

Safety data sheet

according to Regulation (EU) No 2020/878



Product name: Car Air Freshener-New Car

Print date: 27.08.2024

Version 2.0

Issue Date: 27.08.2024

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

1.1 Product identifier

Product name : Car Air Freshener-New Car

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

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

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

Hazard pictograms



Signal word:

Warning

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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:

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

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- 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 120-51-4 EC-No. 204-402-9 Index-No. 607-085-00-9	-	50-55%	Benzyl benzoate	Acute Tox. 4, H302 Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: 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)
CASRN 101-86-0 EC-No. 202-983-3 Index-No. -	-	5-10%	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 140-11-4 EC-No. 205-399-7 Index-No. -	-	1-5%	Benzyl acetate	Not classified 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

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CASRN 88-41-5 EC-No. 201-828-7 Index-No. -	-	1-5%	Verdox/otbcha	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,
CASRN 32210-23-4 EC-No. 250-954-9 Index-No. -	-	1-5%	4-tert-butylcyclohexyl acetate	Skin Sens. 1B, H317 Acute toxicity estimate 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 7493-74-5 EC-No. 231-335-2 Index-No. -	-	1-5%	Allyl phenoxyacetate	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Acute toxicity estimate Acute oral toxicity: LD50, rat, 835 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rat, > 2000 mg/kg bw, OECD Guideline 402
CASRN 1222-05-5 EC-No. 214-946-9 Index-No. -	-	1-5%	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 67634-00-8 EC-No. 266-803-5 Index-No. -	-	1-5%	Allyl (3- methylbutoxy)acetate	Acute Tox. 4, H302 Skin Irrit. 2, H315 Acute toxicity estimate Acute oral toxicity: LD50, rat, ca. 500 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rat, > 2 000 mg/kg bw

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CASRN 115-95-7 EC-No. 204-116-4 Index-No. -	-	1-5%	Linalyl acetate	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute toxicity estimate Acute oral toxicity: LD50, Rat, 14,550 mg/kg Acute inhalation toxicity: LC50, mice, 4h, > 1,028 mg/m3 Acute dermal toxicity LD50, Rabbits, >5000 mg/kg bw
CASRN 97-53-0 EC-No. 202-589-1 Index-No. -	-	1-5%	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 1506-02-1 EC-No. 216-133-4 Index-No. -	-	1-5%	Tonalide	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute toxicity estimate Acute oral toxicity: LD50, rat, 920 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, female rat, 7.94 g/kg
CASRN 8000-27-9 EC-No. 616-769-6 Index-No. -	-	1-5%	Cedarwood oil	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute toxicity estimate Acute oral toxicity: LD50, Rat, >5000 mg/kg Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbit, >5000 mg/kg
CASRN 107-75-5 EC-No. 203-518-7 Index-No. -	-	1-5%	Hydroxycitronellal	Skin Sens. 1B, H317 Eye Irrit. 2, H319 Acute toxicity estimate Acute oral toxicity: LD50, rat, > 6 400 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, > 2 000 mg/kg bw
CASRN 78-70-6 EC-No. 201-134-4 Index-No. 603-235-00-2	-	1-5%	Linalool	Skin Sens. 1B, H317 Acute toxicity estimate Acute oral toxicity: LD50, rat, 2790 mg/kg, OECD Guideline 401 Acute inhalation toxicity: LC50, female mouse, 1h, >20mg Acute dermal toxicity LD50, rabbits, 5610 mg/kg, OECD Guideline 402

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CASRN 79-77- 6/14901- 07-6 EC-No. 201-224-3 Index-No. -	-	1-5%	(E)-4-(2,6,6-trimethyl- 1-cyclohexen-1-yl)-3- buten-2-one	Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: LD50, rat, 4590 mg/kg Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rat, >2000 mg/kg bw
CASRN 104-46-1 EC-No. 203-205-5 Index-No. -	-	0.1-1.0%	Anethole	Skin Sens. 1, H317 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 106-24-1 EC-No. 203-377-1 Index-No. 603-241- 00-5	-	0.1-1.0%	Geraniol	Skin Sens. 1, H317 Acute toxicity estimate Acute oral toxicity: LD50, rat, 3600 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity LD50, rabbit, > 5 000 mg/kg bw
CASRN 120-51-4 EC-No. 204-402-9 Index-No. 607-085- 00-9	-	0.1-1.0%	Benzyl benzoate	Acute Tox. 4, H302 Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: 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)
CASRN 100-51-6 EC-No. 202-859-9 Index-No. 603-057- 00-5	-	0.1-1.0%	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

