

Safety data sheet

according to Regulation (EU) No 2020/878



Product name: Car Air Freshener- Tropical

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- Tropical

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

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4	H302
Skin Sens. 1	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

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

Hazard pictograms



Signal word:

Warning

Hazard statements:

H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P264 Wash exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P273 Avoid release to the environment.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see section 4 on this SDS)
P363 Wash contaminated clothing before reuse.
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:

H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

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P102	Keep out of reach of children.
P103	Read label before use.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

2.3 Other hazards

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

Endocrine disrupting properties

Environment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Human Health : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008 and amendment (EU) 2024/197
CASRN 34590- 94-8 EC-No. 252-104- 2 Index- No. -	-	40-45%	(2- methoxymethylethoxy)propanol	Not classified Acute toxicity estimate Acute oral toxicity: not classified LD50, rat, > 5 000 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC0, rat, 7h, > 275 ppm Acute dermal toxicity LD50, rabbit, >2000 mg/kg bw

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<p>CASRN 120-51-4 EC-No. 204-402-9 Index- No. 607-085-00-9</p>	-	30-35%	Benzyl benzoate	<p>Acute Tox. 4, H302 Aquatic Chronic 2, H411</p> <p>Acute toxicity estimate Acute oral toxicity:</p> <p>GHS criteria not met LD50, Rat, 1700 mg/kg Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity GHS criteria not met LD50, rabbit, >2 mL/kg bw (~2000 mg/kg bw)</p>
<p>CASRN 2705-87-5 EC-No. 220-292-5 Index- No. -</p>	-	10-15%	Allyl 3-cyclohexylpropionate	<p>Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Sens. 1B, H317 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, 585 mg/kg bw Acute inhalation toxicity: LC50, rat, 10.0-20.0 mg/L bw estimated Acute dermal toxicity LD50, rabbit, 1600 mg/kg bw</p>
<p>CASRN 88-41-5 EC-No. 201-828-7 Index- No. -</p>	-	5-15%	Verdox/otbcha	<p>Aquatic Chronic 2, H411</p> <p>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</p>
<p>CASRN 138-86-3 EC-No. 205-341-0 Index- No. 601-029-00-7</p>	-	1-5%	Limonene	<p>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, 5000 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, >2000 mg/kg bw, estimated</p>

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CASRN 91-64-5 EC-No. 202-086- 7 Index- No. -	-	0.5-1.5%	Coumarin	Acute Tox. 4, H302 Skin Sens. 1, H317 Acute toxicity estimate Acute oral toxicity: LD50, rat , 300-2000 mg/kg bw Acute inhalation toxicity: LC50, rat , >20 mg/L Acute dermal toxicity LD50, rabbit , >2000mg/kg bw
CASRN 78-70-6 EC-No. 201-134- 4 Index- No. 603-235- 00-2	-	0.1-1.0%	Linalool	Skin Sens. 1B, H317 Acute toxicity estimate Acute oral toxicity: GHS criteria not met LD50, rat, 2790 mg/kg, OECD Guideline 401 Acute inhalation toxicity: LC50, female mouse, 1h, >20mg Acute dermal toxicity GHS criteria not met LD50, rabbits, 5610 mg/kg, OECD Guideline 402
CASRN 123-11-5 EC-No. 204-602- 6 Index- No. -	-	0.1-0.5%	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 LD50, rabbit, > 5 000 mg/kg bw
CASRN 5392-40- 5 EC-No. 226-394- 6 Index- No. 605-019- 00-3	-	0.1-0.5%	Citral	Skin Irrit. 2, H315 Skin Sens. 1, H317 Acute toxicity estimate Acute oral toxicity: LD50, rat, ca. 6 800 mg/kg bw Acute inhalation toxicity: No mortality observed after 7 hours of exposure to an atmosphere enriched with the volatile parts of the compound at 20°C. Acute dermal toxicity LD50, rat, > 2 000 mg/kg bw

