



# SAFETY DATA SHEET

This Safety Data Sheet (SDS) was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 (in particular as amended by Commission Regulation (EU) 2020/878 with respect to SDSs) and Regulation (EC) No. 1272/2008 (CLP)

Issuing Date: 26-Mar-2024

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Revision Number 1

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

### 1.1. Product identifier

**Product Identifier** C-21046396-001\_RET\_CLPR7\_EUR  
**Product Name** Febreze Bathroom Orange Blossom and Coastal Cypress Air Freshener  
**Product Form** Mixture  
**Pure substance/mixture** Mixture

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

**Recommended use** Intended for general public  
**Uses advised against** No information available  
**Main user category** SU 21 - Consumer uses: Private households (= general public = consumers)  
**Product category** Non-Energized & Continuous  
**Use category** PC3 - Air care products

### 1.3. Details of the supplier of the safety data sheet

Supplier	Manufacturer
Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200	Zobe Bulgaria Eood Plovdiv district, Industrial zone Rakovski warehouse 2 Bulgaria, +359 2 9154 409, E-mail: poison_centre@mail.orbitel.bg; <a href="http://www.pirogov.bg">http://www.pirogov.bg</a>
P&G DCE bvba/spri-Belgium Dist. Div., Temselaan 100, B-1853 Strombeek-Bever, Belgium (IE) 1800 535 119	

For further information, please contact

**E-mail address** pgsds.im@pg.com

### 1.4. Emergency telephone number

Emergency Telephone (UK) Emergency Tel: 0800 328 8304 (IRL) Emergency Tel: 1800 509 497

(IRL) Poisons information: for information or to report a poisoning incident contact The National Poisons Information Centre 01 8092166 (8.00 a.m. to 10.00 p.m. 7 days a week)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
<b>Skin sensitization</b>	Category 1 - (H317)
<b>Chronic aquatic toxicity</b>	Category 2 - (H411)

### 2.2. Label elements



**Signal word**  
 Warning

**Hazard statements**

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

**Precautionary Statements - EU (§28, 1272/2008)**

P102 - Keep out of reach of children  
 P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes  
 P501 - Dispose of contents/container to an appropriate local waste system  
 P312 - Call a POISON CENTRE/doctor if you feel unwell  
 P302 + P352 - IF ON SKIN: Wash with plenty of water

**2.3. Other hazards**

No information available

**Endocrine Disruptor Information** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	CAS No.	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
2,6-Dimethyl-7-Octen-2-ol	18479-51-1	10 - 20	No data available	242-359-8 242-362-4	Skin Irrit. 2 (H315)	-	-	-
2-t-Butylcyclohexyl Acetate	88-41-5	10 - 20	01-21199707 13-33	201-828-7	Aquatic Chronic 2 (H411)	-	-	-
Phenethyl Alcohol	60-12-8	10 - 20	01-21199639 21-31	200-456-2	Acute Tox. 4 (Oral) (H302) Eye Irrit. 2 (H319)	-	-	-
Trimethylhexyl Acetate	58430-94-7	5 - 10	No data available	261-245-9	Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315)	-	-	-
Phenylisohexanol	55066-48-3	5 - 10	01-21199694 46-23	259-461-3	Acute Tox. 4 (Oral) (H302)	-	-	-
Linalool	78-70-6	5 - 10	01-21194740	201-134-4	Eye Irrit. 2	-	-	-

			16-42		(H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)			
Citronellol	106-22-9	1 - 5	01-21194539 95-23	203-375-0	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Citronellyl Acetate	150-84-5	1 - 5	01-21199598 60-27	205-775-0	Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315)	-	-	-
Geraniol	106-24-1	1 - 5	01-21195524 30-49	203-377-1	Eye Dam. 1 (H318) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	-	-	-
Anisaldehyde	123-11-5	1 - 5	01-21199771 01-43	204-602-6	Aquatic Chronic 3 (H412)	-	-	-
Cyclamen Aldehyde	103-95-7	1 - 5	01-21199705 82-32	203-161-7	Aquatic Chronic 3 (H412) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	68039-49-6	1 - 5	01-21199823 84-28	268-264-1	Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	-	-	-
Limonene	5989-27-5	1 - 5	01-21195292 23-47	227-813-5	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
p-Menthan-7-ol	13828-37-0	1 - 5	No data available	237-539-8	Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Eugenol	97-53-0	1 - 5	01-21199718 02-33	202-589-1	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	-	-	-
Isoamyl	67634-00-8	0 - 1	No data	266-803-5	Acute Tox. 2	-	-	-

Allylglycolate			available	266-804-0 916-328-0	(Inhalation:d ust,mist) (H330) Acute Tox. 4 (Oral) (H302) Skin Irrit. 2 (H315)			
Cinnamal	104-55-2	0 - 1	No data available	203-213-9	Acute Tox. 4 (Dermal) (H312) Aquatic Chronic 3 (H412) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1A (H317)	Skin Sens. 1A :: 0.01%<=C<1 00%	-	-
Phenethyl Salicylate	87-22-9	0 - 1	No data available	201-732-5	Aquatic Chronic 2 (H411) Skin Sens. 1B (H317)	-	-	-
Phenylacetaldehyde	122-78-1	0 - 1	No data available	204-574-5	Acute Tox. 4 (Oral) (H302) Aquatic Chronic 3 (H412) Eye Dam. 1 (H318) Skin Corr. 1B (H314) Skin Sens. 1B (H317)	-	-	-
Alpha-Damascone	24720-09-0	0 - 1	No data available	245-845-8 246-430-4	Acute Tox. 4 (Oral) (H302) Aquatic Chronic 2 (H411) Skin Sens. 1B (H317)	-	-	-
6,6-Dimethylbicyclo[ 3.1.1]hept-2-ene-2- Propionaldehyde	33885-51-7	0 - 1	No data available	251-717-2	Acute Tox. 4 (Oral) (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Eye Irrit. 2 (H319) Repr. 2 (H361) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Cyclopropanemetha nol, 1-Methyl-2-[[1,2,2-tri methylbicyclohex-3y	198404-98-7	0 - 1	01-00000174 24-73	606-389-9	Aquatic Acute 1 (H400) Aquatic Chronic 1	-	-	-