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CASRN 121-33-5 EC-No. 204-465-2 Index-No. -	-	0.1-1.0%	Vanillin	Eye Irrit. 2, H319 Acute toxicity estimate Acute oral toxicity: Category 5 based on GHS criteria LD50, rat, ca. 3 978 mg/kg bw, EU Method B.1 Acute inhalation toxicity: GHS criteria not met LC50, rat, 4h, >41 mg/m3 Acute dermal toxicity GHS criteria not met LD50, rat, >2000 mg/kg bw, OECD Guideline 402
CASRN 6485-40-1 EC-No. 229-352-5 Index-No. 606-148- 00-8	-	0.1-1.0%	(-)-Carvone	Skin Sens. 1, H317 Acute toxicity estimate Acute oral toxicity: LD50, rat, 5400 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC50, rat, >5.66 mg/l, OECD Guideline 403 Acute dermal toxicity LD50, rat, > 2 000 mg/kg bw
CASRN 118-58-1 EC-No. 204-262-9 Index-No. 607-754- 00-5	-	0.1-1.0%	Benzyl salicylate	Skin Sens. 1B, H317 Acute toxicity estimate Acute oral toxicity: LD50, rats, 2000 mg/kg Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbits, > 2000 mg/kg bw
CASRN 24720-09- 0 EC-No. 246-430-4 Index-No. -	-	0.1-1.0%	alpha-Damascone	Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: LD50, rat, 1670 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rat, 2900 mg/kg bw
CASRN 91-64-5 EC-No. 202-086-7 Index-No. -	-	0.1-1.0%	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

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CASRN 32388-55-9 EC-No. 251-020-3 Index-No. -	-	0.1-1.0%	Acetyl cedrene	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute toxicity estimate Acute oral toxicity: LD50, rat, 4500 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated 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	-	0.1-1.0%	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
CASRN 8000-28-0 EC-No. 616-770-1 Index-No. -	-	0.1-1.0%	Lavender oil	Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412 Acute toxicity estimate Acute oral toxicity: The Oral LD50 was calculated at 6.2 +/- 0.8 mL/kg for male and at 5.0 +/- 0.9 mL/kg bw for female. Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity GHS criteria not met LD50, rabbits, >5000 mg/kg

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.

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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 : 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

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7.1 Precautions for safe handling

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

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available.

8.2 Exposure controls

Engineering controls : Not required under normal conditions of use.

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

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

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

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

Respiratory protection : Not required under normal conditions of use.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: : solid

Odour : accord with standard sample

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Odour threshold	:	no data available
pH	:	no data available
Melting point	:	no data available
Boiling point	:	no data available
Flash point	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper/lower flammability or explosive limits	:	no data available
Vapour pressure	:	no data available
Vapour density	:	no data available
Relative density	:	no data available
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	not applicable
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

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:

Cedarwood oil
LD50, Rat, >5000 mg/kg

Benzyl benzoate
LD50, Rat, 1700 mg/kg

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

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

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

Linalyl acetate
LD50, Rat, 14,550 mg/kg

Anethole
LD50, Rat, >2000 mg/kg, estimated

Geraniol
LD50, rat, 3600 mg/kg bw

α -hexylcinnamaldehyde
LD50, Rat, >2000 mg/kg, estimated

4-tert-butylcyclohexyl acetate

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

Linalool

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

Tonalide

LD50, rat, 920 mg/kg bw, OECD Guideline 401

Allyl phenoxyacetate

LD50, rat, 835 mg/kg bw, OECD Guideline 401

Benzyl acetate

LD50, rat, 2000 mg/kg

Hydroxycitronellal

LD50, rat, > 6 400 mg/kg bw

Benzyl alcohol

LD50, rat, 1200 mg/kg bw

Citral

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

Lavender oil

The Oral LD50 was calculated at 6.2 +/- 0.8 mL/kg for male and at 5.0 +/-0.9 mL/kg bw for female.

Eugenol

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

Benzyl salicylate

LD50, rats, 2000 mg/kg

Allyl (3-methylbutoxy)acetate

LD50, rat, ca. 500 mg/kg bw

Galaxolide

LD50, rat, > 2 000 mg/kg bw

(-)-Carvone

LD50, rat, 5400 mg/kg bw, OECD Guideline 401

alpha-Damascone

LD50, rat, 1670 mg/kg bw

Acetyl cedrene

LD50, rat, 4500 mg/kg bw, OECD Guideline 401

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.

