

Safety data sheet

according to Regulation (EU) No 2020/878



Product name : Car air freshener - Cherry - Organic Tin
Version: 1.0

Issue Date : 01/04/2026
Print date : 01/04/2026

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

1.1 Product identifier

Product name : Car air freshener - Cherry - Organic Tin

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 : zoey@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 (CLP) and amendment (EU) 2024/197

Skin Sens. 1B H317
Aquatic Chronic 2 H411

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



Signal word: Warning

Hazard statements:

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H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see supplemental first aid instruction on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
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

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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.

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 |
|---|---------------------------|---------------|---------------------------------|--|
| - | - | 33.33% | Soft wood | - |
| CASRN 100-52-7 EC-No. 202-860-4 Index-No. 605-012-00-5 | - | 17.73% | 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. - | - | 9.47% | (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 |
| CASRN 88-41-5 EC-No. 201-828-7 | - | 8.87% | Verdox | Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: |

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| | | | | |
|---|---|-------|--------------------------------|--|
| Index-No. - | | | | LD50, Rat, >2000 mg/kg, estimated Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbit, >2000 mg/kg, estimated |
| CASRN 101-86-0 EC-No. 202-983-3 Index-No. - | - | 5.07% | α -hexylcinnamaldehyde | Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: LD50, Rat, >2000 mg/kg, estimated Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbit, >2000 mg/kg, estimated |
| CASRN 1222-05-5 EC-No. 214-946-9 Index-No. - | - | 2.87% | Galaxolide | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute toxicity estimate Acute oral toxicity: LD50, rat, > 2 000 mg/kg bw Acute inhalation toxicity: LC50, > 5.04 mg/L air Acute dermal toxicity LD50, rat, > 2 000 mg/kg bw |
| CASRN 121-32-4 EC-No. 204-464-7 Index-No. - | - | 2.87% | 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 103-36-6 | - | 2.80% | Ethyl cinnamate | Not classified |

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| | | | | |
|---|---|-------|-----------------------------------|---|
| EC-No. 203-104-6 Index-No. - | | | | Acute toxicity estimate Acute oral toxicity: LD50, rat, > 3200 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, > 5 000 mg/kg bw |
| CASRN 140-11-4 EC-No. 205-399-7 Index-No. - | - | 2.73% | Benzyl acetate | Aquatic Chronic 3, H412 Acute toxicity estimate Acute oral toxicity: LD50, rat, 2000 mg/kg Acute inhalation toxicity: LCLo, rat, 4h, > 0.766 mg/L air Acute dermal toxicity LD50, rabbit, > 5g/kg bw |
| CASRN 63500-71-0 EC-No. 405-040-6 Index-No. - | - | 2.47% | Florol | Eye Irrit. 2, H319 Acute toxicity estimate Acute oral toxicity: LD50, rat, > 2 000 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbit, >2.0g/kg |
| CASRN 100-51-6 EC-No. 202-859-9 Index-No. 603-057-00-5 | - | 2.40% | Benzyl alcohol | Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Acute toxicity estimate Acute oral toxicity: LD50, rat, 1200 mg/kg bw Acute inhalation toxicity: LC50, rat, 4h, > 4178 mg/m ³ air Acute dermal toxicity LD50, rabbit, > 2 000 mg/kg bw |
| CASRN 32210-23-4 EC-No. | - | 2.33% | 4-tert-butylcyclohexyl acetate | Skin Sens. 1B, H317 Acute toxicity estimate |

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| | | | | |
|--|---|-------|-------------------|--|
| 250-954-9 Index-No. - | | | | Acute oral toxicity: LD50, rat, ca. 3370 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbit, > 4680 mg/kg bw |
| CASRN 2050-08-0 EC-No. 218-080-2 Index-No. - | - | 2.20% | Pentyl salicylate | Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute toxicity estimate Acute oral toxicity: LD50, rat, 300 - 2000 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, >2000 mg/kg bw, estimated |
| CASRN 5989-27-5 EC-No. 227-813-5 Index-No. 601-096-00- 2 | - | 2.20% | D-Limonene | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Acute toxicity estimate Acute oral toxicity: LD50, rat, >2000 mg/kg Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbits, >5000 mg/kg bw |
| CASRN 123-11-5 EC-No. 204-602-6 Index-No. - | - | 2.13% | Anisaldehyde | Not classified Acute toxicity estimate Acute oral toxicity: LD50, rat, 3210 mg/kg bw Acute inhalation toxicity: LC50, 7 h, 0.32 mg/L Acute dermal toxicity |