[methyl]-					(H410)			
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**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate  
No information available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (Call a physician if symptoms occur).
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. Remove and isolate contaminated clothing and shoes. Get medical attention if symptoms occur. Discontinue use of product.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	Coughing and/ or wheezing. Redness. Swelling of tissue. Itching. Drowsiness. Dizziness. Sneezing. Dryness. Pain. Blurred vision. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion. Shortness of breath. Headache.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Dry chemical. Alcohol resistant foam. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

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

<b>Specific hazards arising from the chemical</b>	None in particular.
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### 5.3. Advice for firefighters

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for containment</b>	Scoop absorbed substance into closing containers.
<b>Methods for cleaning up</b>	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small quantities of liquid spill: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
<b>6.4. Reference to other sections</b>	
<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage**

<b>7.1. Precautions for safe handling</b>	
<b>Advice on safe handling</b>	Avoid contact with skin. Avoid contact with eyes. Use personal protection equipment. Do not eat, drink or smoke when using this product. Use only with adequate ventilation. People suffering from perfume sensitivity should be cautious when using this product. Air Fresheners do not replace good hygiene practices.
<b>General hygiene considerations</b>	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	
<b>Storage Conditions</b>	Keep/store only in original container. Keep tightly closed in a dry and cool place.
<b>7.3. Specific end use(s)</b>	
<b>Risk Management Methods (RMM)</b>	The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**  
**Exposure Limits**

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Limonene	-	-	-	TWA: 25 ppm TWA: 150 mg/m <sup>3</sup> STEL: 50 ppm STEL: 300 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>
Chemical name	France	Germany	Germany DFG	Greece	Hungary
Phenethyl Alcohol	-	-	*	-	-
Geraniol	-	-	skin sensitizer	-	-
Limonene	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> H*	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> Peak: 20 ppm Peak: 112 mg/m <sup>3</sup> *	-	-
Eugenol	-	-	skin sensitizer	-	-
Cinnamal	-	Skin sensitizer	skin sensitizer	-	-
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Limonene	-	-	-	-	Sensitizer TWA: 25 ppm TWA: 150 mg/m <sup>3</sup> STEL: 50 ppm STEL: 300 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Limonene	-	-	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	-

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Limonene	-	-	-	TWA: 28 mg/m <sup>3</sup> TWA: 5 ppm STEL: STEL ppm STEL: STEL mg/m <sup>3</sup> *	TWA: 30 ppm TWA: 168 mg/m <sup>3</sup> vía dérmica* sensitizer
Chemical name	Sweden	Switzerland	United Kingdom	Israel - Occupational Exposure Limits - TWAs	Turkey
Limonene	NGV: 25 ppm NGV: 150 mg/m <sup>3</sup> Sensitizer	TWA: 7 ppm TWA: 40 mg/m <sup>3</sup> STEL: 14 ppm STEL: 80 mg/m <sup>3</sup>	-	-	-

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) Long term.

Chemical name	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Phenethyl Alcohol	21.2 mg/kg bw/day	59.9 mg/m <sup>3</sup>	-	-
Phenylisohexanol	0.5 mg/kg bw/day	0.88 mg/m <sup>3</sup>	0.13 mg/cm <sup>2</sup>	-
Linalool	3.5 mg/kg bw/day	24.58 mg/m <sup>3</sup>	3 mg/cm <sup>2</sup>	-
Citronellol	327.4 mg/kg bw/day	161.6 mg/m <sup>3</sup>	-	10 mg/m <sup>3</sup>
Citronellyl Acetate	4.8 mg/kg bw/day	17 mg/m <sup>3</sup>	-	-
Geraniol	12.5 mg/kg bw/day	161.6 mg/m <sup>3</sup>	11.8 mg/cm <sup>2</sup>	-
Anisaldehyde	3.33 mg/kg bw/day	5.88 mg/m <sup>3</sup>	-	-
Cyclamen Aldehyde	0.35 mg/kg bw/day	1.23 mg/m <sup>3</sup>	0.00743 mg/cm <sup>2</sup>	-
Limonene	9.5 mg/kg bw/day	66.7 mg/m <sup>3</sup>	-	-
Eugenol	6 mg/kg bw/day	21.2 mg/m <sup>3</sup>	-	-
Isoamyl Allylglycolate	1.4 mg/kg bw/day	4.93 mg/m <sup>3</sup>	-	-
Cinnamal	1.75 mg/kg bw/day	6.11 mg/m <sup>3</sup>	-	-
Phenethyl Salicylate	14 mg/kg bw/day	4.93e+007 mg/m <sup>3</sup>	-	-
Phenylacetaldehyde	0.7 mg/kg bw/day	4.94 mg/m <sup>3</sup>	-	-
Alpha-Damascone	0.78 mg/kg bw/day	2.74 mg/m <sup>3</sup>	-	-
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	1 mg/kg bw/day	3.5 mg/m <sup>3</sup>	0.8 mg/cm <sup>2</sup>	-
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	1.75 mg/kg bw/day	6.17 mg/m <sup>3</sup>	-	-