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Information for components:

Cedarwood oil

LC50, rat, >20 mg/L, estimated

Benzyl benzoate

LC50, rat, >20 mg/L, estimated

Vanillin

LC50, rat, 4h, >41 mg/m³

Coumarin

LC50, rat, >20 mg/L

Verdox/otbcha

LC50, rat, >20 mg/L, estimated

Linalyl acetate

LC50, mice, 4h, > 1,028 mg/m³

Anethole

LC50, rat, >20 mg/L, estimated

Geraniol

LC50, rat, >20 mg/L, estimated

α -hexylcinnamaldehyde

LC50, rat, >20 mg/L, estimated

4-tert-butylcyclohexyl acetate

LC50, rat, >20 mg/L, estimated

Linalool

LC50, female mouse, 1h, >20mg

Tonalide

LC50, rat, >20 mg/L, estimated

Allyl phenoxyacetate

LC50, rat, >20 mg/L, estimated

Benzyl acetate

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

Hydroxycitronellal

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

Benzyl alcohol

LC50, rat, 4h, > 4178 mg/m³ air

Citral

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

Lavender oil

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

Eugenol

LC50, 4h, >5 mg/L

Benzyl salicylate

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

Allyl (3-methylbutoxy)acetate

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

Galaxolide

LC50, > 5.04 mg/L air

(-)-Carvone

LC50, rat, >5.66 mg/l, OECD Guideline 403

alpha-Damascone

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

Acetyl cedrene

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:

Cedarwood oil

LD50, rabbit, >5000 mg/kg

Benzyl benzoate

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

Vanillin

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

Coumarin

LD50, rabbit, >2000mg/kg bw

Verdox/otbcha

LD50, rabbit, >2000 mg/kg, estimated

Linalyl acetate

LD50, Rabbits, >5000 mg/kg bw

Anethole

LD50, rabbit, >2000 mg/kg, estimated

Geraniol

LD50, rabbit, > 5 000 mg/kg bw

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α -hexylcinnamaldehyde

LD50, rabbit, >2000 mg/kg, estimated

4-tert-butylcyclohexyl acetate

LD50, rabbit, > 4680 mg/kg bw

Linalool

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

Tonalide

LD50, female rat, 7.94 g/kg

Allyl phenoxyacetate

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

Benzyl acetate

LD50, rabbit, > 5g/kg bw

Hydroxycitronellal

LD50, rabbit, > 2 000 mg/kg bw

Benzyl alcohol

LD50, rabbit, > 2 000 mg/kg bw

Citral

LD50, rat, > 2 000 mg/kg bw

Lavender oil

LD50, rabbits, >5000 mg/kg

Eugenol

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

Benzyl salicylate

LD50, rabbits, > 2000 mg/kg bw

Allyl (3-methylbutoxy)acetate

LD50, rat, > 2 000 mg/kg bw

Galaxolide

LD50, rat, > 2 000 mg/kg bw

(-)-Carvone

LD50, rat, > 2 000 mg/kg bw

alpha-Damascone

LD50, rat, 2900 mg/kg bw

Acetyl cedrene

LD50, rabbit, > 5 000 mg/kg bw

Skin corrosion/irritation

Information for the Product:

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Shall not be classified as corrosive/irritant to skin.

Information for components:

Cedarwood oil

Shall not be classified as corrosive/irritant to skin

Benzyl benzoate

Shall not be classified as corrosive/irritant to skin

Vanillin

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

Linalyl acetate

Causes skin irritation

Anethole

Shall not be classified as corrosive/irritant to skin

Geraniol

Shall not be classified as corrosive/irritant to skin

α -hexylcinnamaldehyde

Shall not be classified as corrosive/irritant to skin

4-tert-butylcyclohexyl acetate

Shall not be classified as corrosive/irritant to skin

Linalool

Shall not be classified as corrosive/irritant to skin

Tonalide

Shall not be classified as corrosive/irritant to skin

Allyl phenoxyacetate

Causes skin irritation

Benzyl acetate

Shall not be classified as corrosive/irritant to skin

Hydroxycitronellal

Shall not be classified as corrosive/irritant to skin

Benzyl alcohol

Shall not be classified as corrosive/irritant to skin

Citral

Causes skin irritation

Lavender oil

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Causes skin irritation

Eugenol

Shall not be classified as corrosive/irritant to skin

Benzyl salicylate

Shall not be classified as corrosive/irritant to skin

Allyl (3-methylbutoxy)acetate

Causes skin irritation

Galaxolide

Shall not be classified as corrosive/irritant to skin

(-)-Carvone

Shall not be classified as corrosive/irritant to skin

alpha-Damascone

Shall not be classified as corrosive/irritant to skin

Acetyl cedrene

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:

Cedarwood oil

Shall not be classified as irritant to eye

Benzyl benzoate

Shall not be classified as irritant to eye

Vanillin

Causes serious eye irritation

Coumarin

Shall not be classified as irritant to eye

Verdox/otbcha

Shall not be classified as irritant to eye

Linalyl acetate

Causes serious eye irritation

Anethole

Shall not be classified as irritant to eye

Geraniol

Shall not be classified as irritant to eye

α -hexylcinnamaldehyde

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Shall not be classified as irritant to eye

