

Safety data sheet

according to Regulation (EU) No 2020/878



Product name: Car Air Freshener-Ocean Breeze
Version 2.0

Print date: 21.08.2024
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-Ocean Breeze

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

Use of the Substance/Mixture : Car air freshener

1.3 Details of the supplier of the safety data sheet

Company : FRSH SCENTS LIMITED

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

Telephone : +86 769 88288882

E-mail address : venus@frshscentschina.com

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

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

1.4 Emergency telephone number

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

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 and amendment (EU) 2024/197

Skin Irrit. 2	H315
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

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Signal word:

Warning

Hazard statements:

H315 Causes skin irritation
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.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P302 + P352 IF ON SKIN: Wash with plenty water
P321 Specific treatment (see section 4 on this SDS)
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Hazard information (EU): Not applicable.

Derogations from labelling requirements

Hazard pictograms



Signal word:

Warning

Hazard statements:

H315 Causes skin irritation
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.
P302 + P352 IF ON SKIN: Wash with plenty water

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P332 + P313

If skin irritation occurs: Get medical advice/attention.

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 58430-94-7 EC-No. 261-245-9 Index-No. -	-	40-45%	3,5,5-trimethylhexyl acetate	Skin Irrit. 2, H315 Aquatic Chronic 2, H411 Acute toxicity estimate Acute oral toxicity: GHS criteria not met LD50, Rat, 4250 mg/kg bw, OECD Guideline 401 Acute inhalation toxicity: LC50, rat, >20 mg/L, estimated Acute dermal toxicity GHS criteria not met LD50, rabbit, >5000 mg/kg bw
CASRN 120-51-4 EC-No. 204-402-9 Index-No. 607-085-00- 9	-	10-20%	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 LD50, rabbit, >2 mL/kg bw (~2000 mg/kg bw)

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CASRN 24851-98-7 EC-No. 246-495-9 Index-No. -	-	5-15%	Hedione	Not classified Acute toxicity estimate Acute oral toxicity: LD50, rat, > 5 000 mg/kg bw Acute inhalation toxicity: LC50, rat, > 4.93 mg/L air (analytical) Acute dermal toxicity LD50, rabbit, > 5 000 mg/kg bw
CASRN 1135-66-6 EC-No. 214-494-2 Index-No. -	-	5-10%	(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene	Asp. Tox. 1, H304 Acute toxicity estimate Acute oral toxicity: LD50, rat, 6160 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, > 5 000 mg/kg bw
CASRN 19870-74-7 EC-No. 243-384-7 Index-No. -	-	5-10%	Cedryl methyl ether	Not classified Acute toxicity estimate Acute oral toxicity: LD50, rat, > 5 000 mg/kg bw Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, > 5 000 mg/kg bw
CASRN 54464-57-2 EC-No. 259-174-3 Index-No. -	-	1-10%	Iso E Super	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 Acute toxicity estimate Acute oral toxicity: LD50, rat, > 2000 mg/kg bw, estimated Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, >2000 mg/kg bw, estimated
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

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CASRN 127-51-5 EC-No. 204-846-3 Index-No. -	-	1-5%	Iso-methylionone	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 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 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

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

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Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

Further information : No information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation. Avoid skin contact.

6.2 Environmental precautions

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

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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: : liquid

Odour : accord with standard sample

Odour threshold : no data available

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pH	:	no data available
Melting point	:	no data available
Boiling point	:	no data available
Flash point	:	>61°C
Evaporation rate	:	no data available
Flammability (solid, gas)	:	not applicable
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 determined
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, > 2 000 mg/kg Estimated.

Information for components:

Iso-methylionone
LD50, Rat, >5000 mg/kg

Benzyl benzoate
LD50, Rat, 1700 mg/kg

3,5,5-trimethylhexyl acetate
LD50, Rat, 4250 mg/kg bw, OECD Guideline 401

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

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

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

Cedryl methyl ether
LD50, rat, > 5 000 mg/kg bw

Iso E Super
LD50, rat, > 2000 mg/kg bw, estimated

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene
LD50, rat, 6160 mg/kg bw

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Acute dermal toxicity

Information for the Product:

Shall not be classified as acutely toxic (dermal).

As product: The dermal LD50 has not been determined.

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

Information for components:

Iso-methylionone

LC50, rat, >20 mg/L, estimated

Benzyl benzoate

LC50, rat, >20 mg/L, estimated

3,5,5-trimethylhexyl acetate

LC50, rat, >20 mg/L, estimated

Linalyl acetate

LC50, mice, 4h, > 1,028 mg/m³

Linalool

LC50, female mouse, 1h, >20mg

Hedione

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

Cedryl methyl ether

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

Iso E Super

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

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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:

Iso-methylionone

LD50, rabbit, >5000 mg/kg

Benzyl benzoate

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

3,5,5-trimethylhexyl acetate

LD50, rabbit, >5000 mg/kg bw

Linalyl acetate

LD50, Rabbits, >5000 mg/kg bw

Linalool

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

Hedione

LD50, rabbit, > 5 000 mg/kg bw

Cedryl methyl ether

LD50, rabbit, > 5 000 mg/kg bw

Iso E Super

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

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

LD50, rabbit, > 5 000 mg/kg bw

Skin corrosion/irritation

Information for the Product:

Causes skin irritation.