Chemical name	Consumer - oral, long-term - local	Consumer - inhalative, long-term - local	Consumer - dermal, long-term - local
Phenylisohexanol	-	-	0.065 mg/cm <sup>2</sup>
Linalool	-	-	1.5 mg/cm <sup>2</sup>
Citronellol	-	10 mg/m <sup>3</sup>	-
Geraniol	-	-	11.8 mg/cm <sup>2</sup>
Cyclamen Aldehyde	-	-	0.00372 mg/cm <sup>2</sup>
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	-	-	0.48 mg/cm <sup>2</sup>

Chemical name	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
Phenethyl Alcohol	5.1 mg/kg bw	17.7 mg/m <sup>3</sup>	12.7 mg/kg bw/day
Phenylisohexanol	0.06 mg/kg bw	0.21 mg/m <sup>3</sup>	0.25 mg/kg bw/day
Linalool	2.49 mg/kg bw	4.33 mg/m <sup>3</sup>	1.25 mg/kg bw/day
Citronellol	13.8 mg/kg bw	47.8 mg/m <sup>3</sup>	196.4 mg/kg bw/day

Citronellyl Acetate	2.4 mg/kg bw	4.2 mg/m <sup>3</sup>	2.4 mg/kg bw/day
Geraniol	13.75 mg/kg bw	47.8 mg/m <sup>3</sup>	7.5 mg/kg bw/d
Anisaldehyde	1 mg/kg bw	1.74 mg/m <sup>3</sup>	2 mg/kg bw/day
Cyclamen Aldehyde	0.13 mg/kg bw	0.22 mg/m <sup>3</sup>	0.13 mg/kg bw/day
Limonene	4.8 mg/kg bw	16.6 mg/m <sup>3</sup>	4.8 mg/kg bw/day
Eugenol	3 mg/kg bw	5.22 mg/m <sup>3</sup>	3 mg/kg bw/day
Isoamyl Allylglycolate	0.5 mg/kg bw	0.87 mg/m <sup>3</sup>	0.5 mg/kg bw/day
Cinnamal	0.625 mg/kg bw	1.09 mg/m <sup>3</sup>	0.625 mg/kg bw/day
Phenethyl Salicylate	5 mg/kg bw	8.7e+006 mg/m <sup>3</sup>	5 mg/kg bw/day
Phenylacetaldehyde	0.25 mg/kg bw	0.87 mg/m <sup>3</sup>	0.25 mg/kg bw/day
Alpha-Damascone	0.39 mg/kg bw	0.67 mg/m <sup>3</sup>	0.39 mg/kg bw/day
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	0.6 mg/kg bw	1.04 mg/m <sup>3</sup>	0.6 mg/kg bw/day
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	0.625 mg/kg bw	1.09 mg/m <sup>3</sup>	0.625 mg/kg bw/day

**Derived No Effect Level (DNEL)** Short term.

Chemical name	Worker - dermal, short-term - systemic	Worker - inhalative, short-term - systemic	Worker - dermal, short-term - local	Worker - inhalative, short-term - local
Phenylisohexanol	3 mg/kg bw/day	5.3 mg/m <sup>3</sup>	3 mg/kg bw/day	-
Linalool	-	16.5 mg/m <sup>3</sup>	3 mg/cm <sup>2</sup>	3 mg/cm <sup>2</sup>
Citronellol	-	-	2.95 mg/cm <sup>2</sup>	10 mg/m <sup>3</sup>
Limonene	-	-	0.222 mg/cm <sup>2</sup>	-

Chemical name	Consumer - inhalative, short-term - local	Consumer - dermal, short-term - local
Phenylisohexanol	-	0.39 mg/cm <sup>2</sup>
Linalool	-	1.5 mg/cm <sup>2</sup>
Citronellol	10 mg/m <sup>3</sup>	2.95 mg/cm <sup>2</sup>
Limonene	-	0.111 mg/cm <sup>2</sup>

Chemical name	Consumer - oral, short-term - systemic	Consumer - inhalative, short-term - systemic	Consumer - dermal, short-term - systemic
Phenethyl Alcohol	5.1 mg/kg bw	-	-
Phenylisohexanol	0.375 mg/kg bw	1.3 mg/m <sup>3</sup>	1.5 mg/kg bw/day
Linalool	1.2 mg/kg bw/d	4.1 mg/m <sup>3</sup>	2.5 mg/kg bw/d

