

# Safety data sheet

according to Regulation (EU) No 2020/878



Product name: Car Air Freshener - Cotton

Print date: 21.05.2025

Version 1.0

Issue Date: 21.05.2025

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

### 1.1 Product identifier

Product name : Car Air Freshener - 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 : zoey@frshscentschina.com

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

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

### 1.4 Emergency telephone number

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

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

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

Skin Sens. 1B	H317
Aquatic Chronic 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 [CLP]*

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## 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:

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:

P102 Keep out of reach of children.  
P103 Read label before use.  
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.

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## 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 9002-86-2 EC-No. 618-338-8 Index-No. -	-	70%	Polyvinyl Chloride Compound	Not classified  Acute toxicity estimate Acute oral toxicity: LD50, rat, > 2000 mg/kg bw, estimated Acute inhalation toxicity: LC50, rat, >5.0 mg/L air, estimated Acute dermal toxicity LD50, rabbit, >2000 mg/kg bw, estimated
CASRN 5413-60-5 EC-No. 226-501-6 Index-No. -	-	8.40%	Cyclacet	Not classified  Acute toxicity estimate Acute oral toxicity: LD50, mouse, 5 400 mg/kg bw Acute inhalation toxicity: LCLo, rat, 4h, 1010 mg/m <sup>3</sup> air Acute dermal toxicity practically nontoxic LD50, rabbit, > 5 000 mg/kg

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<p>CASRN 40379-24-6 EC-No. 254-898-6 Index-No. -</p>	-	7.20%	Isononyl acetate	<p>Not classified</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, 4250 mg/kg Acute inhalation toxicity: LC50, rat, 6h, &gt; 8 000 000 mg/m<sup>3</sup> air Acute dermal toxicity LD50, rabbits, &gt;5000 mg/kg bw</p>
<p>CASRN 88-41-5 EC-No. 201-828-7 Index-No. -</p>	-	4.20%	Verdox	<p>Aquatic Chronic 2, H411</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, Rat, &gt;2000 mg/kg, estimated Acute inhalation toxicity: LC50, rat, &gt;20 mg/L, estimated Acute dermal toxicity LD50, rabbit, &gt;2000 mg/kg,</p>
<p>CASRN 140-11-4 EC-No. 205-399-7 Index-No. -</p>	-	2.40%	Benzyl acetate	<p>Aquatic Chronic 3, H412</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, 2000 mg/kg Acute inhalation toxicity: LCLo, rat, 4h, &gt; 0.766 mg/L air Acute dermal toxicity LD50, rabbit, &gt; 5g/kg bw</p>
<p>CASRN 151-05-3 EC-No. 205-781-3 Index-No. -</p>	-	1.20%	Dimethyl benzyl	<p>Not classified</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, ca. 3.3g/kg Acute inhalation toxicity: LC50, rat, &gt;5.0 mg/L air, estimated Acute dermal toxicity LD50,rabbits, &gt; 3 000 mg/kg bw</p>

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<p>CASRN 127-51-5 EC-No. 204-846-3 Index-No. -</p>	-	1.20%	Iso-methylionone	<p>Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, Rat, &gt;5000 mg/kg Acute inhalation toxicity: LC50, rat, &gt;20 mg/L, estimated Acute dermal toxicity LD50, rabbit, &gt;5000 mg/kg</p>
<p>CASRN 110-27-0 EC-No. 203-751-4 Index-No. -</p>	-	1.05%	Isopropyl myristate	<p>Not classified</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, &gt; 2 000 mg/kg bw Acute inhalation toxicity: LC50, rat, &gt; 5.3 mg/L air (analytical) Acute dermal toxicity LD50, rabbit, &gt;2000 mg/kg bw, estimated</p>
<p>CASRN 63500-71-0 EC-No. 405-040-6 Index-No. -</p>	-	0.90%	Florol	<p>Eye Irrit. 2, H319</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, &gt; 2 000 mg/kg bw Acute inhalation toxicity: LC50, rat, &gt;20 mg/L, estimated Acute dermal toxicity LD50, rabbit, &gt;2.0g/kg</p>
<p>CASRN 67634-15-5 EC-No. 266-819-2 Index-No. -</p>	-	0.90%	Floralozone	<p>Not classified</p> <p>Acute toxicity estimate Acute oral toxicity: LD50, rat, &gt; 2000 mg/kg bw, estimated Acute inhalation toxicity: LC50, rat, &gt;20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, &gt;2000 mg/kg bw, estimated</p>