Information for components:

Iso-methylionone

Causes skin irritation

Benzyl benzoate

Shall not be classified as corrosive/irritant to skin

3,5,5-trimethylhexyl acetate

Causes skin irritation

Linalyl acetate

Causes skin irritation

Linalool

Shall not be classified as corrosive/irritant to skin

Hedione

Shall not be classified as corrosive/irritant to skin

Cedryl methyl ether

Shall not be classified as corrosive/irritant to skin

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

Shall not be classified as corrosive/irritant to skin

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Serious eye damage/eye irritation

Information for the Product:

Shall not be classified as irritant to eye.

Information for components:

Iso-methylionone

Causes serious eye irritation

Benzyl benzoate

Shall not be classified as irritant to eye

3,5,5-trimethylhexyl acetate

Shall not be classified as irritant to eye

Linalyl acetate

Causes serious eye irritation

Linalool

Shall not be classified as irritant to eye

Hedione

Shall not be classified as irritant to eye

Cedryl methyl ether

Shall not be classified as irritant to eye

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

Shall not be classified as irritant to eye

Respiratory or skin sensitisation

Information for the Product:

May cause an allergic skin reaction.

Information for components:

Iso-methylionone

For skin sensitization:

May cause an allergic skin reaction

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.

3,5,5-trimethylhexyl acetate

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For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Linalyl acetate

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.

Hedione

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Cedryl methyl ether

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Germ cell mutagenicity

Information for the Product:

Shall not be classified as germ cell mutagenic.

Information for components:

Iso-methylionone

Shall not be classified as germ cell mutagenic

Benzyl benzoate

Shall not be classified as germ cell mutagenic

3,5,5-trimethylhexyl acetate

Shall not be classified as germ cell mutagenic

Linalyl acetate

Shall not be classified as germ cell mutagenic

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Linalool

Shall not be classified as germ cell mutagenic

Hedione

Shall not be classified as germ cell mutagenic

Cedryl methyl ether

Shall not be classified as germ cell mutagenic

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

Shall not be classified as germ cell mutagenic

Carcinogenicity

Information for the Product:

Shall not be classified as carcinogenic.

Information for components:

Iso-methylionone

Shall not be classified as carcinogenic

Benzyl benzoate

Shall not be classified as carcinogenic

3,5,5-trimethylhexyl acetate

Shall not be classified as carcinogenic

Linalyl acetate

Shall not be classified as carcinogenic

Linalool

Shall not be classified as carcinogenic

Hedione

Shall not be classified as carcinogenic

Cedryl methyl ether

Shall not be classified as carcinogenic

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

Shall not be classified as carcinogenic

Reproductive toxicity

Information for the Product:

Shall not be classified as a reproductive toxicant.

Information for components:

Iso-methylionone

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Shall not be classified as a reproductive toxicant

Benzyl benzoate

Shall not be classified as a reproductive toxicant

3,5,5-trimethylhexyl acetate

Shall not be classified as a reproductive toxicant

Linalyl acetate

Shall not be classified as a reproductive toxicant

Linalool

Shall not be classified as a reproductive toxicant

Hedione

Shall not be classified as a reproductive toxicant

Cedryl methyl ether

Shall not be classified as a reproductive toxicant

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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:

Iso-methylionone

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)

3,5,5-trimethylhexyl acetate

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)

Linalool

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

Hedione

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

Cedryl methyl ether

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

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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

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STOT-repeated exposure

Information for the Product:

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

Information for components:

Iso-methylionone

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)

3,5,5-trimethylhexyl acetate

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)

Linalool

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

Hedione

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

Cedryl methyl ether

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

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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:

Iso-methylionone

Shall not be classified as presenting an aspiration hazard

Benzyl benzoate

Shall not be classified as presenting an aspiration hazard

3,5,5-trimethylhexyl acetate

Shall not be classified as presenting an aspiration hazard

Linalyl acetate

Shall not be classified as presenting an aspiration hazard

Linalool

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Shall not be classified as presenting an aspiration hazard

Hedione

Shall not be classified as presenting an aspiration hazard

Cedryl methyl ether

Shall not be classified as presenting an aspiration hazard

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

May be fatal if swallowed and enters airways

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:

Iso-methylionone

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.

3,5,5-trimethylhexyl 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.

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.

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.

Hedione

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

Cedryl methyl ether

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.