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| | | | | |
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| | | | | LD50, rabbit, > 5 000 mg/kg bw |
| CASRN 106-02-5 EC-No. 203-354-6 Index-No. - | - | 0.20% | Pentadecan-15-olide | Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: LD50, > 2 000 mg/kg bw Acute inhalation toxicity: LC50, rat, >5.0 mg/L air, estimated Acute dermal toxicity LD50, rat, > 2000 mg/kg bw |
| CASRN 97-53-0 EC-No. 202-589-1 Index-No. - | - | 0.20% | Eugenol | Skin Sens. 1B, H317 Eye Irrit. 2, H319 Acute toxicity estimate Acute oral toxicity: LD50, mouse, 1,500 - 3,000 mg/kg Acute inhalation toxicity: LC50, 4h, >5 mg/L Acute dermal toxicity LD50, rabbit, >2000 mg/kg bw, estimated |
| CASRN 128-37-0 EC-No. 204-881-4 Index-No. - | - | 0.13% | 2,6-di-tert-butyl-p-cresol | Aquatic Chronic 1, H410 Acute toxicity estimate Acute oral toxicity: LD50, rat, 24h, >6000 mg/kg Acute inhalation toxicity: RD50, 59.7 ml/m3 Acute dermal toxicity 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.

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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.

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 : Manually collect product and place in containers for recovery or disposal.

6.4 Reference to other sections

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

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

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Component | Regulation | Type of listing | Value |
|---------------------------------|------------------------------------|-----------------|------------------|
| (2-methoxymethylethoxy)propanol | COMMISSION DIRECTIVE 2000/39/EC | TWA | 308 mg/m3 50 ppm |

8.2 Exposure controls

Engineering controls : Not required under normal conditions of use.

Eye protection : Not required for normal handling.

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

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.

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

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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 soluble
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

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.

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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

Eye contact, Skin contact, Inhalation

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

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

(2-methoxymethylethoxy)propanol

LD50, rat, > 5 000 mg/kg bw, OECD Guideline 401

Verdox

LD50, Rat, >2000 mg/kg, estimated

α -hexylcinnamaldehyde

LD50, Rat, >2000 mg/kg, estimated

Galaxolide

LD50, rat, > 2 000 mg/kg bw

3-ethoxy-4-hydroxybenzaldehyde

LD50, rat, > 3160 mg/kg bw

Ethyl cinnamate

LD50, rat, > 3200 mg/kg bw

Benzyl acetate

LD50, rat, 2000 mg/kg

Florol

LD50, rat, > 2 000 mg/kg bw

Benzyl alcohol

LD50, rat, 1200 mg/kg bw

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4-tert-butylcyclohexyl acetate

LD50, rat, ca. 3370 mg/kg bw, OECD Guideline 401

Pentyl salicylate

LD50, rat, 300 - 2000 mg/kg bw

D-Limonene

LD50, rat, >2000 mg/kg

Anisaldehyde

LD50, rat, 3210 mg/kg bw

Pentadecan-15-olide

LD50, > 2 000 mg/kg bw

Eugenol

LD50, mouse, 1,500 - 3,000 mg/kg

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

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

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:

Benzaldehyde

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

(2-methoxymethylethoxy)propanol

LD50, rabbit, >2000 mg/kg bw

Verdox

LD50, rabbit, >2000 mg/kg, estimated

α -hexylcinnamaldehyde

LD50, rabbit, >2000 mg/kg, estimated

Galaxolide

LD50, rat, > 2 000 mg/kg bw

3-ethoxy-4-hydroxybenzaldehyde

LD50, rat, > 2 000 mg/kg bw

Ethyl cinnamate

LD50, rabbit,
> 5 000 mg/kg bw

Benzyl acetate

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LD50, rabbit, > 5g/kg bw

Florol

LD50, rabbit, >2.0g/kg

Benzyl alcohol

LD50, rabbit, > 2 000 mg/kg bw

4-tert-butylcyclohexyl acetate

LD50, rabbit, > 4680 mg/kg bw

Pentyl salicylate

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

D-Limonene

LD50, rabbits, >5000 mg/kg bw

Anisaldehyde

LD50, rabbit, > 5 000 mg/kg bw

Pentadecan-15-olide

LD50, rat, > 2000 mg/kg bw

Eugenol

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

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

LD50, rat, 2000 mg/kg bw.