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CASRN 17511-60-3 EC-No. 241-514-7 Index-No. -	-	0.75%	Cyclaprop	Eye Irrit. 2, H319 Aquatic Chronic 2, H411  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 6413-10-1 EC-No. 229-114-0 Index-No. -	-	0.75%	Fructose	Not classified  Acute toxicity estimate Acute oral toxicity: LD50, rat, > 5 g/kg Acute inhalation toxicity: LC50, rat, >20 mg/L air, estimated Acute dermal toxicity LD50, rabbit, > 5 g/kg
CASRN 106-24-1 EC-No. 203-377-1 Index-No. 603-241-00-5	-	0.75%	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 107-75-5 EC-No. 203-518-7 Index-No. -	-	0.30%	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

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

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

## 4.2 Most important symptoms and effects, both acute and delayed

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

## 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

- 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. Chloride fumes. Chlorides.

### 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

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Personal precautions : Ensure adequate ventilation. Avoid skin contact.

## 6.2 Environmental precautions

Environmental precautions : Do not release to the environment.

## 6.3 Methods and materials for containment and cleaning up

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

## 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

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

### 7.2 Conditions for safe storage, including any incompatibilities

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

### 7.3 Specific end use(s)

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.

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

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

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

Respiratory protection : Not required under normal conditions of use.

Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: : solid

Odour : accord with standard sample

Odour threshold : no data available

pH : no data available

Melting point : no data available

Boiling point : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper/lower flammability or explosive limits : no data available

Vapour pressure : no data available

Vapour density : no data available

Relative density : no data available

Water solubility : not soluble

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

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Viscosity, dynamic : not applicable

Explosive properties : none

Oxidising properties : none

## 9.2 Other information

no data available

## SECTION 10: Stability and Reactivity

**10.1 Reactivity** : No hazardous reactions if stored and handled as prescribed/indicated.

**10.2 Chemical stability** : Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** : Product will not undergo polymerization.

**10.4 Conditions to avoid** : Avoid all sources of ignition: heat, sparks, open flame.

**10.5 Incompatible materials** : Strong acids. Strong bases. Strong oxidizers.

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

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

Eye contact, Skin contact, Inhalation

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

#### Acute Toxicity Endpoints:

##### Acute oral toxicity

#### Information for the Product:

Shall not be classified as acutely toxic (oral).

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

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

#### Information for components:

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Iso-methylionone

LD50, Rat, >5000 mg/kg

Verdox

LD50, Rat, >2000 mg/kg, estimated

Florol

LD50, rat, > 2 000 mg/kg bw

Geraniol

LD50, rat, 3600 mg/kg bw

Polyvinyl Chloride Compound

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

Isopropyl myristate

LD50, rat, > 2 000 mg/kg bw

Cyclacet

LD50, mouse, 5 400 mg/kg bw

Isononyl acetate

LD50, rat, 4250 mg/kg

Benzyl acetate

LD50, rat, 2000 mg/kg

Floralozone

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

Dimethyl benzyl

LD50, rat, ca. 3.3g/kg

Cyclaprop

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

Fructose

LD50, rat, > 5 g/kg

Hydroxycitronellal

LD50, rat, > 6 400 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.