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CASRN 100-52-7 EC-No. 202-860- 4 Index- No. 605-012- 00-5	-	0.01-0.1%	Benzaldehyde	Acute Tox. 4, H302 Acute toxicity estimate Acute oral toxicity: Toxicity Category IV LD50, Rat, 1430 mg/kg bw, OECD guideline 401 Acute inhalation toxicity: Toxicity Category IV LC50, rat, 4h, 1.0 – 5 mg/L Acute dermal toxicity Not classified LD50, rabbit, >2,000 mg/kg bw.
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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)

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no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical name	Occupational Exposure Limits		Regulation
(2-methoxymethylethoxy) propanol	TWA	308 mg/m ³	EU occupational exposure limit values

8.2 Exposure controls

- Engineering controls** : Not required under normal conditions of use.
- Eye protection : Not required for normal handling. Wear eye/face protection.
- Hand protection : Not required under normal conditions of use. Wear protective gloves to handle contents of damaged or leaking units.
- 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

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Flammability (solid, gas)	:	no data available
Upper/lower flammability or explosive limits	:	no data available
Vapour pressure	:	no data available
Vapour density	:	no data available
Relative density	:	no data available
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	not applicable
Explosive properties	:	none
Oxidising properties	:	none

9.2 Other information

no data available

SECTION 10: Stability and Reactivity

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

SECTION 11: Toxicological information

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

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Information on likely routes of exposure

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

Acute Toxicity Endpoints:

Acute oral toxicity

Information for the Product:

Shall not be classified as acutely toxic (oral).

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

Based on information for component(s): LD50, 300-2000 mg/kg Estimated.

Information for components:

Benzyl benzoate
LD50, Rat, 1700 mg/kg

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

Coumarin
LD50, rat , 300-2000 mg/kg bw

Verdox/otbcha
LD50, Rat, >2000 mg/kg, estimated

Linalool
LD50, rat, 2790 mg/kg, OECD Guideline 401

Citral
LD50, rat, ca. 6 800 mg/kg bw

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

Anisaldehyde
LD50, rat, 3210 mg/kg bw

Allyl 3-cyclohexylpropionate
LD50, rat, 585 mg/kg bw

Limonene
LD50, rat, 5000 mg/kg bw

Acute dermal toxicity

Information for the Product:

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Shall not be classified as acutely toxic (dermal).

As product: The dermal LD50 has not been determined.

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

Information for components:

Benzyl benzoate

LC50, rat, >20 mg/L, estimated

Benzaldehyde

LC50, rat, 4h, 1.0 – 5 mg/L

Coumarin

LC50, rat, >20 mg/L

Verdox/otbcha

LC50, rat, >20 mg/L, estimated

Linalool

LC50, female mouse, 1h, >20mg

Citral

No mortality observed after 7 hours of exposure to an atmosphere enriched with the volatile parts of the compound at 20°C.

(2-methoxymethylethoxy)propanol

LC0, rat, 7h, > 275 ppm

Anisaldehyde

LC50, 7 h, 0.32 mg/L

Allyl 3-cyclohexylpropionate

LC50, rat, 10.0-20.0 mg/L bw estimated

Limonene

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

Acute inhalation toxicity

Information for the Product:

Shall not be classified as acutely toxic (inhalation).

As product: The LC50 has not been determined.

Information for components:

Benzyl benzoate

LD50, rabbit, >2 mL/kg bw (~2000 mg/kg bw)

Benzaldehyde

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

Coumarin

LD50, rabbit , >2000mg/kg bw

Verdox/otbcha

LD50, rabbit, >2000 mg/kg, estimated

Linalool

LD50, rabbits, 5610 mg/kg, OECD Guideline 402

Citral

LD50, rat, > 2 000 mg/kg bw

(2-methoxymethylethoxy)propanol

LD50, rabbit, >2000 mg/kg bw

Anisaldehyde

LD50, rabbit, > 5 000 mg/kg bw

Allyl 3-cyclohexylpropionate

LD50, rabbit, 1600 mg/kg bw

Limonene

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

Skin corrosion/irritation

Information for the Product:

Shall not be classified as corrosive/irritant to skin.