Acute inhalation toxicity

Information for the Product:

Shall not be classified as acutely toxic (inhalation).

As product: The LC50 has not been determined.

Based on information for component(s): LC50, rat, >20 mg/L air, estimated

Information for components:

Benzaldehyde

LC50, rat, 4h, 1.0 – 5 mg/L

(2-methoxymethylethoxy)propanol

LC0, rat, 7h, > 275 ppm

Verdox

LC50, rat, >20 mg/L, estimated

α -hexylcinnamaldehyde

LC50, rat, >20 mg/L, estimated

Galaxolide

LC50, > 5.04 mg/L air

3-ethoxy-4-hydroxybenzaldehyde

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

Ethyl cinnamate

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

Benzyl acetate

LCLo, rat, 4h, > 0.766 mg/L air

Florol

LC50, rat, >20 mg/L, estimated

Benzyl alcohol

LC50, rat, 4h, > 4178 mg/m³ air

4-tert-butylcyclohexyl acetate

LC50, rat, >20 mg/L, estimated

Pentyl salicylate

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

D-Limonene

LC50, rat, >20 mg/L, estimated

Anisaldehyde

LC50, 7 h, 0.32 mg/L

Pentadecan-15-olide

LC50, rat, >5.0 mg/L air, estimated

Eugenol

LC50, 4h, >5 mg/L

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

RD50, 59.7 ml/m³

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

(2-methoxymethylethoxy)propanol

Shall not be classified as corrosive/irritant to skin

Verdox

Shall not be classified as corrosive/irritant to skin

α -hexylcinnamaldehyde

Shall not be classified as corrosive/irritant to skin

Galaxolide

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Shall not be classified as corrosive/irritant to skin

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as corrosive/irritant to skin

Ethyl cinnamate

Shall not be classified as corrosive/irritant to skin

Benzyl acetate

Shall not be classified as corrosive/irritant to skin

Florol

Shall not be classified as corrosive/irritant to skin

Benzyl alcohol

Shall not be classified as corrosive/irritant to skin

4-tert-butylcyclohexyl acetate

Shall not be classified as corrosive/irritant to skin

Pentyl salicylate

Shall not be classified as corrosive/irritant to skin

D-Limonene

Causes skin irritation

Anisaldehyde

Shall not be classified as corrosive/irritant to skin

Pentadecan-15-olide

Shall not be classified as corrosive/irritant to skin

Eugenol

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

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

(2-methoxymethylethoxy)propanol

Shall not be classified as irritant to eye

Verdox

Shall not be classified as irritant to eye

α -hexylcinnamaldehyde

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Shall not be classified as irritant to eye

Galaxolide

Shall not be classified as irritant to eye

3-ethoxy-4-hydroxybenzaldehyde

Causes serious eye irritation

Ethyl cinnamate

Shall not be classified as irritant to eye

Benzyl acetate

Shall not be classified as irritant to eye

Florol

Causes serious eye irritation

Benzyl alcohol

Causes serious eye irritation

4-tert-butylcyclohexyl acetate

Shall not be classified as irritant to eye

Pentyl salicylate

Shall not be classified as irritant to eye

D-Limonene

Shall not be classified as irritant to eye

Anisaldehyde

Shall not be classified as irritant to eye

Pentadecan-15-olide

Shall not be classified as irritant to eye

Eugenol

Causes serious eye irritation

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

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 sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

(2-methoxymethylethoxy)propanol

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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.

Verdox

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

α -hexylcinnamaldehyde

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Galaxolide

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.

Ethyl cinnamate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Benzyl acetate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Florol

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Benzyl alcohol

For skin sensitization:

May cause an allergic skin reaction

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For respiratory sensitization:
Shall not be classified as a respiratory sensitiser.

4-tert-butylcyclohexyl acetate

For skin sensitization:
May cause an allergic skin reaction
For respiratory sensitization:
Shall not be classified as a respiratory sensitiser.

Pentyl salicylate

For skin sensitization:
Shall not be classified as a skin sensitiser
For respiratory sensitization:
Shall not be classified as a respiratory sensitiser.

D-Limonene

For skin sensitization:
May cause an allergic skin reaction
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.

Pentadecan-15-olide

For skin sensitization:
Shall not be classified as a skin sensitiser
For respiratory sensitization:
Shall not be classified as a respiratory sensitiser.

