

Safety data sheet

according to Regulation (EU) No 2020/878



Product name: CAR AIR FRESHENER-FRESH COTTON

Print date: 11.03.2024

Version 1.0

Issue Date: 11.03.2024

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

1.1 Product identifier

Product name : CAR AIR FRESHENER-FRESH COTTON

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 : DORIS@FRSHSCENTSCHINA.COM

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

EU Representative : Authorised Rep Compliance Ltd., Ground Floor, 71 Lower Baggot Street, Dublin, D02 P593, Ireland.

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

Skin Sens. 1 H317

Aquatic Chronic 3 H412

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

Hazard pictograms



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Signal word: Warning

Hazard statements:

H317 May cause an allergic skin reaction
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P273 Avoid release to the environment.
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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Hazard information (EU): Not applicable.

Derogations from labelling requirements

Hazard pictograms



Signal word: Warning

Hazard statements:

H317 May cause an allergic skin reaction
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P273 Avoid release to the environment.
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 SDS).

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

Registration number	Classification according to Regulation (EC) No 1272/2008	Concentration (% w/w)
Isononyl acetate(CAS No.: 40379-24-6) (EC No.: 254-898-6)		
		50-55%
Cyclacet(CAS No.: 5413-60-5) (EC No.: 226-501-6)		
		10-20%
Verdox/otbcha(CAS No.: 88-41-5) (EC No.: 201-828-7)		
	Aquatic Chronic 2, H411	5-15%
Benzyl acetate(CAS No.: 140-11-4) (EC No.: 205-399-7)		
		1-10%
Florol(CAS No.: 63500-71-0) (EC No.: 405-040-6)		
	Eye Irrit. 2, H319	1-5%
2-phenylethanol(CAS No.: 60-12-8) (EC No.: 200-456-2)		
	Acute Tox. 4, H302 Eye Irrit. 2, H319	1-5%
Linalyl acetate (CAS No.:115-95-7) (EC No.: 204-116-4)		
	Skin Irrit. 2, H315 Eye Irrit. 2, H319	1-5%
Fructose/jasmaprunat/applinal(CAS No.: 6413-10-1) (EC No.: 229-114-0)		

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		1-5%
Floralozone(CAS No.: 67634-15-5) (EC No.: 266-819-2)		
		1-5%
Iso-methylionone (CAS No.: 127-51-5) (EC No.: 204-846-3)		
	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	1-5%
Dimethyl benzyl(CAS No.: 151-05-3) (EC No.: 205-781-3)		
		0.5-1.5%
3,7-dimethyloct-6-enenitrile(CAS No.:51566-62-2)(EC No.:257-288-8)		
		0.5-1.5%
1-phenylethyl acetate(CAS No.:93-92-5)(EC No.:202-288-5)		
		0.1-1.0%
D-Limonene(CAS No.:5989-27-5) (EC No.: 227-813-5)		
	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	0.1-1.0%

SECTION 4. First aid measures

4.1 Description of first aid measures

- General advice : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Not expected to be irritating to the respiratory system.
- On skin contact : Wash with plenty of soap and water.
- On contact with eyes : Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
- On ingestion : Rinse mouth with water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Further important symptoms and effects are so far not known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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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 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

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

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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 : pleasant

Odour threshold : no data available

pH : no data available

Melting point : no data available

Boiling point : no data available

Flash point : 65.6°C

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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.
10.6 Hazardous decomposition products	:	No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

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

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Information on likely routes of exposure

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

Acute Toxicity Endpoints:

Acute oral toxicity

Information for the Product:

Shall not be classified as acutely toxic (oral).

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

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

Information for components:

Verdox/otbcha

LD50, Rat, >2000 mg/kg, estimated

Florol

LD50, rat, > 2 000 mg/kg bw

2-phenylethanol

Slightly toxic

LD50, Rat, 1609.3 mg/kg

Linalyl acetate

LD50, Rat, 14,550 mg/kg

Iso-methylionone

LD50, Rat, >5000 mg/kg

D-Limonene

not classified

LD50, rat, >2000 mg/kg

Anethole

LD50, Rat, >2000 mg/kg, estimated

Geraniol

practically nontoxic

LD50, rat, 3600 mg/kg bw

Acute dermal toxicity

Information for the Product:

Shall not be classified as acutely toxic (dermal).