**Predicted No Effect Concentration (PNEC)**

Chemical name	Fresh Water	Marine water	Intermittent release
Phenethyl Alcohol	0.215 mg/L	0.021 mg/L	2.15 mg/L
Phenylisohexanol	0.013 mg/L	0.001 mg/L	0.13 mg/L
Linalool	0.2 mg/L	0.02 mg/L	2 mg/L
Citronellol	0.002 mg/L	0 mg/L	0.024 mg/L
Citronellyl Acetate	0.003 mg/L	0 mg/L	0.035 mg/L
Geraniol	0.011 mg/L	0.001 mg/L	0.108 mg/L
Anisaldehyde	0.013 mg/L	0.001 mg/L	0.811 mg/L
Cyclamen Aldehyde	0.009 mg/L	0.001 mg/L	0.014 mg/L
Limonene	0.014 mg/L	0.001 mg/L	-
Eugenol	0.001 mg/L	0 mg/L	0.011 mg/L
Isoamyl Allylglycolate	0.001 mg/L	0 mg/L	0.008 mg/L
Cinnamal	0.003 mg/L	0 mg/L	0.032 mg/L
Phenethyl Salicylate	0.005 mg/L	0.001 mg/L	0.049 mg/L
Phenylacetaldehyde	0.002 mg/L	0 mg/L	0.016 mg/L
Alpha-Damascone	1090 mg/L	110 mg/L	10900 mg/L
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	0 mg/L	0 mg/L	-
Cyclopropanemethanol,	0.003 mg/L	0 mg/L	0.004 mg/L



1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-			
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Chemical name	Freshwater sediment	Marine sediment	Sewage treatment plant	Soil	Air	Oral
Phenethyl Alcohol	1.454 mg/kg dwt	0.145 mg/kg dwt	10 mg/L	0.164 mg/kg dwt	-	-
Phenylisohexanol	1.034 mg/kg dwt	0.103 mg/kg dwt	10 mg/L	0.199 mg/kg dwt	-	-
Linalool	2.22 mg/kg dwt	0.222 mg/kg dwt	10 mg/L	0.327 mg/kg dwt	-	-
Citronellol	0.026 mg/kg dwt	0.003 mg/kg dwt	580 mg/L	0.004 mg/kg dwt	-	-
Citronellyl Acetate	0.851 mg/kg dwt	0.085 mg/kg dwt	10 mg/L	0.168 mg/kg dwt	-	-
Geraniol	0.115 mg/kg dwt	0.011 mg/kg dwt	0.7 mg/L	0.017 mg/kg dwt	-	-
Anisaldehyde	0.06 mg/kg dwt	0.006 mg/kg dwt	8.5 mg/L	0.004 mg/kg dwt	-	-
Cyclamen Aldehyde	1.02 mg/kg dwt	0.102 mg/kg dwt	1 mg/L	0.199 mg/kg dwt	-	-
Limonene	3.85 mg/kg dwt	0.385 mg/kg dwt	1.8 mg/L	0.763 mg/kg dwt	-	-
Eugenol	0.081 mg/kg dwt	0.008 mg/kg dwt	-	0.015 mg/kg dwt	-	-
Isoamyl Allylglycolate	0.009 mg/kg dwt	0.001 mg/kg dwt	-	0.001 mg/kg dwt	-	-
Cinnamal	0.041 mg/kg dwt	0.004 mg/kg dwt	7.1 mg/L	0.006 mg/kg dwt	-	-
Phenethyl Salicylate	2.97 mg/kg dwt	0.297 mg/kg dwt	-	0.59 mg/kg dwt	-	-
Phenylacetaldehyde	0.01 mg/kg dwt	0.001 mg/kg dwt	0.15 mg/L	0.001 mg/kg dwt	-	-
Alpha-Damascone	0.107 mg/kg dwt	0.011 mg/kg dwt	3.2 mg/L (3.2 mg/L)	0.021 mg/kg dwt	-	-
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	0.106 mg/kg dwt	0.011 mg/kg dwt	6.3 mg/L	0.978 mg/kg dwt	-	-
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	1.97 mg/kg dwt	0.197 mg/kg dwt	10 mg/L	0.392 mg/kg dwt	-	-

## 8.2. Exposure controls

### Personal Protective Equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	Wear suitable gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
<b>Environmental exposure controls</b>	Prevent that the undiluted product reaches surface waters.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid
<b>Color</b>	clear
<b>Odor</b>	Pleasant (perfume)
<b>Odor threshold</b>	Not applicable

Property	Values	Remarks • Method
<b>Melting point / freezing point</b>	No data available	Not available. This property is not relevant for the

<b>Initial boiling point and boiling range</b>	> 150 °C	safety and classification of this product
<b>Flammability</b>		Not applicable. This property is not relevant for liquid product forms
<b>Flammability Limit in Air</b>		Not available. This property is not relevant for the safety and classification of this product
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	> 60 °C	Closed cup
<b>Autoignition temperature</b>	No data available	Not available. This property is not relevant for the safety and classification of this product
<b>Decomposition temperature</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>pH</b>	No data available	Not available. This property is not relevant for the safety and classification of this product
<b>Dynamic viscosity</b>	0 - 150 cP	
<b>Water solubility</b>	Insoluble in water	
<b>Solubility(ies)</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>Partition coefficient</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>Vapor pressure</b>	No Data Available	Not available. This property is not relevant for the safety and classification of this product
<b>Relative density</b>	0.91 - 0.99	
<b>Relative vapor density</b>	No data available	Not available. This property is not relevant for the safety and classification of this product
<b>Particle characteristics</b>		Not available. This property is not relevant for the safety and classification of this product
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

**9.2. Other information**

9.2.1. Information with regard to physical hazard classes  
 No information available

9.2.2. Other safety characteristics  
 No information available

**Evaporation rate** 0.01 - 0.09

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

Hazardous decomposition products None known based on information supplied.