Eugenol

For skin sensitization:
May cause an allergic skin reaction
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.

Germ cell mutagenicity

Information for the Product:
Shall not be classified as germ cell mutagenic.

Information for components:

Safety data sheet

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Benzaldehyde

Shall not be classified as germ cell mutagenic

(2-methoxymethylethoxy)propanol

Shall not be classified as germ cell mutagenic

Verdox

Shall not be classified as germ cell mutagenic

α -hexylcinnamaldehyde

Shall not be classified as germ cell mutagenic

Galaxolide

Shall not be classified as germ cell mutagenic

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as germ cell mutagenic

Ethyl cinnamate

Shall not be classified as germ cell mutagenic

Benzyl acetate

Shall not be classified as germ cell mutagenic

Florol

Shall not be classified as germ cell mutagenic

Benzyl alcohol

Shall not be classified as germ cell mutagenic

4-tert-butylcyclohexyl acetate

Shall not be classified as germ cell mutagenic

Pentyl salicylate

Shall not be classified as germ cell mutagenic

D-Limonene

Shall not be classified as germ cell mutagenic

Anisaldehyde

Shall not be classified as germ cell mutagenic

Pentadecan-15-olide

Shall not be classified as germ cell mutagenic

Eugenol

Shall not be classified as germ cell mutagenic

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

Shall not be classified as germ cell mutagenic

Carcinogenicity

Information for the Product:

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Shall not be classified as carcinogenic.

Information for components:

Benzaldehyde

Shall not be classified as carcinogenic

(2-methoxymethylethoxy)propanol

Shall not be classified as carcinogenic

Verdox

Shall not be classified as carcinogenic

α -hexylcinnamaldehyde

Shall not be classified as carcinogenic

Galaxolide

Shall not be classified as carcinogenic

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as carcinogenic

Ethyl cinnamate

Shall not be classified as carcinogenic

Benzyl acetate

Shall not be classified as carcinogenic

Florol

Shall not be classified as carcinogenic

Benzyl alcohol

Shall not be classified as carcinogenic

4-tert-butylcyclohexyl acetate

Shall not be classified as carcinogenic

Pentyl salicylate

Shall not be classified as carcinogenic

D-Limonene

Shall not be classified as carcinogenic

Anisaldehyde

Shall not be classified as carcinogenic

Pentadecan-15-olide

Shall not be classified as carcinogenic

Eugenol

Shall not be classified as carcinogenic

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

Shall not be classified as carcinogenic

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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

(2-methoxymethylethoxy)propanol

Shall not be classified as a reproductive toxicant

Verdox

Shall not be classified as a reproductive toxicant

α -hexylcinnamaldehyde

Shall not be classified as a reproductive toxicant

Galaxolide

Shall not be classified as a reproductive toxicant

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as a reproductive toxicant

Ethyl cinnamate

Shall not be classified as a reproductive toxicant

Benzyl acetate

Shall not be classified as a reproductive toxicant

Florol

Shall not be classified as a reproductive toxicant

Benzyl alcohol

Shall not be classified as a reproductive toxicant

4-tert-butylcyclohexyl acetate

Shall not be classified as a reproductive toxicant

Pentyl salicylate

Shall not be classified as a reproductive toxicant

D-Limonene

Shall not be classified as a reproductive toxicant

Anisaldehyde

Shall not be classified as a reproductive toxicant

Pentadecan-15-olide

Shall not be classified as a reproductive toxicant

Eugenol

Shall not be classified as a reproductive toxicant

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

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)

(2-methoxymethylethoxy)propanol

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

Verdox

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

α -hexylcinnamaldehyde

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

Galaxolide

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)

Ethyl cinnamate

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

Benzyl acetate

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

Florol

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

Benzyl alcohol

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

4-tert-butylcyclohexyl acetate

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

Pentyl salicylate

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

D-Limonene

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)

Pentadecan-15-olide

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

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Eugenol

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

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

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)

(2-methoxymethylethoxy)propanol

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

Verdox

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

α -hexylcinnamaldehyde

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

Galaxolide

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)

Ethyl cinnamate

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

Benzyl acetate

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

Florol

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

Benzyl alcohol

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

4-tert-butylcyclohexyl acetate

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

Pentyl salicylate

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

D-Limonene

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)

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Pentadecan-15-olide

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

Eugenol

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)