Information for components:

Benzyl benzoate

Shall not be classified as corrosive/irritant to skin

Benzaldehyde

Shall not be classified as corrosive/irritant to skin

Coumarin

Shall not be classified as corrosive/irritant to skin

Verdox/otbcha

Shall not be classified as corrosive/irritant to skin

Linalool

Shall not be classified as corrosive/irritant to skin

Citral

Causes skin irritation

(2-methoxymethylethoxy)propanol

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Shall not be classified as corrosive/irritant to skin

Anisaldehyde

Shall not be classified as corrosive/irritant to skin

Allyl 3-cyclohexylpropionate

Shall not be classified as corrosive/irritant to skin

Limonene

Causes skin irritation

Serious eye damage/eye irritation

Information for the Product:

Shall not be classified as irritant to eye.

Information for components:

Benzyl benzoate

Shall not be classified as irritant to eye

Benzaldehyde

Shall not be classified as irritant to eye

Coumarin

Shall not be classified as irritant to eye

Verdox/otbcha

Shall not be classified as irritant to eye

Linalool

Shall not be classified as irritant to eye

Citral

Shall not be classified as irritant to eye

(2-methoxymethylethoxy)propanol

Shall not be classified as irritant to eye

Anisaldehyde

Shall not be classified as irritant to eye

Allyl 3-cyclohexylpropionate

Shall not be classified as irritant to eye

Limonene

Shall not be classified as irritant to eye

Respiratory or skin sensitisation

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May cause an allergic skin reaction.

Information for components:

Benzyl benzoate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Benzaldehyde

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Coumarin

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Verdox/otbcha

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Linalool

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Citral

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

(2-methoxymethylethoxy)propanol

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Anisaldehyde

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Allyl 3-cyclohexylpropionate

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For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Limonene

For skin sensitization:

May cause an allergic skin reaction

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:

Benzyl benzoate

Shall not be classified as germ cell mutagenic

Benzaldehyde

Shall not be classified as germ cell mutagenic

Coumarin

Shall not be classified as germ cell mutagenic

Verdox/otbcha

Shall not be classified as germ cell mutagenic

Linalool

Shall not be classified as germ cell mutagenic

Citral

Shall not be classified as germ cell mutagenic

(2-methoxymethylethoxy)propanol

Shall not be classified as germ cell mutagenic

Anisaldehyde

Shall not be classified as germ cell mutagenic

Allyl 3-cyclohexylpropionate

Shall not be classified as germ cell mutagenic

Limonene

Shall not be classified as germ cell mutagenic

Carcinogenicity

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Shall not be classified as carcinogenic.

Information for components:

Benzyl benzoate
Shall not be classified as carcinogenic

Benzaldehyde
Shall not be classified as carcinogenic

Coumarin
Shall not be classified as carcinogenic

Verdox/otbcha
Shall not be classified as carcinogenic

Linalool
Shall not be classified as carcinogenic

Citral
Shall not be classified as carcinogenic

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

Anisaldehyde
Shall not be classified as carcinogenic

Allyl 3-cyclohexylpropionate
Shall not be classified as carcinogenic

Limonene
Shall not be classified as carcinogenic

Reproductive toxicity

Information for the Product:

Shall not be classified as a reproductive toxicant.