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## Information for components:

Iso-methylionone

LD50, rabbit, >5000 mg/kg

Verdox

LD50, rabbit, >2000 mg/kg, estimated

Florol

LD50, rabbit, >2.0g/kg

Geraniol

LD50, rabbit, > 5 000 mg/kg bw

Polyvinyl Chloride Compound

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

Isopropyl myristate

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

Cyclacet

LD50, rabbit, > 5 000 mg/kg

Isononyl acetate

LD50, rabbits, >5000 mg/kg bw

Benzyl acetate

LD50, rabbit, > 5g/kg bw

Floralozone

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

Dimethyl benzyl

LD50,rabbits, > 3 000 mg/kg bw

Cyclaprop

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

Fructose

LD50, rabbit, > 5 g/kg

Hydroxycitronellal

LD50, rabbit, > 2 000 mg/kg bw

## Acute inhalation toxicity

Information for the Product:

Shall not be classified as acutely toxic (inhalation).

As product: The LC50 has not been determined.

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Based on information for component(s): LC50, rat, >5.0 mg/L air, estimated

Information for components:

Iso-methylionone

LC50, rat, >20 mg/L, estimated

Verdox

LC50, rat, >20 mg/L, estimated

Florol

LC50, rat, >20 mg/L, estimated

Geraniol

LC50, rat, >20 mg/L, estimated

Polyvinyl Chloride Compound

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

Isopropyl myristate

LC50, rat, > 5.3 mg/L air (analytical)

Cyclacet

LCLo, rat, 4h, 1010 mg/m<sup>3</sup> air

Isononyl acetate

LC50, rat, 6h, > 8 000 000 mg/m<sup>3</sup> air

Benzyl acetate

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

Floralozone

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

Dimethyl benzyl

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

Cyclaprop

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

Fructose

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

Hydroxycitronellal

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

## Skin corrosion/irritation

### Information for the Product:

Shall not be classified as corrosive/irritant to skin.

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## Information for components:

Iso-methylionone  
Causes skin irritation

Verdox  
Shall not be classified as corrosive/irritant to skin

Florol  
Shall not be classified as corrosive/irritant to skin

Geraniol  
Shall not be classified as corrosive/irritant to skin

Polyvinyl Chloride Compound  
Shall not be classified as corrosive/irritant to skin

Isopropyl myristate  
Shall not be classified as corrosive/irritant to skin

Cyclacet  
Shall not be classified as corrosive/irritant to skin

Isononyl acetate  
Shall not be classified as corrosive/irritant to skin

Benzyl acetate  
Shall not be classified as corrosive/irritant to skin

Floralozone  
Shall not be classified as corrosive/irritant to skin

Dimethyl benzyl  
Shall not be classified as corrosive/irritant to skin

Cyclaprop  
Shall not be classified as corrosive/irritant to skin

Fructose  
Shall not be classified as corrosive/irritant to skin

Hydroxycitronellal  
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:

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Iso-methylionone

Causes serious eye irritation

Verdox

Shall not be classified as irritant to eye

Florol

Causes serious eye irritation

Geraniol

Shall not be classified as irritant to eye

Polyvinyl Chloride Compound

Shall not be classified as irritant to eye

Isopropyl myristate

Shall not be classified as irritant to eye

Cyclacet

Shall not be classified as irritant to eye

Isononyl acetate

Shall not be classified as irritant to eye

Benzyl acetate

Shall not be classified as irritant to eye

Floralozone

Shall not be classified as irritant to eye

Dimethyl benzyl

Shall not be classified as irritant to eye

Cyclaprop

Causes serious eye irritation

Fructose

Shall not be classified as irritant to eye

Hydroxycitronellal

Causes serious eye irritation

## Respiratory or skin sensitisation

### Information for the Product:

May cause an allergic skin reaction

### Information for components:

Iso-methylionone

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For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Verdox

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Florol

For skin sensitization:

Shall not be classified as a skin sensitiser

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.

Polyvinyl Chloride Compound

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Isopropyl myristate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Cyclacet

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Isononyl acetate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Benzyl acetate

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

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Floralozone

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Dimethyl benzyl

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Cyclaprop

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Fructose

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.