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

(2-methoxymethylethoxy)propanol

Shall not be classified as presenting an aspiration hazard

Verdox

Shall not be classified as presenting an aspiration hazard

α -hexylcinnamaldehyde

Shall not be classified as presenting an aspiration hazard

Galaxolide

Shall not be classified as presenting an aspiration hazard

3-ethoxy-4-hydroxybenzaldehyde

Shall not be classified as presenting an aspiration hazard

Ethyl cinnamate

Shall not be classified as presenting an aspiration hazard

Benzyl acetate

Shall not be classified as presenting an aspiration hazard

Florol

Shall not be classified as presenting an aspiration hazard

Benzyl alcohol

Shall not be classified as presenting an aspiration hazard

4-tert-butylcyclohexyl acetate

Shall not be classified as presenting an aspiration hazard

Pentyl salicylate

Shall not be classified as presenting an aspiration hazard

D-Limonene

May be fatal if swallowed and enters airways

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Anisaldehyde

Shall not be classified as presenting an aspiration hazard

Pentadecan-15-olide

Shall not be classified as presenting an aspiration hazard

Eugenol

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

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:

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.

(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.

Verdox

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.

α -hexylcinnamaldehyde

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.

Galaxolide

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.

Ethyl cinnamate

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.

Benzyl 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.

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Florol

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.

Benzyl alcohol

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-tert-butylcyclohexyl 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.

Pentyl salicylate

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.

D-Limonene

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.

Pentadecan-15-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.

Eugenol

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.

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.

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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

(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

Toxicity to microorganisms
EC10 or NOEC, 4168 mg/L

Galaxolide

Short-term toxicity to fish
LC50, 96h, 0.95 mg/l

Long-term toxicity to fish
NOEC, 32d, > 0.068 mg/l

Short-term toxicity to aquatic invertebrates
EC50, 48h, Daphnia magna, 0.194 mg/l, OECD TG 202
LC50, 48h, Acartia tonsa, 0.47 mg/l, OECD TG 202

Long-term toxicity to aquatic invertebrates
NOEC, 21d, Daphnia magna, 0.111 mg/l, OECD TG 202
EC10, 6d, Acartia tonsa, 0.044 mg/l

Toxicity to aquatic algae and cyanobacteria
NOEC, 0.201 mg/l

Toxicity to microorganisms
NOEC, 5d, 10 mg/l, OECD TG301D

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

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

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

Ethyl cinnamate

Short-term toxicity to fish
LC50, Danio rerio, 96h, 3.21 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates
EC50, 48h, 12.1 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, 96 h, 5.45 mg/L

Toxicity to microorganisms
NOEC, 2 mg/L

Benzyl acetate

Short-term toxicity to fish
LC50, Oryzias latipes, 96h, 4 mg/L

Long-term toxicity to fish
NOEC, 28d, 0.92 mg/L

Short-term toxicity to aquatic invertebrates
EC50, Daphnia, 48h, 17 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria
EC50, Alga, 72h, 92 mg/L, OECD Guideline 201
NOEC, Alga, 72h, 52 mg/L, OECD Guideline 201

Toxicity to microorganisms
EC50, 3h, 855 mg/L

Florol

Short-term toxicity to fish
High probability acutely not harmful to fish
LC50, 96h, 354 mg/L, OECD guideline 203

Short-term toxicity to aquatic invertebrates
With high probability acutely not harmful to aquatic invertebrates.
EC50, Daphnia magna, ca. 320 mg/l, OECD guideline 202

Toxicity to aquatic algae and cyanobacteria
EC50, Desmodesmus subspicatus, 72h, >100 mg/l, OECD guideline 201

Toxicity to microorganisms

The inhibition of the degradation activity of activated sludge is not anticipated when pyranol is introduced in appropriate low concentrations.

EC50, activated sludge, 3h, >1000 mg/L, OECD guideline 209.

Benzyl alcohol

Short-term toxicity to fish
Has a very low toxicity to fish.

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LC50, 96h, 460 mg/L
Long-term toxicity to fish
NOEC, 30d, 48.897 mg/L

Short-term toxicity to aquatic invertebrates
EC50, 48h, 230 mg/L

Long-term toxicity to aquatic invertebrates
EC50, 21d, 66 mg/L, OECD Guideline 211
NOEC, 21d, 51 mg/L, OECD Guideline 211

Toxicity to aquatic algae and cyanobacteria
EC50, Pseudokirchnerella subcapitata, 72h, 770 mg/L
NOEC, Pseudokirchnerella subcapitata, 72h, 310 mg/L.