4-tert-butylcyclohexyl acetate

Shall not be classified as irritant to eye

Linalool

Shall not be classified as irritant to eye

Tonalide

Shall not be classified as irritant to eye

Allyl phenoxyacetate

Shall not be classified as irritant to eye

Benzyl acetate

Shall not be classified as irritant to eye

Hydroxycitronellal

Causes serious eye irritation

Benzyl alcohol

Causes serious eye irritation

Citral

Shall not be classified as irritant to eye

Lavender oil

Shall not be classified as irritant to eye

Eugenol

Causes serious eye irritation

Benzyl salicylate

Shall not be classified as irritant to eye

Allyl (3-methylbutoxy)acetate

Shall not be classified as irritant to eye

Galaxolide

Shall not be classified as irritant to eye

(-)-Carvone

Shall not be classified as irritant to eye

alpha-Damascone

Shall not be classified as irritant to eye

Acetyl cedrene

Shall not be classified as irritant to eye

Respiratory or skin sensitisation

Information for the Product:

May cause an allergic skin reaction.

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Information for components:

Cedarwood oil

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Benzyl benzoate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Vanillin

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.

Linalyl acetate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Anethole

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Geraniol

For skin sensitization:

May cause an allergic skin reaction

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.

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4-tert-butylcyclohexyl acetate

For skin sensitization:

May cause an allergic skin reaction

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.

Tonalide

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Allyl phenoxyacetate

For skin sensitization:

May cause an allergic skin reaction

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.

Hydroxycitronellal

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Benzyl alcohol

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.

Lavender oil

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Eugenol

For skin sensitization:

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

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

Allyl (3-methylbutoxy)acetate
For skin sensitization:
Shall not be classified as a skin sensitiser
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.

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

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

Acetyl cedrene
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:

Cedarwood oil
Shall not be classified as germ cell mutagenic

Benzyl benzoate
Shall not be classified as germ cell mutagenic

Vanillin
Shall not be classified as germ cell mutagenic

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Coumarin

Shall not be classified as germ cell mutagenic

Verdox/otbcha

Shall not be classified as germ cell mutagenic

Linalyl acetate

Shall not be classified as germ cell mutagenic

Anethole

Shall not be classified as germ cell mutagenic

Geraniol

Shall not be classified as germ cell mutagenic

α -hexylcinnamaldehyde

Shall not be classified as germ cell mutagenic

4-tert-butylcyclohexyl acetate

Shall not be classified as germ cell mutagenic

Linalool

Shall not be classified as germ cell mutagenic

Tonalide

Shall not be classified as germ cell mutagenic

Allyl phenoxyacetate

Shall not be classified as germ cell mutagenic

Benzyl acetate

Shall not be classified as germ cell mutagenic

Hydroxycitronellal

Shall not be classified as germ cell mutagenic

Benzyl alcohol

Shall not be classified as germ cell mutagenic

Citral

Shall not be classified as germ cell mutagenic

Lavender oil

Shall not be classified as germ cell mutagenic

Eugenol

Shall not be classified as germ cell mutagenic

Benzyl salicylate

Shall not be classified as germ cell mutagenic

Allyl (3-methylbutoxy)acetate

Shall not be classified as germ cell mutagenic

Galaxolide

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Shall not be classified as germ cell mutagenic

(-)-Carvone

Shall not be classified as germ cell mutagenic

alpha-Damascone

Shall not be classified as germ cell mutagenic

Acetyl cedrene

Shall not be classified as germ cell mutagenic

Carcinogenicity

Information for the Product:

Shall not be classified as carcinogenic.

Information for components:

Cedarwood oil

Shall not be classified as carcinogenic

Benzyl benzoate

Shall not be classified as carcinogenic

Vanillin

Shall not be classified as carcinogenic

Coumarin

Shall not be classified as carcinogenic

Verdox/otbcha

Shall not be classified as carcinogenic

Linalyl acetate

Shall not be classified as carcinogenic

Anethole

Shall not be classified as carcinogenic

Geraniol

Shall not be classified as carcinogenic

α -hexylcinnamaldehyde

Shall not be classified as carcinogenic

4-tert-butylcyclohexyl acetate

Shall not be classified as carcinogenic

Linalool

Shall not be classified as carcinogenic

Tonalide

Shall not be classified as carcinogenic

Allyl phenoxyacetate

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Shall not be classified as carcinogenic

Benzyl acetate

Shall not be classified as carcinogenic

Hydroxycitronellal

Shall not be classified as carcinogenic

Benzyl alcohol

Shall not be classified as carcinogenic

Citral

Shall not be classified as carcinogenic

Lavender oil

Shall not be classified as carcinogenic

Eugenol

Shall not be classified as carcinogenic

Benzyl salicylate

Shall not be classified as carcinogenic

Allyl (3-methylbutoxy)acetate

Shall not be classified as carcinogenic

Galaxolide

Shall not be classified as carcinogenic

(-)-Carvone

Shall not be classified as carcinogenic

alpha-Damascone

Shall not be classified as carcinogenic

Acetyl cedrene

Shall not be classified as carcinogenic

Reproductive toxicity

Information for the Product:

Shall not be classified as a reproductive toxicant.

