

# SAFETY DATA SHEET



According to Regulation (EC) No. 1907/2006 (REACH) and its latest amendment

Issuing Date: 11-Jul-2019

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Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product Form	Mixture
Product Name	Febreze Blossom & Breeze
Product Identifier	91271929_RET_CLP_EUR_SAW
Synonyms	PA00209566
Product group	Trade Product

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

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

Product category	Energized & Continuous
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### 1.3 Details of the supplier of the safety data sheet

Details of the supplier of the safety data sheet	Procter & Gamble UK Brooklands, Weybridge, Surrey, KT13 0XP, UK Tel: 01932 896000 Fax: 01932 896200
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
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## Section 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Adverse human health effects and symptoms

No information available

### 2.2 Label elements

Label according to Regulation (EC) No. 1272/2008



Signal Word

WARNING

**Hazard statements**

H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H412 - Harmful to aquatic life with long lasting effects  
 H317 - May cause an allergic skin reaction

**Precautionary Statements**

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

**2.3 Other hazards**

**Other hazards which do not result in classification** No presence of PBT and vPvB ingredients.

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable.

**3.2 Mixtures**

Chemical Name	CAS No	EC-No	REACH Registration No	Weight-%	GHS / CLP Classification 1272/2008 [CLP]	M-Factor (chronic)	M-Factor (acute)
Linalool	78-70-6	201-134-4	01-2119474016-42	5 - 10	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319)	1	1
Benzyl Acetate	140-11-4	205-399-7	01-2119638272-42	5 - 10	Aquatic Chronic 3(H412)	1	1
2-t-Butylcyclohexyl Acetate	88-41-5	201-828-7	01-2119970713-33	5 - 10	Aquatic Chronic 2(H411)	1	1
2,6-Dimethyl-7-Octen-2-ol	18479-58-8	242-362-4	01-2119457274-37	1 - 5	Skin Irrit. 2(H315) Eye Irrit. 2(H319)	1	1
Phenethyl Alcohol	60-12-8	200-456-2	01-2119963921-31	1 - 5	Acute Tox. 4 (Oral)(H302) Eye Irrit. 2(H319)	1	1
Trimethylhexyl Acetate	58430-94-7	261-245-9		1 - 5	Skin Irrit. 2(H315) Aquatic Chronic 2(H411)	1	1
Tetrahydrolinalool	78-69-3	201-133-9	01-2119454788-21	1 - 5	Skin Irrit. 2(H315) Eye Irrit. 2(H319) Skin Sens. 1B(H317)	1	1
Terpineol	98-55-5	202-680-6		1 - 5	Skin Irrit. 2(H315) Eye Irrit. 2(H319)	1	1
Geranyl Acetate	105-87-3	203-341-5	01-2119973480-35	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Chronic 3(H412)	1	1
Cyclamen Aldehyde	103-95-7	203-161-7	01-2119970582-32	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Chronic 3(H412)	1	1
Methyl Decenol	81782-77-6	279-815-0	01-2119983528-21	<1	Aquatic Acute 1(H400) Aquatic Chronic 2(H411)	1	1
Dimethyl-3-Cyclohexene-1-Carbaldehyde	27939-60-2	248-742-6		<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Chronic 2(H411)	1	1
p-Menthan-7-ol	13828-37-0	237-539-8		<1	Skin Sens. 1B(H317)	1	1

Allyl Heptanoate	142-19-8	205-527-1	01-2119488961-23	<1	Acute Tox. 3 (Oral)(H301) Acute Tox. 3 (Dermal)(H311) Aquatic Acute 1(H400) Aquatic Chronic 3(H412)	1	1
Dimethyl Heptenal	106-72-9	203-427-2		<1	Skin Sens. 1B(H317)	1	1
Nerol	106-25-2	203-378-7	01-2119983244-33	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Dam. 1(H318)	1	1
Dihydro Pentamethylindanone	33704-61-9	251-649-3		<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319) Aquatic Chronic 2(H411)	1	1
Delta-Damascone	57378-68-4	260-709-8	01-2119535122-53	<1	Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Skin Sens. 1A(H317) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)	1	1
Methyl Octine Carbonate	111-80-8	203-909-2		<1	Acute Tox. 4 (Oral)(H302) Skin Irrit. 2(H315) Skin Sens. 1A(H317) Aquatic Acute 1(H400) Aquatic Chronic 3(H412)	1	1