## **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

Verdox

Shall not be classified as germ cell mutagenic

Florol

Shall not be classified as germ cell mutagenic

Geraniol

Shall not be classified as germ cell mutagenic

Polyvinyl Chloride Compound

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Shall not be classified as germ cell mutagenic

Isopropyl myristate

Shall not be classified as germ cell mutagenic

Cyclacet

Shall not be classified as germ cell mutagenic

Isononyl acetate

Shall not be classified as germ cell mutagenic

Benzyl acetate

Shall not be classified as germ cell mutagenic

Floralozone

Shall not be classified as germ cell mutagenic

Dimethyl benzyl

Shall not be classified as germ cell mutagenic

Cyclaprop

Shall not be classified as germ cell mutagenic

Fructose

Shall not be classified as germ cell mutagenic

Hydroxycitronellal

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

Verdox

Shall not be classified as carcinogenic

Florol

Shall not be classified as carcinogenic

Geraniol

Shall not be classified as carcinogenic

Polyvinyl Chloride Compound

Shall not be classified as carcinogenic

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Isopropyl myristate  
Shall not be classified as carcinogenic

Cyclacet  
Shall not be classified as carcinogenic

Isononyl acetate  
Shall not be classified as carcinogenic

Benzyl acetate  
Shall not be classified as carcinogenic

Floralozone  
Shall not be classified as carcinogenic

Dimethyl benzyl  
Shall not be classified as carcinogenic

Cyclaprop  
Shall not be classified as carcinogenic

Fructose  
Shall not be classified as carcinogenic

Hydroxycitronellal  
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  
Shall not be classified as a reproductive toxicant

Verdox  
Shall not be classified as a reproductive toxicant

Florol  
Shall not be classified as a reproductive toxicant

Geraniol  
Shall not be classified as a reproductive toxicant

Polyvinyl Chloride Compound  
Shall not be classified as a reproductive toxicant

Isopropyl myristate  
Shall not be classified as a reproductive toxicant

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Cyclacet

Shall not be classified as a reproductive toxicant

Isononyl acetate

Shall not be classified as a reproductive toxicant

Benzyl acetate

Shall not be classified as a reproductive toxicant

Floralozone

Shall not be classified as a reproductive toxicant

Dimethyl benzyl

Shall not be classified as a reproductive toxicant

Cyclaprop

Shall not be classified as a reproductive toxicant

Fructose

Shall not be classified as a reproductive toxicant

Hydroxycitronellal

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)

Verdox

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)

Geraniol

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

Polyvinyl Chloride Compound

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

Isopropyl myristate

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

Cyclacet

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

Isononyl acetate

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

Benzyl acetate

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

Floralozone

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

Dimethyl benzyl

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

Cyclaprop

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

Fructose

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)

## **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)

Verdox

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

Florol

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

Geraniol

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

Polyvinyl Chloride Compound

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

Isopropyl myristate

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

Cyclacet

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

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Isononyl acetate

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)

Floralozone

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

Dimethyl benzyl

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

Cyclaprop

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

Fructose

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)

## 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

Verdox

Shall not be classified as presenting an aspiration hazard

Florol

Shall not be classified as presenting an aspiration hazard

Geraniol

Shall not be classified as presenting an aspiration hazard

Polyvinyl Chloride Compound

Shall not be classified as presenting an aspiration hazard

Isopropyl myristate

Shall not be classified as presenting an aspiration hazard

Cyclacet

Shall not be classified as presenting an aspiration hazard

Isononyl acetate

Shall not be classified as presenting an aspiration hazard

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Benzyl acetate

Shall not be classified as presenting an aspiration hazard

Floralozone

Shall not be classified as presenting an aspiration hazard

Dimethyl benzyl

Shall not be classified as presenting an aspiration hazard

Cyclaprop

Shall not be classified as presenting an aspiration hazard

Fructose

Shall not be classified as presenting an aspiration hazard

Hydroxycitronellal

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:

### **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.

### **Verdox**

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

### **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.

### **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.

### **Polyvinyl Chloride Compound**

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.

### **Isopropyl myristate**

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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## **Cyclacet**

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.

## **Isononyl 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.

## **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.

## **Floralozone**

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.

## **Dimethyl benzyl**

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.

## **Cyclaprop**

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.