Information for components:

Cedarwood oil

Shall not be classified as a reproductive toxicant

Benzyl benzoate

Shall not be classified as a reproductive toxicant

Vanillin

Shall not be classified as a reproductive toxicant

Coumarin

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Shall not be classified as a reproductive toxicant

Verdox/otbcha

Shall not be classified as a reproductive toxicant

Linalyl acetate

Shall not be classified as a reproductive toxicant

Anethole

Shall not be classified as a reproductive toxicant

Geraniol

Shall not be classified as a reproductive toxicant

α -hexylcinnamaldehyde

Shall not be classified as a reproductive toxicant

4-tert-butylcyclohexyl acetate

Shall not be classified as a reproductive toxicant

Linalool

Shall not be classified as a reproductive toxicant

Tonalide

Shall not be classified as a reproductive toxicant

Allyl phenoxyacetate

Shall not be classified as a reproductive toxicant

Benzyl acetate

Shall not be classified as a reproductive toxicant

Hydroxycitronellal

Shall not be classified as a reproductive toxicant

Benzyl alcohol

Shall not be classified as a reproductive toxicant

Citral

Shall not be classified as a reproductive toxicant

Lavender oil

Shall not be classified as a reproductive toxicant

Eugenol

Shall not be classified as a reproductive toxicant

Benzyl salicylate

Shall not be classified as a reproductive toxicant

Allyl (3-methylbutoxy)acetate

Shall not be classified as a reproductive toxicant

Galaxolide

Shall not be classified as a reproductive toxicant

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(-)-Carvone

Shall not be classified as a reproductive toxicant

alpha-Damascone

Shall not be classified as a reproductive toxicant

Acetyl cedrene

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:

Cedarwood oil

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

Benzyl benzoate

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

Vanillin

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

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)

Linalyl acetate

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

Anethole

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

Geraniol

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)

4-tert-butylcyclohexyl acetate

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)

Tonalide

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

Allyl phenoxyacetate

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

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Benzyl acetate

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

Hydroxycitronellal

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)

Citral

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

Lavender oil

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

Eugenol

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

Benzyl salicylate

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

Allyl (3-methylbutoxy)acetate

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)

(-)-Carvone

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

alpha-Damascone

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

Acetyl cedrene

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:

Cedarwood oil

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

Benzyl benzoate

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

Vanillin

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

Coumarin

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

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Verdox/otbcha

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

Linalyl acetate

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

Anethole

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

Geraniol

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)

4-tert-butylcyclohexyl acetate

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)

Tonalide

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

Allyl phenoxyacetate

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)

Hydroxycitronellal

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)

Citral

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

Lavender oil

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)

Benzyl salicylate

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

Allyl (3-methylbutoxy)acetate

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)

(-)-Carvone

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

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alpha-Damascone

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

Acetyl cedrene

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:

Cedarwood oil

May be fatal if swallowed and enters airways

Benzyl benzoate

Shall not be classified as presenting an aspiration hazard

Vanillin

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

Linalyl acetate

Shall not be classified as presenting an aspiration hazard

Anethole

Shall not be classified as presenting an aspiration hazard

Geraniol

Shall not be classified as presenting an aspiration hazard

α -hexylcinnamaldehyde

Shall not be classified as presenting an aspiration hazard

4-tert-butylcyclohexyl acetate

Shall not be classified as presenting an aspiration hazard

Linalool

Shall not be classified as presenting an aspiration hazard

Tonalide

Shall not be classified as presenting an aspiration hazard

Allyl phenoxyacetate

Shall not be classified as presenting an aspiration hazard

Benzyl acetate

Shall not be classified as presenting an aspiration hazard

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Hydroxycitronellal

Shall not be classified as presenting an aspiration hazard

Benzyl alcohol

Shall not be classified as presenting an aspiration hazard

Citral

Shall not be classified as presenting an aspiration hazard

Lavender oil

May be fatal if swallowed and enters airways

Eugenol

Shall not be classified as presenting an aspiration hazard

Benzyl salicylate

Shall not be classified as presenting an aspiration hazard

Allyl (3-methylbutoxy)acetate

Shall not be classified as presenting an aspiration hazard

Galaxolide

Shall not be classified as presenting an aspiration hazard

(-)-Carvone

Shall not be classified as presenting an aspiration hazard

alpha-Damascone

Shall not be classified as presenting an aspiration hazard

Acetyl cedrene

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:

Cedarwood oil

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

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.