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4: FIRST AID MEASURES

### 4.1 Description of first-aid measures

<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. Discontinue use of product.
<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/physician.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

<b>Symptoms/injuries after inhalation</b>	Coughing. Sneezing. Headache. Drowsiness. Dizziness. Shortness of breath.
<b>Symptoms/injuries after skin contact</b>	Redness. Swelling. Dryness. Itching.
<b>Symptoms/injuries after eye contact</b>	Severe pain. Redness. Swelling. Blurred vision.
<b>Symptoms/injuries after ingestion</b>	Oral mucosal or gastro-intestinal irritation. Nausea. Vomiting. Excessive secretion. Diarrhea.

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

Refer to section 4.1.

## Section 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media** Dry chemical powder. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).

**Extinguishing Media Which Must Not Be Used For Safety Reasons** Solid water jet ineffective as extinguishing medium.

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

<b>Fire Hazard</b>	No fire hazard. Non-combustible.
<b>Explosion hazard</b>	Product is not explosive.
<b>Reactivity</b>	No dangerous reaction known under conditions of normal use.

**5.3 Advice for firefighters**

**Special protective equipment for fire-fighters** No specific firefighting instructions required.

**Protective equipment and precautions for firefighters** In case of inadequate ventilation wear respiratory protection.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Wear suitable gloves and eye/face protection.

**Advice for emergency responders** Wear suitable gloves and eye/face protection.

**6.2 Environmental precautions**

**Environmental precautions** Prevent soil and water pollution. Prevent spreading in sewers.

**6.3 Methods and materials for containment and cleaning up**

**Methods for containment** Scoop absorbed substance into closing containers.

**Methods for cleaning up** Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Large Spills: 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.

**Other information** Not applicable.

**6.4 Reference to other sections**

**Other information** Refer to Sections 8 and 13.

**Section 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

**Advice on safe handling** Avoid contact with eyes. Avoid contact with skin. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. People suffering from perfume sensitivity should be cautious when using this product. Ventilate the room after use.

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

**Technical measures/Storage conditions** Store in original container. Refer to section 10.

**Incompatible products** Refer to section 10.

**Incompatible materials** Refer to section 10.

**Prohibitions on mixed storage** Not applicable.

**Requirements for storage rooms and containers** Store in a cool area. Store in a dry area.

**7.3 Specific end uses**

Refer to section 1.2.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****National Occupational Exposure****Limits**

Chemical Name	CAS No	Norway	Ireland	United Kingdom	European Union
Benzyl Acetate	140-11-4		TWA: 10 ppm STEL: 30 ppm		

**Derived No Effect Level (DNEL)****Workers**

Chemical Name	CAS No	Worker - dermal, short-term - systemic	Worker - inhalative, short-term - systemic	Worker - dermal, short-term - local
Linalool	78-70-6	5 mg/kg bw/d	16.5 mg/m <sup>3</sup>	15 mg/cm <sup>2</sup>

Tetrahydrolinalool	78-69-3		2.760 mg/cm <sup>2</sup>
Delta-Damascone	57378-68-4		0.014 mg/cm <sup>2</sup>

Chemical Name	CAS No	Worker - inhalative, short-term - local	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic
Linalool	78-70-6		2.5 mg/kg bw/d	2.8 mg/m <sup>3</sup>
Phenethyl Alcohol	60-12-8		21.2 mg/kg bw/d	59.9 mg/m <sup>3</sup>
Tetrahydrolinalool	78-69-3		2.5 mg/kg bw/d	2.75 mg/m <sup>3</sup>
Geranyl Acetate	105-87-3		35.5 mg/kg bw/d	62.59 mg/m <sup>3</sup>
Cyclamen Aldehyde	103-95-7		1.67 mg/kg bw/d	5.83 mg/m <sup>3</sup>
Methyl Decenol	81782-77-6		0.5 mg/kg bw/d	0.88 mg/m <sup>3</sup>
Allyl Heptanoate	142-19-8		4.7 mg/kg bw/d	16 mg/m <sup>3</sup>
Nerol	106-25-2		0.76 mg/kg bw/d	5.4 mg/m <sup>3</sup>
Dihydro Pentamethylindanone	33704-61-9		0.42 mg/kg bw/d	1.47 mg/m <sup>3</sup>
Delta-Damascone	57378-68-4		0.4 mg/kg bw/d	1.5 mg/m <sup>3</sup>