As product: The dermal LD50 has not been determined.

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

Information for components:

Verdox/otbcha

LC50, rat, >20 mg/L, estimated

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Florol

LC50, rat, >20 mg/L, estimated

2-phenylethanol

practically nontoxic

LC50, Rat, 4h, > 4.63 mg/L air (nominal)

Linalyl acetate

LC50, mice, 4h, > 1,028 mg/m³

Iso-methylionone

LC50, rat, >20 mg/L, estimated

D-Limonene

LC50, rat, >20 mg/L, estimated

Anethole

LC50, rat, >20 mg/L, estimated

Geraniol

LC50, rat, >20 mg/L, 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:

Verdox/otbcha

LD50, rabbit, >2000 mg/kg, estimated

Florol

not classified

2-phenylethanol

not classified

Linalyl acetate

LD50, Rabbits, >5000 mg/kg bw

Iso-methylionone

LD50, rabbit, >5000 mg/kg

D-Limonene

not classified

LD50, rabbits, >5000 mg/kg bw

Anethole

LD50, rabbit, >2000 mg/kg, estimated

Geraniol

LD50, rabbit, > 5 000 mg/kg bw

Skin corrosion/irritation

Information for the Product:

Shall not be classified as corrosive/irritant to skin.

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Information for components:

Verdox/otbcha

Shall not be classified as corrosive/irritant to skin

Florol

Shall not be classified as corrosive/irritant to skin

2-phenylethanol

Shall not be classified as corrosive/irritant to skin

Linalyl acetate

Causes skin irritation

Iso-methylionone

Causes skin irritation

D-Limonene

Causes skin irritation

Anethole

Shall not be classified as corrosive/irritant to skin

Geraniol

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:

Verdox/otbcha

Shall not be classified as irritant to eye

Florol

Causes serious eye irritation

2-phenylethanol

Causes serious eye irritation

Linalyl acetate

Causes serious eye irritation

Iso-methylionone

Causes serious eye irritation

D-Limonene

Shall not be classified as irritant to eye

Anethole

Shall not be classified as irritant to eye

Geraniol

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:

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Verdox/otbcha

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Florol

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

2-phenylethanol

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.

Iso-methylionone

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

D-Limonene

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

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.

Germ cell mutagenicity

Information for the Product:

Shall not be classified as germ cell mutagenic.

Information for components:

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Verdox/otbcha

Shall not be classified as germ cell mutagenic

Florol

Shall not be classified as germ cell mutagenic

2-phenylethanol

Shall not be classified as germ cell mutagenic

Linalyl acetate

Shall not be classified as germ cell mutagenic

Iso-methylionone

Shall not be classified as germ cell mutagenic

D-Limonene

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

Carcinogenicity

Information for the Product:

Shall not be classified as carcinogenic.

Information for components:

Verdox/otbcha

Shall not be classified as carcinogenic

Florol

Shall not be classified as carcinogenic

2-phenylethanol

Shall not be classified as carcinogenic

Linalyl acetate

Shall not be classified as carcinogenic

Iso-methylionone

Shall not be classified as carcinogenic

D-Limonene

Shall not be classified as carcinogenic

Anethole

Shall not be classified as carcinogenic

Geraniol

Shall not be classified as carcinogenic

Reproductive toxicity

Information for the Product:

Shall not be classified as a reproductive toxicant.

Information for components:

Verdox/otbcha

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Shall not be classified as a reproductive toxicant

Florol

Shall not be classified as a reproductive toxicant

2-phenylethanol

Shall not be classified as a reproductive toxicant

Linalyl acetate

Shall not be classified as a reproductive toxicant

Iso-methylionone

Shall not be classified as a reproductive toxicant

D-Limonene

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

STOT-single exposure

Information for the Product:

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

Information for components:

Verdox/otbcha

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

Florol

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

2-phenylethanol

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)

Iso-methylionone

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

D-Limonene

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

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)

STOT-repeated exposure

Information for the Product:

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

Information for components:

Verdox/otbcha

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

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Florol

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

2-phenylethanol

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)

Iso-methylionone

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

D-Limonene

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

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)

Aspiration Hazard

Information for the Product:

Shall not be classified as presenting an aspiration hazard.