Vanillin

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

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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.

Linalyl 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.

Anethole

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.

Geraniol

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.

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.

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.

Tonalide

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 phenoxyacetate

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.

Hydroxycitronellal

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.

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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.

Lavender oil

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

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.

Benzyl 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.

Allyl (3-methylbutoxy)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.

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.

(-)-Carvone

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.

alpha-Damascone

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.

Acetyl cedrene

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

Cedarwood oil

Short-term toxicity to fish
LL50, fish, 96h, 6.8 mg/L

Short-term toxicity to aquatic invertebrates
EL50, Daphnia magna, 48h, 1.3 mg/L

Toxicity to aquatic algae and cyanobacteria
ErL50, algae, 72h, 2.9 mg/L

Toxicity to microorganisms
EC10, activated sludge, 3h, inhibition of total respiration, 301 mg/L

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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

Vanillin

Short-term toxicity to fish

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

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

Short-term toxicity to aquatic invertebrates

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

Long-term toxicity to aquatic invertebrates

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

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

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

Toxicity to aquatic algae and cyanobacteria

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

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

Toxicity to microorganisms

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

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

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IC50, activated sludge, 3h, 640 mg/L

Linalyl acetate

Short-term toxicity to fish

LC50, 96h, 11 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates

EC50, 48h, 59 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 68 mg/L

NOEC, 3.9 mg/L.

Toxicity to microorganisms

NOEC, 25.7 mg/L

Geraniol

Short-term toxicity to fish

Acute/l harmful to fish

LC50, Brachydanio rerio, 96h, 22 mg/l, OECD guideline 203

Short-term toxicity to aquatic invertebrates

Acutely harmful to aquatic invertebrates.

EC50, 48h, 10.8 mg/l , OECD guideline 202

Toxicity to aquatic algae and cyanobacteria

Acutely harmful for aquatic algae.

EC50, algae, 72h, 13.9 mg/l , OECD 201

Toxicity to microorganisms

Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

EC50, 30min, 70 mg/l, OECD 209

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

Linalool

Short-term toxicity to fish

LC50, Salmo gairdneri, 96h, 27.8 mg/l, OECD guideline 203

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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

Tonalide

Short-term toxicity to fish
LC50, Lepomis macrochirus, 96h, 1.49 mg/L, OECD Guideline 204

Long-term toxicity to fish
NOEC, 34d, 35 µg/L, OECD Guideline 210

Short-term toxicity to aquatic invertebrates
LC50, Nicotra spinipes, 96h, 0.61 mg/L

Long-term toxicity to aquatic invertebrates
NOEC, D. magna, 21d, 0.196 mg/L

Toxicity to aquatic algae and cyanobacteria
NOEC, Alga, 72h, 0.404 mg/L, OECD Guideline 201
EC50, Alga, 72h, >0.835 mg/L, OECD Guideline 201

Toxicity to microorganisms
NOEC, 22 mg/L

Allyl phenoxyacetate

Short-term toxicity to fish
LC50, Brachydanio rerio, 96 h, 0.133 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates
EC50, Daphnia magna, 48h, 2.07 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria
EC10, 72h, 12.7 mg/L
EC50, 72h, 24.9 mg/L

Toxicity to microorganisms
NOEC, activated sludge, 14d, ≥ 2 mg/L, OECD 301 D

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

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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

Hydroxycitronellal

Short-term toxicity to fish

LC50, Leuciscus idus, 96h, 31.6 mg/L, DIN 38412, part L

Short-term toxicity to aquatic invertebrates

With high probability acutely not harmful to aquatic invertebrates.

EC50, Daphnia magna, 48h, 410 mg/L

Toxicity to aquatic algae and cyanobacteria

With high probability acutely not harmful to aquatic algae.

ECr50, 72h, 123.32 mg/L, OECD guideline 201

Toxicity to microorganisms

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

EC20, 30min, >1000 mg/l

EC10, 17h, 625 mg/l

Benzyl alcohol

Short-term toxicity to fish

Has a very low toxicity to fish.

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

Citral

Short-term toxicity to fish

Acutely toxic for fish

LC50, 96h, 6.78 mg/L

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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

Lavender oil

Short-term toxicity to fish

LL50, 96h, 29.173 mg/L, estimated

Short-term toxicity to aquatic invertebrates

EL50, Daphnia magna, 48 h, 21.995 mg/L

Toxicity to aquatic algae and cyanobacteria

EL50, 72h, 13 mg/L

Toxicity to microorganisms

EC50, 3 h, 1 230 mg/L

NOEC, 3h, 488 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.