**SECTION 11: Toxicological information**

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

**Information on likely routes of exposure**

**Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Numerical measures of toxicity**

No information available

**Acute toxicity**

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-t-Butylcyclohexyl Acetate	= 4600 mg/kg ( Rat )	-	-
Phenethyl Alcohol	1603.3 mg/kg (RAT)	2535 mg/kg (RABBIT)	21 mg/L (RAT)
Trimethylhexyl Acetate	= 4250 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Phenylisohexanol	2500 mg/kg (RAT)	3100 mg/kg (RAT)	-
Linalool	2790 mg/kg bodyweight (RAT)	5610 mg/kg (RABBIT)	21 mg/L (RAT)
Citronellol	3450 mg/kg bodyweight (rat)	2650 mg/kg bodyweight (rabbit)	-
Citronellyl Acetate	6800 mg/kg (RAT)	5001 mg/kg (RABBIT)	-
Geraniol	3600 mg/kg (RAT)	5001 mg/kg (RABBIT)	-
Anisaldehyde	3210 mg/kg (RAT)	5001 mg/kg (RABBIT)	21 mg/L (RAT)
Cyclamen Aldehyde	4999 mg/kg (RAT)	5001 mg/kg (RAT)	-
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	-	5000 mg/kg (RABBIT)	-
Limonene	5001 mg/kg (RAT)	5001 mg/kg (RABBIT)	-
Eugenol	3000 mg/kg (RAT)	-	21 mg/L (RAT)
Isoamyl Allylglycolate	500 mg/kg (RAT)	5001 mg/kg (RAT)	0 mg/l/4h (RAT)
Cinnamal	2221 mg/kg (RAT)	1261 mg/kg (RABBIT)	68.9 mg/L (RAT)
Phenethyl Salicylate	-	5001 mg/kg (RABBIT)	-
Phenylacetaldehyde	1551 mg/kg (RAT)	-	-

Alpha-Damascone	1670 mg/kg (RAT)	2900 mg/kg (RAT)	-
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	1999 mg/kg (RAT)	-	-
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	5001 mg/kg (RAT)	5001 mg/kg (RAT)	-

Chemical name	Carcinogenicity	Species	Eye Damage	Species	Developmental toxicity	Species	Mutagenicity	Species
Phenethyl Alcohol	-	-	Y	-	-	-	-	-
Linalool	-	-	Y (OECD 405)	-	-	-	-	-
Citronellol	-	-	Y (OECD 405)	-	-	-	-	-
Geraniol	-	-	Y (OECD 405)	-	-	-	-	-
Eugenol	-	-	Y (OECD 405)	-	-	-	-	-
Cinnamal	-	-	Y (OECD 405)	-	-	-	-	-
Phenylacetaldehyde	-	-	Y (OECD 492)	-	-	-	-	-
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	-	-	Y (OECD 438)	-	(60 mg/kg bw/day (OECD 422))	-	-	-

Chemical name	Reproductive toxicity	Species	Skin corrosion/irritation	Species	Sensitization	Species
Phenethyl Alcohol	-	-	Y	-	-	-
Linalool	-	-	Y (OECD 404)	-	-	-
Citronellol	-	-	Y (OECD 404)	-	-	-
Citronellyl Acetate	-	-	Y (OECD 404)	-	-	-
Geraniol	-	-	Y (OECD 404)	-	-	-
Cyclamen Aldehyde	-	-	Y	-	-	-
Limonene	-	-	Y (OECD 404)	-	-	-
Eugenol	-	-	Y (OECD 404)	-	-	-
Isoamyl Allylglycolate	-	-	Y	-	-	-
Cinnamal	-	-	Y (OECD 404)	-	-	-
Phenylacetaldehyde	-	-	Y (OECD 431)	-	-	-
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	(Y (OECD 422))	-	Y (OECD 439)	-	-	-

Chemical name	Skin sensitization	Species	STOT - single exposure	Target Organs	Species	STOT - repeated exposure	Target Organs	Species	Aspiration hazard
Phenylisohexanol	-	-	-	-	-	(15 mg/kg bw/d (OECD 407))	-	-	-
Linalool	Y (OECD 429)	-	-	-	-	-	-	-	-
Citronellol	Y (OECD 429)	-	-	-	-	-	-	-	-
Geraniol	Y (//OECD 429)	-	-	-	-	-	-	-	-
Cyclamen Aldehyde	Y (OECD 429)	-	-	-	-	-	-	-	-
Limonene	Y (OECD 429)	-	-	-	-	-	-	-	-
Eugenol	Y (OECD 429)	-	-	-	-	-	-	-	-
Cinnamal	Y	-	-	-	-	-	-	-	-

Chemical name	Skin sensitization	Species	STOT - single exposure	Target Organs	Species	STOT - repeated exposure	Target Organs	Species	Aspiration hazard
Phenethyl Salicylate	Y (OECD 406)	-	-	-	-	-	-	-	-
Phenylacetaldehyde	Y (OECD 429)	-	-	-	-	-	-	-	-
Alpha-Damascone	Y (OECD 429)	-	-	-	-	-	-	-	-
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	Y (EPA OPPTS 870.2600)	-	-	-	-	-	-	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Irritating to skin.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** None known.