Chemical Name	CAS No	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Linalool	78-70-6	15 mg/cm <sup>2</sup>	
Tetrahydrolinalool	78-69-3	2.760 mg/cm <sup>2</sup>	
Cyclamen Aldehyde	103-95-7	0.00743 mg/cm <sup>2</sup>	
Methyl Decenol	81782-77-6	0.05 mg/cm <sup>2</sup>	
Nerol	106-25-2	0.133 mg/cm <sup>2</sup>	
Dihydro Pentamethylindanone	33704-61-9	5.51 mg/cm <sup>2</sup>	

**Consumers**

Chemical Name	CAS No	Consumer - inhalative, short-term - local	Consumer - dermal, short-term - local	Consumer - oral, short-term - systemic
Linalool	78-70-6		15 mg/cm <sup>2</sup>	1.2 mg/kg bw/d
Tetrahydrolinalool	78-69-3		2.760 mg/cm <sup>2</sup>	
Delta-Damascone	57378-68-4		0.0086 mg/cm <sup>2</sup>	

Chemical Name	CAS No	Consumer - inhalative, short-term - systemic	Consumer - dermal, short-term - systemic	Consumer - oral, long-term - local
Linalool	78-70-6	4.1 mg/m <sup>3</sup>	2.5 mg/kg bw/d	

Chemical Name	CAS No	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - local	Consumer - dermal, long-term - local
Linalool	78-70-6	0.2 mg/kg bw/d		15 mg/cm <sup>2</sup>
Phenethyl Alcohol	60-12-8	5.1 mg/kg bw/d		
Tetrahydrolinalool	78-69-3	0.2 mg/kg bw/d		2.760 mg/cm <sup>2</sup>
Geranyl Acetate	105-87-3	8.9 mg/kg bw/d		
Cyclamen Aldehyde	103-95-7	0.83 mg/kg bw/d		0.00372 mg/cm <sup>2</sup>
Methyl Decenol	81782-77-6	0.06 mg/kg bw/d		0.02 mg/cm <sup>2</sup>
Allyl Heptanoate	142-19-8	2.3 mg/kg bw/d		
Nerol	106-25-2	0.38 mg/kg bw/d		
Dihydro Pentamethylindanone	33704-61-9	0.25 mg/kg bw/d		3.241 mg/cm <sup>2</sup>
Delta-Damascone	57378-68-4	0.25 mg/kg bw/d		

Chemical Name	CAS No	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
Linalool	78-70-6	0.7 mg/m <sup>3</sup>	1.25 mg/kg bw/d
Phenethyl Alcohol	60-12-8	17.7 mg/m <sup>3</sup>	12.7 mg/kg bw/d
Tetrahydrolinalool	78-69-3	0.68 mg/m <sup>3</sup>	1.25 mg/kg bw/d
Geranyl Acetate	105-87-3	15.4 mg/m <sup>3</sup>	17.75 mg/kg bw/d
Cyclamen Aldehyde	103-95-7	1.45 mg/m <sup>3</sup>	0.83 mg/kg bw/d
Methyl Decenol	81782-77-6	0.22 mg/m <sup>3</sup>	0.25 mg/kg bw/d
Allyl Heptanoate	142-19-8	4.1 mg/m <sup>3</sup>	2.3 mg/kg bw/d
Nerol	106-25-2	1.3 mg/m <sup>3</sup>	0.38 mg/kg bw/d
Dihydro Pentamethylindanone	33704-61-9	0.44 mg/m <sup>3</sup>	0.25 mg/kg bw/d
Delta-Damascone	57378-68-4	1.5 mg/m <sup>3</sup>	0.4 mg/kg bw/d