Benzyl salicylate

Short-term toxicity to fish

LC50, Danio rerio, 96 h, 1.03 mg/L

Short-term toxicity to aquatic invertebrates

EC50, 48h, 1.16 mg/L

Toxicity to aquatic algae and cyanobacteria

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EC50, 72h, 1.29 mg/L
NOEC, 72h, 0.502 mg/L

Toxicity to microorganisms
NOEC, 100mg/L

Allyl (3-methylbutoxy)acetate

Short-term toxicity to fish
LC50, 96 h, ca. 0.768 mg/L

Short-term toxicity to aquatic invertebrates
LC50, 48 h, ca. 5.09 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, 96h, ca. 2.06 mg/L

Toxicity to microorganisms
EC50, 3 h, ca. 8.47 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

(-)-Carvone

Short-term toxicity to fish
LC50, 96h, 6.1 mg/L

Short-term toxicity to aquatic invertebrates
EC50, 38 mg/L.

Toxicity to aquatic algae and cyanobacteria
EC50, 72h, 19 mg/L
NOEC, 72h, 4.3 mg/L.

Toxicity to microorganisms
NOEC, 100 mg/L

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alpha-Damascone

Short-term toxicity to fish
LC50, 96h, 1.09 mg/L

Short-term toxicity to aquatic invertebrates
EC50, 48h, Daphnia magna, 2.37 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, 72 h, 5 mg/L

Toxicity to microorganisms
NOEC, 3h, 32 mg/L
EC50, 3h, 275 mg/L

Acetyl cedrene

Short-term toxicity to fish
LC50, 96h, 2.3 mg/l

Short-term toxicity to aquatic invertebrates
EC50, 48h, 0.86 mg/l

Long-term toxicity to aquatic invertebrates
NOEC, 21d, 0.087 mg/l

Toxicity to aquatic algae and cyanobacteria
EC50, 4.3 mg/L
NOEC, 1.07 mg/L

Toxicity to microorganisms
NOEC, 100 mg/L

12.2 Persistence and degradability

Cedarwood oil
Inherently biodegradable
Biodegradation: 36%
Exposure time: 28d
Method: OECD 301F
Biodegradation: 56%
Exposure time: 60d
Method: OECD 301F

Benzyl benzoate
Readily biodegradable
Biodegradation: 94%
Exposure time: 28d
Method: EU Method C.4-D

Vanillin
Readily biodegradable
Biodegradation: 97%
Exposure time: 14d

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Coumarin

Readily biodegradable

Biodegradation: 90%

Exposure time: 28d

Linalyl acetate

Readily biodegradable

Biodegradation: 76%

Exposure time: 28d

Geraniol

Readily biodegradable

Biodegradation: 90 - 100 %

Exposure time: 3d

Method: OECD 301A

4-tert-butylcyclohexyl acetate

Readily biodegradable

Biodegradation: 75%

Exposure time: 28d

Method: EU Method C.4-C

Linalool

Readily biodegradable

Biodegradation: 64.2%

Exposure time: 28d

Method: OECD TG 301 D

Tonalide

Inherently biodegradable

Biodegradation: 21%

Exposure time: 21d

Method: OECD Guideline 301 D

Allyl phenoxyacetate

Readily biodegradable

Biodegradation: 68%

Exposure time: 28d

Method: OECD Guideline 301 D

Benzyl acetate

readily biodegradable

Biodegradation: 100.9%

Exposure time: 28d

Method: OECD Guideline 301 B

Hydroxycitronellal

Readily biodegradable

Biodegradation: 80 - 90 %

Exposure time: 28d

Method: OECD 301F

Benzyl alcohol

readily biodegradable

Biodegradation: 92-96 %

Exposure time: 14d

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Method: OECD Guideline 301 A

Citral

readily biodegradable

Biodegradation: >90%

Exposure time: 28d

Lavender oil

readily biodegradable

At 100 ppm test concentration, 86% degradation by biochemical oxygen demand was reached in 2 weeks.

Eugenol

readily biodegradable

Biodegradation: 74%

Exposure time: 14d

Benzyl salicylate

readily biodegradable

Biodegradation: 93%

Exposure time: 28d

Method: OECD 301 F

Allyl (3-methylbutoxy)acetate

readily biodegradable

Biodegradation: 78.12%

Exposure time: 6-13d

Method: OECD Guideline 301 B

Galaxolide

not biodegradable

(-)-Carvone

readily biodegradable

Biodegradation: 90%

Exposure time: 28d

alpha-Damascone

Not readily biodegradable

Acetyl cedrene

Not readily biodegradable

12.3 Bioaccumulative potential

Benzyl benzoate

Log Kow of 3.97.