**Carcinogenicity** None known.

**Reproductive toxicity** None known.

**STOT - single exposure** None known.

**STOT - repeated exposure** None known.

**Aspiration hazard** Not applicable.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

**11.2.2. Other information**

**Other adverse effects** None known.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phenethyl Alcohol	1300 mg/L (Desmodesmus subspicatus; 72 h)	215 mg/L (Leuciscus idus; 96 h)	100 mg/L (OECD 209; activated sludge; 3 h)	287.17 mg/L (EU Method C.2; Daphnia magna; 48 h)
Trimethylhexyl Acetate	-	LC50: =7.7mg/L (96h, Pimephales promelas)	-	-
Phenylisohexanol	16 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	13.3 mg/L (OECD 203; Danio rerio; 96 h)	-	13 mg/L (OECD 202; Daphnia magna; 48 h)
Linalool	156.7 mg/L (Desmodesmus subspicatus; 96 h)	27.8 mg/L (OECD 203; Oncorhynchus mykiss; 96 h)	100 mg/L (OECD 209; activated sludge; 3 h)	59 mg/L (OECD 202; Daphnia magna; 48 h)
Citronellol	2.4 mg/L (72 h)	14.66 mg/L (German standard DIN 38 412, part L15.; Leuciscus idus; 96 h)	10000 mg/L (German standard, DIN 38412 Part 27; Pseudomonas putida; 0.5 h)	17.48 mg/L (EU Directive 79/831/EEC, Annex V, part C.; Daphnia magna; 48 h)
Citronellyl Acetate	7.2 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	6.1 mg/L (OECD 203; Danio rerio; 96 h)	-	3.48 mg/L
Geraniol	13.1 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	22 mg/L (OECD 203; Danio rerio; 96 h)	70 mg/L (OECD 209; activated sludge, domestic; 0.5 h)	10.8 mg/L (OECD 202; Daphnia magna; 48 h)
Anisaldehyde	68.4 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	148.32 mg/L (DIN 38 412, part L15; Leuciscus idus; 96 h)	(EC50: 850 mg/L (ISO 8192; activated sludge, domestic; 0.5 h))	82.8 mg/L (daphnia magna; 48 h)
Cyclamen Aldehyde	4.3 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	2.49 mg/L (96 h)	100 mg/L (OECD 209; activated sludge; 3 h)	1.4 mg/L (OECD 202; Daphnia magna; 48 h)
Limonene	0.32 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	0.72 mg/L (OECD 203; Pimephales promelas; 96 h)	(EC50: 209 mg/L (OECD 209; activated sludge of a predominantly domestic sewage; 3 h))	0.307 mg/L (OECD 202; Daphnia magna; 48 h)
Eugenol	24 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	13 mg/L (OECD 203; Danio rerio; 96 h)	-	1.05 mg/L (OECD 202; Daphnia magna; 48 h)
Isoamyl Allylglycolate	2.06 mg/L (Desmodesmus subspicatus or Pseudokirchneriella subcapitata; 96 h)	-	8.47 mg/L (OECD 209; activated sludge; 3 h)	5.09 mg/L (Daphnia; 48 h)
Cinnamal	6.87 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	2.35 mg/L (Danio rerio; 96 h)	71 mg/L (activated sludge; 3 h)	3.21 mg/L (OECD 202; Daphnia magna; 48 h)
Phenethyl Salicylate	35 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	-	2001 mg/L (Orynebacterium minutissimum, Escherichia coli, Staphylococcus aureus, Staphylococcus epidermis, Arthrobacter sp; 24 h)	15 mg/L (OECD 202; Daphnia magna; 48 h)
Phenylacetaldehyde	-	6.2 mg/L (OECD 203; Danio rerio; 96 h)	-	-
Alpha-Damascone	5 mg/L (OECD 201; algae species; 72 h)	1.09 mg/L (Oryzias latipes; 96 h)	275 mg/L (OECD 209; activated sludge; 3 h)	2.37 mg/L (OECD 202; Daphnia magna; 48 h)
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	4.2 mg/L (EU Method C.3; Pseudokirchneriella subcapitata; 72 h)	1.5 mg/L (OECD 203; Cyprinus carpio; 96 h)	1001 mg/L (EU Method C.11; activated sludge of a predominantly domestic sewage; 3 h)	0.67 mg/L (EU Method C.2; Daphnia magna; 48 h)
Cyclopropanemethanol,	0.74 mg/L (OECD 201;	1.02 mg/L (OECD 203;	-	0.38 mg/L (OECD 202;

1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	Raphidocelis subcapitata; 72 h)	Danio rerio; 96 h)		Daphnia magna; 48 h)
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### Chronic Toxicity

