d, > 1.82 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 45.9 mg/L

NOEC, 72h, 11.7 mg/L

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

Short-term toxicity to fish

LC50, 96h, >85 mg/L

Short-term toxicity to aquatic invertebrates

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

## Anisaldehyde

Short-term toxicity to fish

LC50, 148.32 mg/l

Short-term toxicity to aquatic invertebrates

EC50, 48h, 82.8 mg/l

Toxicity to aquatic algae and cyanobacteria

EC50, 61 mg/l, OECD TG 201

NOEC, 0.65 mg/L, OECD TG 201

Toxicity to microorganisms

EC50, 30 min, 850 mg/L

## 12.2 Persistence and degradability

Vanillin

Readily biodegradable

Biodegradation: 97%

Exposure time: 14d

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

Not readily biodegradable



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Isopropyl myristate  
readily biodegradable  
Biodegradation: 91.4%  
Exposure time: 28d  
Method: OECD 301B

Hedione  
readily biodegradable

2-ethyl-3-hydroxy-4-pyrone  
readily biodegradable  
Biodegradation: 104.4%  
Exposure time: 28d  
Method: OECD Guideline 301 B

Anisaldehyde  
readily biodegradable  
Biodegradation: 97%  
Exposure time: 6d  
Method: OECD guideline 301 E

## 12.3 Bioaccumulative potential

Vanillin

The study does not need to be conducted because the substance has a low potential for bioaccumulation based on  $\log K_{ow} \leq 3$

2,6-di-tert-butyl-p-cresol  
Moderate potential to accumulate in aquatic organisms.  
BCF = 1277

Isopropyl myristate  
The substance is not bioaccumulative.

2-ethyl-3-hydroxy-4-pyrone  
BCF, 232 L/kg ww

Anisaldehyde  
Based on the measured  $\log P_{ow}$  of 1.63 bioaccumulation of the substance is not expected.

## 12.4 Mobility in soil

Vanillin  
Koc: 4898(20 °C)

2,6-di-tert-butyl-p-cresol  
Koc: 23 030(20 °C)  
Log Koc: 4.362

Isopropyl myristate  
There is a high adsorption of Isopropyl myristate to soil and sediment particles.  
Log Koc: 4.83

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

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Anisaldehyde

Koc, 10(25 °C)

## 12.5 Results of PBT and vPvB assessment

### 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).

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

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).

### Isopropyl myristate

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).

### Hedione

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).

### Anisaldehyde

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.

### 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.

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

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.

### Isopropyl myristate

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.

### Hedione

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

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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.

## Anisaldehyde

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

### Vanillin

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

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

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

### Isopropyl myristate

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

### Hedione

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.

### Anisaldehyde

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

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

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## 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

### 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.**

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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.

|      |  |
|------|--|
| H302 | Harmful if swallowed                                 |
| H319 | Causes serious eye irritation                        |
| H410 | Very 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  |
| 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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