Iso E Super

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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(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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

Iso-methylionone

Short-term toxicity to fish

Material is toxic to fish and can be classified as aquatic acute 2.

EC50, fish, 96h, 1.428 mg/L

Short-term toxicity to aquatic invertebrates

Substance is likely to be hazardous to aquatic invertebrate and can be classified as aquatic acute 2 category.

EC50, Daphnia magna, 72h, 4.7 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

No toxicity at the limit of solubility

EC50, Desmodesmus subspicatus, 72h, >20 mg/L, OECD Guideline 201

Toxicity to microorganisms

MIC, microorganisms, 2-10 days, 100 mg/l to 894.195 mg/l

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

3,5,5-trimethylhexyl acetate

Short-term toxicity to fish

LC50, fathead minnow, 96h, 7.7 mg/L

Toxicity to aquatic algae and cyanobacteria

ErC10, freshwater green alga Pseudokirchneriella subcapitata, 72h, 0.65 mg/L

Toxicity to microorganisms

EC10 or NOEC, activated sludge, 100 mg/L, OECD 301F

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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

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

Hedione

Short-term toxicity to fish

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

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

Short-term toxicity to aquatic invertebrates

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

Long-term toxicity to aquatic invertebrates

EC10, 21d, > 1.82 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 45.9 mg/L

NOEC, 72h, 11.7 mg/L

Cedryl methyl ether

Short-term toxicity to fish

LC50, *Cyprinus carpio*, 96h, 0.43 mg/L

Short-term toxicity to aquatic invertebrates

EC50, 48h, 0.48 mg/L

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Toxicity to aquatic algae and cyanobacteria
EC10, 72h, 0.7 mg/L

Toxicity to microorganisms
NOEL, 3h, 1000 mg/L

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

Short-term toxicity to fish
EC50, 96h, 0.068 mg/L

Short-term toxicity to aquatic invertebrates
LC50, 48h, 0.055 mg/L

Toxicity to aquatic algae and cyanobacteria
EC50, 96h, 0.172 mg/L

Toxicity to microorganisms
The substance is moderately toxic to microorganisms.

12.2 Persistence and degradability

Iso-methylionone
Biodegradability:
inherently biodegradable
Biodegradation: 42.51%
Exposure time: 28d
Method: OECD Guideline 301 D

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

3,5,5-trimethylhexyl acetate
Readily biodegradable
Biodegradation: 80%
Exposure time: 28d

Linalyl acetate
Readily biodegradable
Biodegradation: 76%
Exposure time: 28d

Linalool
Readily biodegradable
Biodegradation: 64.2%
Exposure time: 28d
Method: OECD TG 301 D

Hedione
readily biodegradable

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Cedryl methyl ether
Readily biodegradable
Biodegradation: 60%
Exposure time: 28d
Method: OECD TG 301D

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene
Readily biodegradable
Biodegradation: 74 %
Exposure time: 28d

12.3 Bioaccumulative potential

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

3,5,5-trimethylhexyl acetate
The substance is considered as not bioaccumulative.
Log Kow: 504 L/kg, estimated
BCF: 1622 L/kg, estimated

Linalyl acetate
BCF : 174 L/kg

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

Cedryl methyl ether
BCF, 4320 L/kg ww

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene
BCF, 3019 L/kg(25°C), estimated

12.4 Mobility in soil

Iso-methylionone
Log Koc 3.486 ± 0.002 at 25°C, OECD Guideline-121

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

3,5,5-trimethylhexyl acetate
Slightly mobile in soil and sediment.

Linalyl acetate
Koc: 432.4(20 °C)

Linalool
Koc: 75 L/kg(20 °C)

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Cedryl methyl ether
Koc, 30000(20 °C)

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene
Koc, 15760 (20 °C)

12.5 Results of PBT and vPvB assessment

Iso-methylionone

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).

3,5,5-trimethylhexyl 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).

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).

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).

Hedione

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

Cedryl methyl ether

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).

Iso E Super

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).

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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.

Iso-methylionone

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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.

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.

3,5,5-trimethylhexyl 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.

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.

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.

Hedione

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

Cedryl methyl ether

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.

Iso E Super

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.

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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

Iso-methylionone

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.

3,5,5-trimethylhexyl acetate

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.

Linalool

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

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Hedione

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

Cedryl methyl ether

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

Iso E Super

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

(2S)-1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalene

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport Information

Land transport

ADR/RID/ADN

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

Sea transport

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

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

Air transport

IATA/ICAO

14.1. UN number: : not applicable

14.2. UN proper shipping name: : not applicable

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

14.4. Packing group: : not applicable

14.5. Environmental hazards: : no

14.6. Special precautions for user : none

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

REACH Regulation (EC) No 1907/2006

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

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

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

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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
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
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA)
vPvB	very Persistent and very Bioaccumulative

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