Chemical name	Toxicity to algae (NOEC or ECx)*	Toxicity to fish (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*	Toxicity to other organisms
Phenethyl Alcohol	430 mg/L (DIN 38 412; Desmodemus subspicatus; 3 d)	100 mg/L (Leuciscus idus; 4 d)	-	(100 mg/L (OECD 209; activated sludge; 0.125 d))	-
Phenylisohexanol	6.25 mg/L (OECD 201; Pseudokirchneriella subcapitata; 4 d)	-	10 mg/L (OECD 202; Daphnia magna; 2 d)	-	-
Linalool	54.3 mg/L (DIN 38412 L 9; Desmodemus subspicatus; 4 d)	3.5 mg/L (OECD 203; Oncorhynchus mykiss; 4 d)	25 mg/L (OECD 202; Daphnia magna; 2 d)	(> 100 mg/L (OECD 209; 0.125 d))	-
Citronellol	1.1 mg/L (Scenedesmus subspicatus; 3 d)	4.6 mg/L (German standard DIN 38 412, part L15.; Leuciscus idus; 4 d)	3.1 mg/L (EU Directive 79/831/EEC, Annex V, part C.; Daphnia magna; 2 d)	(580 mg/L (DIN 38412, Part 27; Pseudomonas putida; 0.02083 d))	-
Citronellyl Acetate	2.22 mg/L (OECD 201; Desmodemus subspicatus; 3 d)	2.3 mg/L (OECD 203; Danio rerio; 4 d)	1.08 mg/L (OECD 202; Daphnia magna; 2 d)	(> 1000 mg/L (OECD 209))	-
Geraniol	1 mg/L (OECD 201; Desmodemus subspicatus; 3 d)	10 mg/L (OECD 203; Danio rerio; 4 d)	-	(13 mg/L (OECD 209; 0.5 h))	-
Anisaldehyde	26.7 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d)	100 mg/L (DIN 38 412, part L15; Leuciscus idus; 4 d)	0.71 mg/L (OECD 211; Daphnia magna; 21 d)	(450 mg/L (ISO 8192; 0.5 h))	-
Cyclamen Aldehyde	0.72 mg/L (OECD 201; Pseudokirchneriella subcapitata; 4 d)	-	0.71 mg/L (OECD 211; Daphnia magna; 21 d)	-	-
Limonene	50 mg/L (OECD 201; Desmodemus subspicatus; 3 d)	0.19 mg/L (0.19 - 0.059 mg/L (OECD 212; Pimephales promelas; 8 d))	-	(18 mg/L (OECD 209; 0.125 d))	-
Eugenol	23 mg/L (OECD 201; Desmodemus subspicatus; 3 d)	10 mg/L (OECD 203; danio rerio; 4 d)	-	-	-
Cinnamal	37.23 mg/L (Pseudokirchneriella subcapitata; 3 d)	15.159 mg/L (Fresh water fish; 28 d)	0.402 mg/L (OECD 211; Daphnia magna; 21 d)	-	-
Alpha-Damascone	-	-	-	(32 mg/L (OECD 209; activated sludge; 0.125 d))	-
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	0.14 mg/L (OECD 201; Raphidocelis subcapitata; 3 d)	0.055 mg/L (OECD 210; Danio rerio; 30 d)	0.031 mg/L (OECD 211; Daphnia magna; 21 d)	-	-

### 12.2. Persistence and degradability

#### Persistence and degradability

Chemical name	Ready Biodegradation Test (OECD 301)	Abiotic Degradation Hydrolysis	Abiotic Degradation Photolysis	Biodegradation Other Tests
Phenethyl Alcohol	106.3 % (OECD 301 B; 28 d)	-	-	-
Phenylisohexanol	96 % (O <sub>2</sub> ; OECD 301 F; 28 d)	-	-	-
Linalool	64.2 % (O <sub>2</sub> ; OECD 301 D; 28 d)	-	-	-
Citronellol	(O <sub>2</sub> ; 28 d)	-	-	-
Citronellyl Acetate	93 % (CO <sub>2</sub> ; OECD 310; 28 d)	-	-	-
Geraniol	(OECD 301 A; 3 d)	-	-	-
Anisaldehyde	97 % (DOC; OECD 301 E; 6 d)	-	-	-

Cyclamen Aldehyde	65.5 % (CO <sub>2</sub> ; OECD 301 B; 28 d)	-	-	-
Limonene	71.4 % (CO <sub>2</sub> ; OECD 301 B; 28 d)	-	-	-
Eugenol	82 % (O <sub>2</sub> ; 28 d)	-	-	-
Isoamyl Allylglycolate	78.12 % (CO <sub>2</sub> ; OECD 301 B; 28 d)	-	-	-
Cinnamal	50 % (; 15 d)	-	-	-
Phenethyl Salicylate	93 % (O <sub>2</sub> ; OECD 301 F; 28 d)	-	-	-
Phenylacetaldehyde	69 % (O <sub>2</sub> ; OECD 301 D; 28 d; > 60)	-	-	-
Alpha-Damascone	56 % (O <sub>2</sub> ; OECD 301 F; 28 d)	-	-	-
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	14 % (; OECD 301 D; O <sub>2</sub> ; 28 d)	-	-	-
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3-yl]methyl]-	0 % (O <sub>2</sub> ; OECD 301 F; 38 d)	366	-	-

### 12.3. Bioaccumulative potential Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
Phenethyl Alcohol	1.36
Trimethylhexyl Acetate	4.6
Phenylisohexanol	2.7
Linalool	2.9
Citronellol	3.41
Citronellyl Acetate	4.9
Geraniol	2.6
Anisaldehyde	1.56
Cyclamen Aldehyde	3.4
Limonene	4.38
Eugenol	1.83
Isoamyl Allylglycolate	1.96
Cinnamal	2.1065
Phenethyl Salicylate	4.8
Phenylacetaldehyde	1.44
Alpha-Damascone	3.66
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	4.3
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3-yl]methyl]-	4.8

Chemical name	Octanol/water partition coefficient	Bioconcentration factor (BCF)
Phenethyl Alcohol	0.8 (OECD 117)	-
Phenylisohexanol	2.7 (OECD 117)	-
Linalool	2.9	-
Citronellol	3.41 (EU Method A.8)	82.59 L/kg
Citronellyl Acetate	4.9 (EU Method A.8)	-
Geraniol	2.6 (OECD 117)	-
Anisaldehyde	1.56 (OECD 107)	-
Cyclamen Aldehyde	3.4 (OECD 117)	155 L/kg
Limonene	4.38 (OECD 117)	864.8 L/kg
Eugenol	1.83 (OECD 117)	-
Isoamyl Allylglycolate	1.96	-
Cinnamal	2.107 (OECD 117)	8
Phenethyl Salicylate	4.6	-
Phenylacetaldehyde	1.44 (OECD 117)	-
Alpha-Damascone	3.66 (OECD 123; 25 °C)	> 8.4 - < 20 (OECD 305)
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	4.3	-



Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	4.5 (OECD 117)	-
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#### 12.4. Mobility in soil

##### Mobility in soil

Chemical name	log Koc
Phenethyl Alcohol	31.6
Phenylisohexanol	759 (759 (OECD 121))
Citronellol	70.79 (70.79)
Citronellyl Acetate	2409 (2409)
Geraniol	70.79 (70.79)
Anisaldehyde	10 (10)
Cyclamen Aldehyde	3.05 (3.05 (OECD 121))
Limonene	6324
Isoamyl Allylglycolate	80 (80 L/kg)
Cinnamal	90.78 (90.78 (OECD 121))
Phenylacetaldehyde	20.2 (20.2)
Alpha-Damascone	1397
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	3.19 (3.19 (EU Method C.19))
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	6310

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

Chemical name	PBT and vPvB assessment
Phenethyl Alcohol	The substance is not PBT / vPvB
Trimethylhexyl Acetate	The substance is not PBT / vPvB
Phenylisohexanol	The substance is not PBT / vPvB
Linalool	The substance is not PBT / vPvB
Citronellol	The substance is not PBT / vPvB
Citronellyl Acetate	The substance is not PBT / vPvB
Geraniol	The substance is not PBT / vPvB
Anisaldehyde	The substance is not PBT / vPvB
Cyclamen Aldehyde	The substance is not PBT / vPvB
Limonene	The substance is not PBT / vPvB
Eugenol	The substance is not PBT / vPvB
Isoamyl Allylglycolate	The substance is not PBT / vPvB
Cinnamal	The substance is not PBT / vPvB
Phenethyl Salicylate	The substance is not PBT / vPvB
Phenylacetaldehyde	The substance is not PBT / vPvB
Alpha-Damascone	The substance is not PBT / vPvB
6,6-Dimethylbicyclo[3.1.1]hept-2-ene-2-Propionaldehyde	The substance is not PBT / vPvB
Cyclopropanemethanol, 1-Methyl-2-[[1,2,2-trimethylbicyclohex-3yl]methyl]-	The substance is not PBT / vPvB

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

#### 12.7. Other adverse effects

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste from residues/unused products

The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible

recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 8. Dispose of in accordance with local regulations.

**Contaminated packaging**

Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV**

20 01 29\* - detergents containing dangerous substances  
 15 01 10\* - packaging containing residues of or contaminated by dangerous substances

**SECTION 14: Transport information**

**IATA**

**14.1 UN number or ID number** UN3082  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products)  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products), 9, III  
**14.5 Environmental hazards** Yes  
**14.6 Special precautions for user**  
**Special Provisions** A97, A158, A197  
**Note:** The shipper is responsible for identifying any exemptions, including Limited Quantity, that may apply based on package size.

**IMDG**

**14.1 UN number or ID number** UN3082  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products)  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products), 9, III, Marine pollutant  
**14.5 Environmental hazards** Yes  
**14.6 Special precautions for user**  
**Special Provisions** 274, 335, 969  
**EmS-No.** F-A, S-F  
**14.7 Maritime transport in bulk according to IMO instruments** No information available  
**Note:** The shipper is responsible for identifying any exemptions, including Limited Quantity, that may apply based on package size.

**RID**

**14.1 UN number or ID number** UN3082  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products)  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products), 9, III  
**14.5 Environmental hazards** Yes  
**14.6 Special precautions for user**  
**Special Provisions** 274, 335, 375, 601  
**Classification code** M6

**ADR**

**14.1 UN number or ID number** UN3082  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products)  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products), 9, III  
**14.5 Environmental hazards** Yes  
**14.6 Special precautions for user**

Special Provisions 274, 335, 601, 375  
 Classification code M6  
 Tunnel restriction code (-)

**ADN**

14.1 UN number or ID number UN3082  
 14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products)  
 Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Perfumery Products), 9, III  
 14.3 Transport hazard class(es) 9  
 14.4 Packing group III  
 14.5 Marine pollutant Not regulated  
 Classification code M6  
 Hazard label(s) 9  
 Limited quantity (LQ) 5 L  
 Equipment Requirements PP

**SECTION 15: Regulatory information**

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

**National regulations**

**France**

**Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number	Title
Limonene	RG 84	-

**Germany**

**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Linalool	75.	-
Geraniol	75.	-
Limonene	75.	-

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**EU - Plant Protection Products (1107/2009/EC)**

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Geraniol	Plant protection agent
Limonene	Plant protection agent

Eugenol	Plant protection agent
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**Biocidal Products Regulation (EU) No 528/2012 (BPR)**

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Cinnamal	Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No chemical safety assessment has been carried out for this mixture per REACH regulation.

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

- H226 - Flammable liquid and vapor
- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H312 - Harmful in contact with skin
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H330 - Fatal if inhaled
- H361 - Suspected of damaging fertility or the unborn child
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Skin sensitization	Calculation method
Chronic aquatic toxicity	Calculation method

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**Further information** Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**