**Predicted No Effect Concentration (PNEC)**

Chemical Name	CAS No	Fresh Water	Marine water	Intermittent release
Linalool	78-70-6	0.2 mg/L	0.02 mg/L	2 mg/L
Phenethyl Alcohol	60-12-8	0.215 mg/L	0.0215 mg/L	2.15 mg/L
Tetrahydrolinalool	78-69-3	0.0089 mg/L	0.00089 mg/L	0.089 mg/L
Geranyl Acetate	105-87-3	0.00372 mg/L	0.000372 mg/L	0.0372 mg/L
Cyclamen Aldehyde	103-95-7	0.00109 mg/L	0.00011 mg/L	0.01092 mg/L
Methyl Decenol	81782-77-6	0.0004 mg/L	0.00004 mg/L	0.004 mg/L
Allyl Heptanoate	142-19-8	0.00012 mg/L	0.000012 mg/L	0.0012 mg/L
Nerol	106-25-2	0.00745 mg/L	0.000745 mg/L	0.0745 mg/L
Dihydro Pentamethylindanone	33704-61-9	0.004 mg/L	0.0004 mg/L	
Delta-Damascone	57378-68-4	0.007 mg/L	0.0007 mg/L	

Chemical Name	CAS No	Freshwater sediment	Marine sediment	Sewage treatment plant
Linalool	78-70-6	2.22 mg/kg sediment dw	0.222 mg/kg sediment dw	10 mg/L
Phenethyl Alcohol	60-12-8	1.454 mg/kg sediment dw	0.1454 mg/kg sediment dw	10 mg/L
Tetrahydrolinalool	78-69-3	0.0821 mg/kg sediment dw	0.00821 mg/kg sediment dw	450 mg/L
Geranyl Acetate	105-87-3	0.442 mg/kg sediment dw	0.0442 mg/kg sediment dw	8 mg/L
Cyclamen Aldehyde	103-95-7	0.126 mg/kg sediment dw	0.0126 mg/kg sediment dw	1 mg/L
Methyl Decenol	81782-77-6	0.04484 mg/kg sediment dw	0.004484 mg/kg sediment dw	10 mg/L
Allyl Heptanoate	142-19-8	0.012 mg/kg sediment dw	0.0012 mg/kg sediment dw	10 mg/L
Nerol	106-25-2	0.133 mg/kg sediment dw	0.0133 mg/kg sediment dw	12.9 mg/L
Dihydro Pentamethylindanone	33704-61-9	0.0991 mg/kg sediment dw	0.00991 mg/kg sediment dw	10 mg/L
Delta-Damascone	57378-68-4	0.906 mg/kg sediment dw	0.0906 mg/kg sediment dw	2.41 mg/L

Chemical Name	CAS No	Soil	air	Oral
Linalool	78-70-6	0.327 mg/kg soil dw		
Phenethyl Alcohol	60-12-8	0.164 mg/kg soil dw		
Tetrahydrolinalool	78-69-3	0.0112 mg/kg soil dw		
Geranyl Acetate	105-87-3	0.0859 mg/kg soil dw		
Cyclamen Aldehyde	103-95-7	0.0245 mg/kg soil dw		
Methyl Decenol	81782-77-6	0.00945 mg/kg soil dw		
Allyl Heptanoate	142-19-8	0.00233 mg/kg soil dw		
Nerol	106-25-2	0.0223 mg/kg soil dw		
Dihydro Pentamethylindanone	33704-61-9	0.0174 mg/kg soil dw		
Delta-Damascone	57378-68-4	0.177 mg/kg soil dw		

**8.2 Exposure controls**

**Appropriate engineering controls** No information available

**Personal protective equipment** Protective personal equipment only required in case of professional use or for large packs (not for household packs). For consumer use please follow recommendation as indicated on the label of the product.