## **Fructose**

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.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Iso-methylionone**

Short-term toxicity to fish  
EC50, fish, 96h, 1.428 mg/L

Short-term toxicity to aquatic invertebrates  
EC50, Daphnia magna, 72h, 4.7 mg/L,  
OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria  
EC50, Desmodesmus subspicatus, 72h, >20 mg/L,  
OECD Guideline 201

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Toxicity to microorganisms

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

## Florol

Short-term toxicity to fish

High probability acutely not harmful to fish

LC50, 96h, 354 mg/L, OECD guideline 203

Short-term toxicity to aquatic invertebrates

With high probability acutely not harmful to aquatic invertebrates.

EC50, Daphnia magna, ca. 320 mg/l, OECD guideline 202

Toxicity to aquatic algae and cyanobacteria

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

Toxicity to microorganisms

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

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

## Geraniol

Short-term toxicity to fish

Acutely 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

## Isopropyl myristate

Short-term toxicity to fish

LC50, Lepomis macrochirus, 96h, > 1000 mg/L

Short-term toxicity to aquatic invertebrates

No effects up to the limit of water solubility.

Long-term toxicity to aquatic invertebrates

No long-term effects on reproduction of invertebrates are expected with Isopropyl myristate up to the limit of water solubility.

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Toxicity to aquatic algae and cyanobacteria  
No effects up to the limit of water solubility.

Toxicity to microorganisms  
No effects up to the limit of water solubility.

## **Cyclacet**

Short-term toxicity to fish  
LC50, *Carassius auratus*, 96h, 18.049 mg/L

Long-term toxicity to fish  
LC50, 14d, 346.663 mg/L, estimated

Short-term toxicity to aquatic invertebrates  
EC50, 48h, 53.81 mg/L, estimated

Toxicity to aquatic algae and cyanobacteria  
EC50, *Pseudokirchnerella subcapitata*, 72h, 13.07479 mg/L

Toxicity to microorganisms  
IGC50, *Tetrahymena pyriformis*, 48h, 24.5 mg/L

## **Isononyl acetate**

Short-term toxicity to aquatic invertebrates  
EC50, *Daphnia magna*, 48h, 116 mg/L

Toxicity to aquatic algae and cyanobacteria  
EC50, *Desmodesmus subspicatus*, 72h, 120 mg/l

## **Benzyl acetate**

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

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

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

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

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

## **Dimethyl benzyl**

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Short-term toxicity to fish  
LC50, 96h, ca. 8.901 mg/L

Long-term toxicity to fish  
ChV, 14 d, ca. 0.818 mg/L

Long-term toxicity to aquatic invertebrates  
ChV, 21 d, ca. 0.729 mg/L

Toxicity to aquatic algae and cyanobacteria  
EC50, 96h, ca. 4.766 mg/L

## Fructose

Short-term toxicity to fish  
LC50, *Oncorhynchus mykiss*, 96h, > 100 mg/L,  
OECD Guideline 203

Short-term toxicity to aquatic invertebrates  
EC0, *Daphnia magna*, 48h,  $\geq$  99 mg/L

Toxicity to aquatic algae and cyanobacteria  
EC50, 72h, > 100 mg/L  
NOEC, 72h, 100 mg/L

Toxicity to microorganisms  
EC50, 3h, > 1000 mg/L, OECD 209  
NOEC, 3h, 1000 mg/L, OECD 209

## 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

## 12.2 Persistence and degradability

Iso-methylionone  
Biodegradability:

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inherently biodegradable  
Biodegradation: 42.51%  
Exposure time: 28d  
Method: OECD Guideline 301 D

Florol  
Inherently biodegradable  
Biodegradation: 64.8%  
Exposure time: 60d

Geraniol  
Readily biodegradable  
Biodegradation: 90 - 100 %  
Exposure time: 3d  
Method: OECD 301A

Isopropyl myristate  
readily biodegradable  
Biodegradation: 91.4%  
Exposure time: 28d  
Method: OECD 301B