Toxicity to microorganisms
EC50, Nitrosomonas, 24h, 390 mg/L

4-tert-butylcyclohexyl acetate

Short-term toxicity to fish
LC50, 96h, 8.6 mg/L, EU Method C.1

Short-term toxicity to aquatic invertebrates
EC50, Daphnia magna, 48h, 5.3 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria
ErC50, 72h, 22 mg/L, OECD Guideline 201
NOEC, 6.8 mg/L, OECD Guideline 201

Toxicity to microorganisms
EC50, 3h, 302 mg/L, EC Guideline 88/302/EC
EC10, 3h, 122 mg/L, EC Guideline 88/302/EC

D-Limonene

Short-term toxicity to fish
LC50 or EC50, fathead minnow, 96h, 720µg/L

Long-term toxicity to fish
EC10, 0.37 mg/L

Short-term toxicity to aquatic invertebrates
EC50, Daphnia magna, 48h, 0.307 mg/L, Guideline OECD 202

Long-term toxicity to aquatic invertebrates
EC10, 21d, 0.153 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, algae, 0.32 mg/L
EC10, algae, 0.174 mg/L.

Toxicity to microorganisms
EC50, activated sludge, 209 mg/L, respiration rate
EC10, activated sludge, 18 mg/L, respiration rate

Anisaldehyde

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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

Pentadecan-15-olide

Long-term toxicity to fish

NOEC, 33d, 0.027 mg/L

Long-term toxicity to aquatic invertebrates

NOEC, 21d, 0.068 mg/L

Toxicity to aquatic algae and cyanobacteria

ErC10, 72h, 0.42 mg/L

Toxicity to microorganisms

NOEC, 100 mg/L

Eugenol

Short-term toxicity to fish

LC50, 96h, 13 mg/L, OECD guideline 203

Long-term toxicity to fish

NOEC, 33d, 2.015 mg/L

Short-term toxicity to aquatic invertebrates

EC50, 48h, 1.13 mg/L, OECD guideline 202

Long-term toxicity to aquatic invertebrates

NOEC, daphnia, 21d, 7.07 mg/L

Toxicity to aquatic algae and cyanobacteria

ErC50, 72h, 24 mg/L, OECD guideline 201,

NOEC, 72h, 23 mg/L, OECD guideline 201,

Toxicity to microorganisms

Does not need to be conducted as the substance is readily biodegradable.

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

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Toxicity to aquatic algae and cyanobacteria
NOEC, 72h, 0.24 mg/L.

Toxicity to microorganisms
EC50, 24h, 1.7 mg/L

12.2 Persistence and degradability

Benzaldehyde

Readily biodegradable
Biodegradation: 95%
Exposure time: 28d

(2-methoxymethylethoxy)propanol

Readily biodegradable
Biodegradation: 79%
Exposure time: 28d
Method: OECD 301 F

Galaxolide

not biodegradable

3-ethoxy-4-hydroxybenzaldehyde

Readily biodegradable
Biodegradation: 88%, 98% and 100%
Exposure time: 14d
Method: OECD 301 C

Ethyl cinnamate

Readily biodegradable
Biodegradation: 77%
Exposure time: 14d
Method: OECD Guideline 301 D

Benzyl acetate

Readily biodegradable
Biodegradation: 100.9%
Exposure time: 28d
Method: OECD Guideline 301 B

Florol

Inherently biodegradable
Biodegradation: 64.8%
Exposure time: 60d

Benzyl alcohol

Readily biodegradable
Biodegradation: 92-96 %
Exposure time: 14d
Method: OECD Guideline 301 A

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4-tert-butylcyclohexyl acetate

Readily biodegradable
Biodegradation: 75%
Exposure time: 28d
Method: EU Method C.4-C

D-Limonene

Readily biodegradable
Biodegradation: 71.4%
Exposure time: 28d

Anisaldehyde

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

Pentadecan-15-olide

Readily biodegradable
Biodegradation: 90%
Exposure time: 28d
Method: OECD Guideline 310F

Eugenol

Readily biodegradable
Biodegradation: 74%
Exposure time: 14d

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

Not Readily biodegradable

12.3 Bioaccumulative potential

Benzaldehyde

Log Kow, 1.4

(2-methoxymethylethoxy)propanol

log Kow < 1

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

Verdox

BCF : 77 L/kg

Galaxolide

BCF, 1584 L/kg ww

3-ethoxy-4-hydroxybenzaldehyde

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

Benzyl acetate

The substance is not expected to bioaccumulate in living organisms.