**Hand Protection** Wear suitable gloves.

**Eye Protection** Wear eye/face protection.

**Skin and Body Protection** Wear suitable gloves.

**Respiratory Protection** Not applicable.

**Thermal hazards** Not applicable.

**Environmental exposure controls** Prevent that the undiluted product reaches surface waters.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Property	Value / Units	Test Method / Notes
Appearance	Liquid	
Physical state	Liquid	
Color	Clear	
Odor	pleasant (perfume)	
Odor threshold	No data available	Perceived odor at typical use conditions
pH	No data available	Non-aqueous solution
Melting point / freezing point	No data available	Not available. This property is not relevant for the safety and classification of this product
Boiling point / boiling range	> 200 °C	
Flash point	> 60 °C	
Relative Evaporation Rate (butylacetate=1)	No data available	Not available. This property is not relevant for the safety and classification of this product
Flammability (solid, gas)	Not applicable	Not applicable. This property is not relevant for liquid product forms
Upper/lower flammability or explosive limits	No data available	Not available. This property is not relevant for the safety and classification of this product
Vapor pressure	No data available	Not available. This property is not relevant for the safety and classification of this product
Relative density	0.93 – 0.99	
Solubility	Insoluble in water	
Partition Coefficient (n-octanol/water)	Not available	Not available. This property is not relevant for the safety and classification of this product
Autoignition temperature	No data available	Not available. This property is not relevant for the safety and classification of this product
Decomposition temperature	No data available	Not available. This property is not relevant for the safety and classification of this product
Viscosity	3 - 12 cP	
Explosive properties	No data available	Not applicable. This product is not classified as explosive as it does not contain any substances which possesses explosive properties CLP (Art 14 (2)).
Oxidizing properties	No data available	Not applicable. This product is not classified as oxidizing as it does not contain any substances which possesses oxidizing properties CLP (Art 14 (2) )

**9.2 Other information**

Other information No information available.

**Section 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No dangerous reactions known.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

See section 10.1 on reactivity for more information.

**10.4 Conditions to Avoid**

None under normal use conditions.

**10.5 Incompatible materials**

Not applicable.

**10.6 Hazardous Decomposition Products**

None under normal use conditions.

**Section 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Mixture**

<b>Acute toxicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Respiratory sensitization</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Not Classified. Based on the available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Not Classified. Based on the available data, the classification criteria are not met.

**Substances in the mixture**

Chemical Name	CAS No	Oral LD50	Dermal LD50	Inhalation LC50
Linalool	78-70-6	2790 mg/kg bodyweight (rat)	-	-
Phenethyl Alcohol	60-12-8	1610 mg/kg bodyweight (rat)	-	-
Tetrahydrolinalool	78-69-3	8270 mg/kg bw	> 5000 mg/kg bw	> 0.885 mg/L air
Cyclamen Aldehyde	103-95-7	3810 mg/kg bodyweight (rat)	-	-
Allyl Heptanoate	142-19-8	218 mg/kg (rat)	810 mg/kg (rabbit)	3 mg/l/4h (rat)
Nerol	106-25-2	4500 mg/kg bodyweight (rat)	-	-
Dihydro Pentamethylindanone	33704-61-9	//	//	//
Delta-Damascone	57378-68-4	1400 mg/kg (rat)	-	-
Methyl Octine Carbonate	111-80-8	1600 mg/kg (rat)	-	-

**Section 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

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

**Acute toxicity**

Chemical Name	CAS No	Fish	Algae/aquatic plants	Crustacea	Toxicity to microorganisms
Linalool	78-70-6	27.8 mg/L (OECD 203; Oncorhynchus mykiss; 96 h)	156.7 mg/L (DIN 38412 L 9; Desmodesmus subspicatus; 96 h)	59 mg/L (OECD 202; Daphnia magna; 48 h)	> 100 mg/L (OECD 209; 3 h)
Phenethyl Alcohol	60-12-8	> 215 mg/L (DIN 38412; Leuciscus idus; 96 h)	1300 mg/L (DIN 38412; Desmodesmus subspicatus; 72 h)	287.17 mg/L (EC 440/2008 C.2; Daphnia magna; 48 h)	> 100 mg/L (OECD 209; 3 h)
Tetrahydrolinalool	78-69-3	8.9 mg/L (OECD 203; Danio rerio; 96 h)	21.6 mg/L (DIN 38412, L9; Desmodesmus subspicatus; 72 h)	14.2 mg/L (OECD 202; Daphnia magna; 48 h)	1000 mg/L (DIN 38412-27; Pseudomonas putida; 0.5 h)
Geranyl Acetate	105-87-3	68.12 mg/L (DIN 38412; Leuciscus idus; 96 h)	3.72 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	14.1 mg/L (EC 440/2008 C.2; Daphnia magna; 48 h)	-
Cyclamen Aldehyde	103-95-7	1.092 mg/L (QSAR ECOSAR v1.11; 96 h)	3.8 mg/L (OECD 201; Pseudokirchneriella subcapitata; 96 h)	1.4 mg/L (OECD 202; Daphnia magna; 48 h)	100 mg/L (OECD 209; 3 h)
Methyl Decenol	81782-77-6	3 mg/L (OECD 203; Pimephales promelas; 96 h)	3.8 mg/L (OECD 201; Pseudokirchneriella subcapitata; 96 h)	0.4 mg/L (OECD 202; Daphnia magna; 48 h)	-
Allyl Heptanoate	142-19-8	0.117 mg/L (OECD	3 mg/L (OECD 201;	0.89 mg/L (OECD	-