The calculated BCF was 193.4 L/kg (log BCF = 2.286).

Vanillin

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

Verdox/otbcha

BCF : 77 L/kg

Linalyl acetate

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BCF : 174 L/kg

Geraniol

The substance is not expected to significantly accumulate in organisms.

4-tert-butylcyclohexyl acetate

The substance is not considered highly bioaccumulable.

BCF: 334.6 L/kg estimated

log BCF: 2.524

Linalool

The substance has a low potential for bioaccumulation

log Kow <3

Tonalide

BCF: ca. 600

Benzyl acetate

The substance is not expected to bioaccumulate in living organisms.

BCF: 8

Hydroxycitronellal

Bioaccumulation is not expected.

Benzyl alcohol

BCF: 1.37 L/kg ww

Citral

BCF: 89.72

A significant bioaccumulation of the substance is not expected

Eugenol

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

Benzyl salicylate

BCF, 120 to 311 L/kg, Estimated

Galaxolide

BCF, 1584 L/kg ww

(-)-Carvone

BCF, 28.51 L/kg ww

alpha-Damascone

BCF, 20 dimensionless

Acetyl cedrene

BCF, 3920 dimensionless

12.4 Mobility in soil

Cedarwood oil

LogKoc: 4.21

Koc: 16 310(20 °C)

Benzyl benzoate

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Low mobility in soils and sediment.
log Koc of 3.8 (Koc= 6310 L/kg)

Vanillin
Koc: 4898(20 °C)

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

Verdox/otbcha
Koc: 117

Linalyl acetate
Koc: 432.4(20 °C)

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

4-tert-butylcyclohexyl acetate
The substance is environmentally slightly mobile in soils
Koc: 3923(20 °C)
LogKoc: 3.59

Linalool
Koc: 75 L/kg(20 °C)

Tonalide
Koc: 29512(20 °C)

Allyl phenoxyacetate
Koc: 156.05(20 °C)
LogKoc: 2.19

Benzyl acetate
Koc: 250(20 °C)

Hydroxycitronellal
Adsorption to solid soil phase is not expected.
log Koc: 1

Benzyl alcohol
Koc: 15.7(20 °C)

Citral
Adsorption to solid soil phase is not expected.

Lavender oil
Koc: 3722.64 L/kg

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

Benzyl salicylate

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Koc: 5623(20 °C)

Allyl (3-methylbutoxy)acetate

Koc, 80(20 °C)

Galaxolide

Koc, 14 300(20 °C)

(-)-Carvone

Log Koc, 2.795(25°C)

alpha-Damascone

Koc, 941.1(20 °C)

Acetyl cedrene

Koc, 140000(20 °C)

12.5 Results of PBT and vPvB assessment

Cedarwood oil

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

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).

Vanillin

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

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).

Linalyl 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).

Anethole

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).

Geraniol

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).

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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).

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).

Tonalide

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 phenoxyacetate

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).

Hydroxycitronellal

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).

Citral

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).

Lavender oil

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

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).

Benzyl 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).

Allyl (3-methylbutoxy)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).

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).

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(-)-Carvone

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).

alpha-Damascone

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).

Acetyl cedrene

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.

Cedarwood oil

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

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.

Vanillin

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

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.

Linalyl 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.

Anethole

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.

Geraniol

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.

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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.

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.

Tonalide

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 phenoxyacetate

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.

Hydroxycitronellal

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.

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.

Lavender oil

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

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.

Benzyl 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.

Allyl (3-methylbutoxy)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.

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.

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(-)-Carvone

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.

alpha-Damascone

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.

Acetyl cedrene

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

Cedarwood oil

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

Benzyl benzoate

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

Vanillin

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

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.

Linalyl acetate

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

Anethole

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

Geraniol

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.

4-tert-butylcyclohexyl acetate

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.

Tonalide

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

Allyl phenoxyacetate

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.

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Hydroxycitronellal

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.

Citral

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

Lavender oil

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.

Benzyl salicylate

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

Allyl (3-methylbutoxy)acetate

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.

(-)-Carvone

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

alpha-Damascone

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

Acetyl cedrene

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport Information

Land transport

ADR/RID/ADN

14.1. UN number : not applicable

14.2. UN proper shipping name: : not applicable

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

14.4. Packing group : not applicable

14.5. Environmental hazards : no

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14.6. Special precautions : none
for user

Sea transport

IMDG

14.1. UN number : not applicable

14.2. UN proper shipping : not applicable
name:

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

14.4. Packing group : not applicable

14.5. Environmental : no
hazards

14.6. Special precautions : none
for user

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 : not applicable
name:

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

14.4. Packing group: : not applicable

14.5. Environmental : no
hazards:

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.

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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.

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances

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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.