Information for components:

Verdox/otbcha

Shall not be classified as presenting an aspiration hazard

Florol

Shall not be classified as presenting an aspiration hazard

2-phenylethanol

Shall not be classified as presenting an aspiration hazard

Linalyl acetate

Shall not be classified as presenting an aspiration hazard

Iso-methylionone

Shall not be classified as presenting an aspiration hazard

D-Limonene

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

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:

Verdox/otbcha

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The substance is not considered to have endocrine disrupting properties according to REACH Article

Florol

The substance is not considered to have endocrine disrupting properties according to REACH Article

2-phenylethanol

The substance is not considered to have endocrine disrupting properties according to REACH Article

Linalyl acetate

The substance is not considered to have endocrine disrupting properties according to REACH Article

Iso-methylionone

The substance is not considered to have endocrine disrupting properties according to REACH Article

D-Limonene

The substance is not considered to have endocrine disrupting properties according to REACH Article

Anethole

The substance is not considered to have endocrine disrupting properties according to REACH Article

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.

SECTION 12: Ecological information

12.1 Toxicity

Verdox/otbcha

Florol

Short-term toxicity to fish

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

Short-term toxicity to aquatic invertebrates

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

Toxicity to aquatic algae and cyanobacteria

EC50, Desmodesmus subspicatus, 72h, >100 mg/l, OECD guideline 201

Toxicity to microorganisms

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

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

2-phenylethanol

Short-term toxicity to fish

LC50, fish, 96h, >215 to <464 mg/L

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 287.17 mg/L

Toxicity to aquatic algae and cyanobacteria

ErC50, algae, 72h, 1.3 g/L

Toxicity to microorganisms

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EC50, activated sludge, 3h, >100 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

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

D-Limonene

Short-term toxicity to fish

LC50 or EC50, fathead minnow, 96h, 720µg/L

Long-term toxicity to fish

EC10, 0.37 mg/L

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 0.307 mg/L, Guideline OECD 202

Long-term toxicity to aquatic invertebrates

EC10, 21d, 0.153 mg/L

Toxicity to aquatic algae and cyanobacteria

EC50, algae, 0.32 mg/L

Toxicity to microorganisms

EC50, activated sludge, 209 mg/L, respiration rate

Geraniol

Short-term toxicity to fish

Acute harmful to fish

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

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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

12.2 Persistence and degradability

Florol

Inherently biodegradable

Biodegradation: 64.8%

Exposure time: 60d

2-phenylethanol

Readily biodegradable, OECD guideline 301B

Linalyl acetate

Readily biodegradable

Biodegradation: 76%

Exposure time: 28d

Iso-methylionone

Biodegradability:

inherently biodegradable

Biodegradation:

42.51%

Exposure time: 28d

Method: OECD Guideline 301 D

D-Limonene

Readily biodegradable

Biodegradation: 71.4%

Exposure time: 28d

Geraniol

Readily biodegradable

Biodegradation: 90 - 100 %

Exposure time: 3d

Method: OECD 301A

12.3 Bioaccumulative potential

Florol

Not expected to accumulate in organisms.

2-phenylethanol

As the substance has a log octanol-water partition coefficient of less than 3 and is therefore considered to have low potential for bioaccumulation.

Linalyl acetate

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BCF : 174 L/kg ww.

D-Limonene
Readily biodegradable

Geraniol
The substance is not expected to significantly accumulate in organisms.

12.4 Mobility in soil

Florol
Adsorption to solid soil phase is not expected.
log Koc: 1.62
Koc: 41.48

2-phenylethanol
LogKoc: 1.5, OECD guideline 121.

Linalyl acetate
Koc: 432.4(20 °C)

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

D-Limonene
Koc: 2413(20 °C)
LogKoc: 3.383

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

12.5 Results of PBT and vPvB assessment

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).

Florol

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

2-phenylethanol

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).

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).

D-Limonene

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

Anethole

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

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).

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.

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.

Florol

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

2-phenylethanol

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.

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.

D-Limonene

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

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.

12.7 Other adverse effects

Verdox/otbcha

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

Florol

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

2-phenylethanol

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

Linalyl acetate

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

Iso-methylionone

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

D-Limonene

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.

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

hazards

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

hazards

14.6. Special precautions for user : none

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

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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.

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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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

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.