		203; Danio rerio; 96 h)	Pseudokirchneriella subcapitata; 72 h)	202; Daphnia magna; 48 h)	
Nerol	106-25-2	20.3 mg/L (OECD 203; Danio rerio; 96 h)	9.54 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	32.4 mg/L (OECD 202; Daphnia magna; 48 h)	241 mg/L (OECD 209; 3 h)
Dihydro Pentamethylindanone	33704-61-9	2.12 mg/L (Oryzias latipes; 96 h)	10 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	1.5 mg/L (OECD 202; Daphnia magna; 48 h)	> 1000 mg/L (OECD 209; 3 h)

**Chronic Toxicity**

Chemical Name	CAS No	Toxicity to fish (NOEC or ECx)*	Toxicity to algae (NOEC or ECx)*	Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)*	Toxicity to Microorganisms (NOEC or ECx)*
Linalool	78-70-6		54.3 mg/L (DIN 38412 L 9; Desmodesmus subspicatus; 4 d)		> 100 mg/L (OECD 209; 0.125 d)
Phenethyl Alcohol	60-12-8		430 mg/L (DIN 38412; Desmodesmus subspicatus; 3 d)		100 mg/L (OECD 209; 0.125 d)
Tetrahydrolinalool	78-69-3		9.5 mg/L (DIN 38412, L9; Desmodesmus subspicatus; 3 d)		EC10: 450 mg/L (DIN 38412-27; Pseudomonas putida; 0.5 h)
Geranyl Acetate	105-87-3		0.585 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)		800 mg/L (ISO 8192; 0.5 h)
Cyclamen Aldehyde	103-95-7		0.7 mg/L (OECD 201; Pseudokirchneriella subcapitata; 4 d)		
Methyl Decenol	81782-77-6		1.3 mg/L (OECD 201; Pseudokirchneriella subcapitata; 4 d)		
Allyl Heptanoate	142-19-8		0.158 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)		
Nerol	106-25-2		3.48 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d)		
Dihydro Pentamethylindanone	33704-61-9		1.4 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)		

**12.2 Persistence and degradability****Persistence and degradability**

Chemical Name	CAS No	Persistence and degradability	Ready Biodegradation Test (OECD 301)
Linalool	78-70-6	Biodegradable.	64.2% O <sub>2</sub> ; OECD 301 D; 28 d
Phenethyl Alcohol	60-12-8	Biodegradable.	106.3%; OECD 301 B; > 60% (10-d)
Tetrahydrolinalool	78-69-3		60% O <sub>2</sub> ; OECD 301 F; 61% (10 d)
Geranyl Acetate	105-87-3		> 70% O <sub>2</sub> ; > 60% (10 d)
Cyclamen Aldehyde	103-95-7	Biodegradable.	65.5% CO <sub>2</sub> ; OECD 301 B; > 60% (10 d)
Methyl Decenol	81782-77-6	Biodegradable.	73% O <sub>2</sub> ; OECD 301 F; > 60% (10-d)
Allyl Heptanoate	142-19-8	Biodegradable.	81% O <sub>2</sub> ; OECD 301 F; > 60% (10-d)
Nerol	106-25-2		90% O <sub>2</sub> ; OECD 301 D; > 60% (10-d)
Dihydro Pentamethylindanone	33704-61-9		0% O <sub>2</sub> ; //OECD 301 C; 28 d