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BCF: 8

Florol

Not expected to accumulate in organisms.

Benzyl alcohol

BCF: 1.37 L/kg ww

4-tert-butylcyclohexyl acetate

The substance is not considered highly bioaccumulable.

BCF: 334.6 L/kg estimated

log BCF: 2.524

D-Limonene

Readily biodegradable

Anisaldehyde

Based on the measured log Pow of 1.63 bioaccumulation of the substance is not expected.

Pentadecan-15-olide

BCF, 500-1000

Eugenol

The substance has a log Kow of ≤ 3 and it is readily biodegradable.

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

Moderate potential to accumulate in aquatic organisms.

BCF = 1277

12.4 Mobility in soil

Benzaldehyde

Koc: 56(20 °C)

(2-methoxymethylethoxy)propanol

Has a low potential for sorption to organic matter.

Verdox

Koc: 117

Galaxolide

Koc, 14 300(20 °C)

3-ethoxy-4-hydroxybenzaldehyde

Koc, 1 236(20 °C)

Ethyl cinnamate

Koc, 366.5(20 °C)

Benzyl acetate

Koc: 250(20 °C)

Florol

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Adsorption to solid soil phase is not expected.

log Koc: 1.62

Koc: 41.48

Benzyl alcohol

Koc: 15.7(20 °C)

4-tert-butylcyclohexyl acetate

The substance is environmentally slightly mobile in soils

Koc: 3923(20 °C)

LogKoc: 3.59

D-Limonene

Koc: 2413(20 °C)

LogKoc: 3.383

Anisaldehyde

Koc, 10(25 °C)

Pentadecan-15-olide

Koc, 44500(20 °C)

Eugenol

The substance is expected to have a low potential for adsorption since it has a log Kow of ≤ 3 and is readily biodegradable.

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

Koc: 23 030(20 °C)

Log Koc: 4.362

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).

(2-methoxymethylethoxy)propanol

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).

Verdox

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).

α -hexylcinnamaldehyde

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).

Galaxolide

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

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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).

Ethyl cinnamate

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).

Benzyl 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).

Florol

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).

Benzyl alcohol

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-tert-butylcyclohexyl 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).

Pentyl salicylate

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).

D-Limonene

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).

Pentadecan-15-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).

Eugenol

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).

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.

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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.

(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.

Verdax

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.

α -hexylcinnamaldehyde

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.

Galaxolide

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.

Ethyl cinnamate

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.

Benzyl 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.

Florol

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.

Benzyl alcohol

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-tert-butylcyclohexyl 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.

Pentyl salicylate

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.

D-Limonene

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.

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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.

Pentadecan-15-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.

Eugenol

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.

12.7 Other adverse effects

Benzaldehyde

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.

Verdox

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

α -hexylcinnamaldehyde

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

Galaxolide

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.

Ethyl cinnamate

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

Benzyl acetate

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

Florol

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

Benzyl alcohol

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

4-tert-butylcyclohexyl acetate

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

Pentyl salicylate

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

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D-Limonene

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.

Pentadecan-15-olide

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

Eugenol

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.

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 regulated for transport
- 14.3. Transport hazard class(es): : not applicable
- 14.4. Packing group : not applicable
- 14.5. Environmental hazards : not considered environmentally hazardous based on available data.
- 14.6. Special precautions for user : no data available

Sea transport

IMDG

- 14.1. UN number : not applicable
- 14.2. UN proper shipping name: : not regulated for transport
- 14.3. Transport hazard class(es): : not applicable
- 14.4. Packing group : not applicable
- 14.5. Environmental hazards : not considered as marine pollutant based on available data.

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14.6. Special precautions : no data available
for user

14.7. Maritime transport : Consult IMO regulations before transporting ocean bulk
in bulk according to IMO
instruments

Air transport

IATA/ICAO

14.1. UN number: : not applicable

14.2. UN proper shipping : not regulated for transport
name:

14.3. Transport hazard : not applicable
class(es):

14.4. Packing group: : not applicable

14.5. Environmental : not applicable
hazards:

14.6. Special precautions : no data available
for user

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.

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 sections 2 and 3:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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| | |
|---------|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| 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 |

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.