Information for components:

Benzyl benzoate
Shall not be classified as a reproductive toxicant

Benzaldehyde
Shall not be classified as a reproductive toxicant

Coumarin
Shall not be classified as a reproductive toxicant

Verdox/otbcha
Shall not be classified as a reproductive toxicant

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Linalool

Shall not be classified as a reproductive toxicant

Citral

Shall not be classified as a reproductive toxicant

(2-methoxymethylethoxy)propanol

Shall not be classified as a reproductive toxicant

Anisaldehyde

Shall not be classified as a reproductive toxicant

Allyl 3-cyclohexylpropionate

Shall not be classified as a reproductive toxicant

Limonene

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:

Benzyl benzoate

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

Benzaldehyde

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

Coumarin

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

Verdox/otbcha

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

Linalool

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

Citral

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)

Anisaldehyde

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

Allyl 3-cyclohexylpropionate

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

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Limonene

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:

Benzyl benzoate

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

Benzaldehyde

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

Coumarin

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

Verdox/otbcha

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

Linalool

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

Citral

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)

Anisaldehyde

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

Allyl 3-cyclohexylpropionate

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

Limonene

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:

Benzyl benzoate

Shall not be classified as presenting an aspiration hazard

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Benzaldehyde

Shall not be classified as presenting an aspiration hazard

Coumarin

Shall not be classified as presenting an aspiration hazard

Verdox/otbcha

Shall not be classified as presenting an aspiration hazard

Linalool

Shall not be classified as presenting an aspiration hazard

Citral

Shall not be classified as presenting an aspiration hazard

(2-methoxymethylethoxy)propanol

Shall not be classified as presenting an aspiration hazard

Anisaldehyde

Shall not be classified as presenting an aspiration hazard

Allyl 3-cyclohexylpropionate

Shall not be classified as presenting an aspiration hazard

Limonene

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:

Benzyl benzoate

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.

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.

Coumarin

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/otbcha

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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Linalool

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.

Citral

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.

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.

Allyl 3-cyclohexylpropionate

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.

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.

SECTION 12: Ecological information

12.1 Toxicity

Benzyl benzoate

Short-term toxicity to fish

LC50, Brachydanio rerio, 96h, 2.32 mg/L.

Long-term toxicity to fish

EC10, Danio rerio, 35d, 0.032 mg/L

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 3.09 mg/L, OECD 202

NOEC, Daphnia magna, 1.73 mg/L, OECD 202

Long-term toxicity to aquatic invertebrates

NOEC, Daphnia magna, 21d, 0.258 mg/L, OECD Guideline 211

Toxicity to microorganisms

EC50, activated sludge, 3h, >1000 mg/L

Benzaldehyde

Short-term toxicity to fish

Lowest LC50, bluegill, 1.07 mg/L

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

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

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

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

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

Coumarin

Short-term toxicity to fish
LC50, fathead minnow, 96h, 2.94 mg/L

Long-term toxicity to fish
NOEC, 30d, 0.191 mg/L

Long-term toxicity to aquatic invertebrates
NOEC, 21 d, 0.5 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, 96h, 1.452 mg/L

Toxicity to microorganisms
IC50, activated sludge, 3h, 640 mg/L

Verdox/otbcha

Linalool

Short-term toxicity to fish
LC50, Salmo gairdneri, 96h, 27.8 mg/l, OECD guideline 203

Short-term toxicity to aquatic invertebrates
EC50, Daphnia magna, 48h, 59 mg/l, OECD 202, GLP

Toxicity to aquatic algae and cyanobacteria
EC50, Desmodesmus subspicatus, 96h, 156.7 mg/l
EC10, Desmodesmus subspicatus, 96h, 54.3 mg/l

Toxicity to microorganisms
EC50, activated sludge, > 100 mg/l, OECD 209

Citral

Short-term toxicity to fish

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Acutely toxic for fish
LC50, 96h, 6.78 mg/L

Short-term toxicity to aquatic invertebrates
Acutely toxic for aquatic invertebrates.
EC50, Daphnia magna, 48h, 6.8 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, Scenedesmus subspicatus Chodat, 72h, 103.84 mg/L

Toxicity to microorganisms
EC50, 30 min, ca. 160 mg/L, OECD Guideline 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 \geq 0.5 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, > 1000 mg/L