Cyclacet  
readily biodegradable

Isononyl acetate  
readily biodegradable  
Biodegradation: 90.83%  
Exposure time: 28d  
Method: OECD Guideline 301 C

Benzyl acetate  
readily biodegradable  
Biodegradation: 100.9%  
Exposure time: 28d  
Method: OECD Guideline 301 B

Dimethyl benzyl  
readily biodegradable

Fructose  
Not readily biodegradable  
Biodegradation: 3%  
Exposure time: 28d  
Method: EU method C.4-E

Hydroxycitronellal  
Readily biodegradable  
Biodegradation: 80 - 90 %  
Exposure time: 28d  
Method: OECD 301F

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## 12.3 Bioaccumulative potential

Verdox

BCF : 77 L/kg

Florol

Not expected to accumulate in organisms.

Geraniol

The substance is not expected to significantly accumulate in organisms.

Isopropyl myristate

The substance is not bioaccumulative.

Cyclacet

BCF: 1.4, estimated

Isononyl acetate

Is not expected to bioaccumulate in the food chain

BCF: 286.4 L/kg, estimated

Benzyl acetate

The substance is not expected to bioaccumulate in living organisms.

BCF: 8

Floralozone

BCF: 513

Hydroxycitronellal

Bioaccumulation is not expected.

## 12.4 Mobility in soil

Iso-methylionone

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

Verdox

Koc: 117

Florol

Adsorption to solid soil phase is not expected.

log Koc: 1.62

Koc: 41.48

Geraniol

Adsorption to solid soil phase is not expected.

log Koc: 1.85

Isopropyl myristate

There is a high adsorption of Isopropyl myristate to soil and sediment particles.

Log Koc: 4.83

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Cyclacet

Koc: 533.12(20 °C)

Isononyl acetate

Koc: 4 849(20 °C)

Benzyl acetate

Koc: 250(20 °C)

Floralozone

Koc: 331

Fructose

Koc: 24.97(20 °C)

Hydroxycitronellal

Adsorption to solid soil phase is not expected.

log Koc: 1

## 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).

### Verdox

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

### 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).

### 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).

### Polyvinyl Chloride Compound

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).

### Isopropyl myristate

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).

### Cyclacet

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).

### Isononyl acetate

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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).

## **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).

## **Floralozone**

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).

## **Dimethyl benzyl**

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).

## **Cyclaprop**

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).

## **Fructose**

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).

## **12.6 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**

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

### **Verdox**

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

### **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.

### **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.

### **Polyvinyl Chloride Compound**

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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.

## **Isopropyl myristate**

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.

## **Cyclacet**

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.

## **Isononyl 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.

## **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.

## **Floralozone**

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.

## **Dimethyl benzyl**

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.

## **Cyclaprop**

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.

## **Fructose**

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.

## **12.7 Other adverse effects**

### **Iso-methylionone**

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

### **Verdox**

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

### **Florol**

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

### **Geraniol**

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

## **Polyvinyl Chloride Compound**

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

## **Isopropyl myristate**

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

## **Cyclacet**

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

## **Isononyl acetate**

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.

## **Floralozone**

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

## **Dimethyl benzyl**

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

## **Cyclaprop**

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

## **Fructose**

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

## **Hydroxycitronellal**

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

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- 14.5. Environmental hazards : no
- 14.6. Special precautions for user : none

## Sea transport

### IMDG

- 14.1. UN number : not applicable
- 14.2. UN proper shipping name: : not applicable
- 14.3. Transport hazard class(es): : not applicable
- 14.4. Packing group : not applicable
- 14.5. Environmental hazards : no
- 14.6. Special precautions for user : none
- 14.7. Maritime transport in bulk according to IMO instruments : Consult IMO regulations before transporting ocean bulk

## Air transport

### IATA/ICAO

- 14.1. UN number: : not applicable
- 14.2. UN proper shipping name: : not applicable
- 14.3. Transport hazard class(es): : not applicable
- 14.4. Packing group: : not applicable
- 14.5. Environmental hazards: : no
- 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

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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

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
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

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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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