**12.3 Bioaccumulative potential**

**Bioaccumulative potential** No information available.

Chemical Name	CAS No	Bioaccumulative potential	Octanol/water partition coefficient
Linalool	78-70-6	Not expected to bioaccumulate due to the low log Kow (log Kow <	2.84

		4)	
Phenethyl Alcohol	60-12-8	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	1.3
Tetrahydrolinalool	78-69-3	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.3
Geranyl Acetate	105-87-3	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	4.04
Cyclamen Aldehyde	103-95-7	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.4
Methyl Decenol	81782-77-6	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.9
Allyl Heptanoate	142-19-8	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.97
Nerol	106-25-2	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	2.76
Dihydro Pentamethylindanone	33704-61-9	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	4.2

**12.4 Mobility in soil****Mobility** No information available.

Chemical Name	CAS No	log Koc
Phenethyl Alcohol	60-12-8	31.62 (OECD 121)
Tetrahydrolinalool	78-69-3	56.3 (QSAR PCKOCWIN v1.66)
Geranyl Acetate	105-87-3	1151 (QSAR KOCWIN v2.00)
Cyclamen Aldehyde	103-95-7	1122.02 (OECD 121)
Methyl Decenol	81782-77-6	1174.89 (OECD 121)
Allyl Heptanoate	142-19-8	968.3 (QSAR)
Nerol	106-25-2	94.15 (QSAR KOCWIN v2.00)
Dihydro Pentamethylindanone	33704-61-9	200

**12.5 Results of PBT and vPvB assessment****PBT and vPvB assessment** This mixture does not contain any substances that are assessed to be a PBT or a vPvB.**12.6 Other adverse effects****Other adverse effects** No information available.**Section 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Waste from Residues/Unused Products**

Dispose of in accordance with local regulations.

**Disposal Recommendations**

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. For handling waste, see measures described in section 7. Empty, uncleaned packaging need the same disposal considerations as filled packaging.

**EWC Waste Disposal No**

20 01 29\* - detergents containing dangerous substances

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

**13.2 Additional information****Section 14: TRANSPORT INFORMATION**

**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 Marine pollutant	Not regulated
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

**IATA**

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 Marine pollutant	Not regulated

**ADR**

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 Marine pollutant	Not regulated

**RID**

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 Marine pollutant	Not regulated

**ADN**

14.1 UN Number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packing Group	Not applicable
14.5 Marine pollutant	Not regulated

**Section 15: REGULATORY INFORMATION**

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

**EU Regulations**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended** Contains no REACH substances with Annex XVII restrictions.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended** Contains no substance on the REACH candidate list.

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation** Contains no REACH Annex XIV substances.

**Other regulations, restrictions and** Classification and procedure used to derive the classification for mixtures according to

**prohibition regulations** Regulation (EC) 1272/2008 [CLP]. Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006).

**National regulatory information**

**15.2 Chemical Safety Assessment**

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

**International Inventories**

**Section 16: OTHER INFORMATION**

**16.1 Indication of changes**

**Issuing Date:** 11-Jul-2019  
**Revision date** 11-Jul-2019  
**Revision Note** Not applicable

**16.2 Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ATE: Acute Toxicity Estimate  
DNEL: Derived No Effect Level  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods Code  
LC50: Lethal Concentration to 50% of a test population  
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)  
OEL: Occupational Exposure Limit  
PBT: Persistent, Bioaccumulative and Toxic substance  
PNEC(s): Predicted No Effect Concentration(s)  
REACH- Registration, Evaluation and Authorization of Chemicals  
vPvB: Very Persistent and Very Bioaccumulative

**16.3 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]**

**Skin corrosion/irritation**

Category 2 - Calculation method

**Serious eye damage/eye irritation**

Category 2 - Calculation method

**Skin sensitization**

Category 1 - Calculation method

**Chronic aquatic toxicity**

Category 3 - Calculation method

**16.4 Full text of H-Statements referred to under sections 2 and 3**

H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and its amendment Regulation (EU) 2015/830

**16.5 Training Advice**

Normal use of this product shall imply use in accordance with the instructions on the packaging.

#### **16.6 Further information**

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

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

**End of SDS**