Toxicity to microorganisms
EC10 or NOEC, 4168 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

Allyl 3-cyclohexylpropionate

Short-term toxicity to fish
LC50, 96h, 0.13 mg/L

Long-term toxicity to fish
EC10, 28d, 64 μ g/L

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Short-term toxicity to aquatic invertebrates

EC50, 48h, 3.8 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 3 mg/L

EC10, 72h, 1.6 mg/L

Limonene

Short-term toxicity to fish

LC50, 96h, Oncorhynchus mykiss, 80 ppm

Short-term toxicity to aquatic invertebrates

EC50, 48h, Daphnia magna, 17 ppm

Toxicity to microorganisms

Possibly toxicity to the microorganisms.

12.2 Persistence and degradability

Benzyl benzoate

Readily biodegradable

Biodegradation: 94%

Exposure time: 28d

Method: EU Method C.4-D

Benzaldehyde

Readily biodegradable

Biodegradation: 95%

Exposure time: 28d

Coumarin

Readily biodegradable

Biodegradation: 90%

Exposure time: 28d

Linalool

Readily biodegradable

Biodegradation: 64.2%

Exposure time: 28d

Method: OECD TG 301 D

Citral

readily biodegradable

Biodegradation: >90%

Exposure time: 28d

(2-methoxymethylethoxy)propanol

readily biodegradable

Biodegradation: 79%

Exposure time: 28d

Method: OECD 301 F

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

Allyl 3-cyclohexylpropionate
readily biodegradable
Biodegradation: 86%
Exposure time: 28d
Method: OECD Guideline 301 D

Limonene
Difficult to biodegrade

12.3 Bioaccumulative potential

Benzyl benzoate
Log Kow of 3.97.
The calculated BCF was 193.4 L/kg (log BCF = 2.286).

Benzaldehyde
Log Kow of 1.4

Verdox/otbcha
BCF : 77 L/kg

Linalool
The substance has a low potential for bioaccumulation
log Kow <3

Citral
BCF: 89.72
A significant bioaccumulation of the substance is not expected

(2-methoxymethylethoxy)propanol
log Kow < 1
This substance is not expected to accumulate in biological tissues or bioaccumulate in foodwebs.

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

Allyl 3-cyclohexylpropionate
BCF, 861 L/kg ww

Limonene
BCF, 660, estimated, the potential for bioconcentration in aquatic organisms is high

12.4 Mobility in soil

Benzyl benzoate
Low mobility in soils and sediment.

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log Koc of 3.8 (Koc= 6310 L/kg)

Benzaldehyde
Koc: 56(20 °C)

Coumarin
Koc: 42.66(20 °C)
LogKoc: 1.63

Verdox/otbcha
Koc: 117

Linalool
Koc: 75 L/kg(20 °C)

Citral
Adsorption to solid soil phase is not expected.

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

Anisaldehyde
Koc, 10(25 °C)

Allyl 3-cyclohexylpropionate
Koc, 1819.7(20 °C)

Limonene
Koc, 1,100, estimated, expected to have low mobility in soil

12.5 Results of PBT and vPvB assessment

Benzyl benzoate

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).

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).

Coumarin

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/otbcha

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).

Linalool

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).

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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).

(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).

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).

Allyl 3-cyclohexylpropionate

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).

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).

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.

Benzyl benzoate

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.

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.

Coumarin

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/otbcha

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.

Linalool

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.

Citral

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

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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.

Allyl 3-cyclohexylpropionate

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.

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.

12.7 Other adverse effects

Benzyl benzoate

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

Benzaldehyde

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

Coumarin

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

Verdox/otbcha

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

Linalool

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

Citral

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.

Anisaldehyde

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

Allyl 3-cyclohexylpropionate

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

Limonene

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

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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

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

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14.6. Special precautions : none
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 section 3.

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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

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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.
