

SAFETY DATA SHEET



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

Issuing Date: 13-Aug-2021

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Revision Number 1

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

1.1. Product identifier

Product Form	Mixture
Product Name	Febreze /Ambi Pur Cotton Fresh
Product Identifier	91961127_B_RET_CLP_EUR_SAW
Synonyms	C-91961127-002
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	Non-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 2 - (H411)

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

H411 - Toxic to aquatic life with long lasting effects
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction

Precautionary statements

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

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 number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor (long-term)	M-Factor
PPG-2 Methyl Ether	34590-94-8	252-104-2	01-2119450011-60	>30	NC		
2,6-Dimethyl-7-Octen-2-ol	18479-58-8	242-362-4	01-2119457274-37	10 - 20	Skin Irrit. 2(H315) Eye Irrit. 2(H319)		
Benzyl Acetate	140-11-4	205-399-7	01-2119638272-42	5 - 10	Aquatic Chronic 3(H412)		
Trimethylhexyl Acetate	58430-94-7	261-245-9		1 - 5	Skin Irrit. 2(H315) Aquatic Chronic 2(H411)		
Linalool	78-70-6	201-134-4	01-2119474016-42	1 - 5	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319)		
Isobutyl Methyl Tetrahydropyranol	63500-71-0	405-040-6	01-2119455547-30	1 - 5	Eye Irrit. 2(H319)		
Hydroxycitronellal	107-75-5	203-518-7	01-2119973482-31	1 - 5	Skin Sens. 1B(H317) Eye Irrit. 2(H319)		
2-t-Butylcyclohexyl Acetate	88-41-5	201-828-7	01-2119970713-33	1 - 5	Aquatic Chronic 2(H411)		
Terpineol	8000-41-7	232-268-1		1 - 5	Skin Irrit. 2(H315) Eye Irrit. 2(H319)		
Terpineol Acetate	8007-35-0	232-357-5		1 - 5	Aquatic Chronic 2(H411)		
Tricyclodecenyl Propionate	68912-13-0	272-805-7	01-2119969447-21	1 - 5	Aquatic Chronic 2(H411)		
Limonene	5989-27-5	227-813-5	01-2119529223-47	<1	Flam. Liq. 3(H226) Asp. Tox. 1(H304) Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)		
Citral	5392-40-5	226-394-6	01-2119462829-23	<1	Skin Irrit. 2(H315) Skin Sens. 1(H317) Eye Irrit. 2(H319)		

Geraniol	106-24-1	203-377-1	01-2119552430-49	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Dam. 1(H318)		
Tetrahydrolinalool	78-69-3	201-133-9	01-2119454788-21	<1	Skin Irrit. 2(H315) Eye Irrit. 2(H319) Skin Sens. 1B(H317)		
Citronellol	106-22-9	203-375-0	01-2119453995-23	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319)		
Cyclamen Aldehyde	103-95-7	203-161-7	01-2119970582-32	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Chronic 3(H412)		
2,4-Dimethyl-3-Cyclohexene Carboxaldehyde	68039-49-6	268-264-1	01-2119982384-28	<1	Skin Irrit. 2(H315) Skin Sens. 1(H317) Aquatic Chronic 2(H411)		
Alpha-Isomethyl Ionone	127-51-5	204-846-3		<1	Skin Sens. 1B(H317) Aquatic Chronic 2(H411)		
Dimethylcyclohexenyl 3-butenyl ketone	56973-85-4	260-486-7		<1	Skin Sens. 1B(H317) Aquatic Chronic 2(H411)		
Linalyl Acetate	115-95-7	204-116-4	01-2119454789-19	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317)		
3-(p-cumenyl)Propionaldehyde	7775-00-0	231-885-3		<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Acute 1(H400)		1
Isoeugenol	97-54-1	202-590-7		<1	Acute Tox. 4 (Oral)(H302) Acute Tox. 4 (Dermal)(H312) Skin Irrit. 2(H315) Skin Sens. 1A(H317) Eye Irrit. 2(H319) Acute Tox. 4 (Inhalation:dust,mist)(H332) STOT SE 3(H335)		
Ethyl 2,2-Dimethylhydrocinnamal	67634-15-5	266-819-2		<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Aquatic Acute 1(H400) Aquatic Chronic 2(H411)		1
Nerol	106-25-2	203-378-7	01-2119983244-33	<1	Skin Irrit. 2(H315) Skin Sens. 1B(H317) Eye Irrit. 2(H319)		
1-(3-Methyl-2-benzofuranyl)- ethanone	23911-56-0	429-100-6	01-0000017540-77	<1	Acute Tox. 4 (Oral)(H302) Aquatic Acute 1(H400) Aquatic Chronic 1(H410)	10	10
Undecenal	1337-83-3	215-656-5		<1	Skin Sens. 1B(H317) Aquatic Acute 1(H400) Aquatic Chronic 2(H411)		10

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

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact	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.
Eye contact	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.
Ingestion	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

Symptoms/injuries after inhalation	Coughing. Sneezing. Headache. Drowsiness. Dizziness. Shortness of breath.
Symptoms/injuries after skin	Redness. Swelling. Dryness. Itching.

contact

Symptoms/injuries after eye contact Severe pain. Redness. Swelling. Blurred vision.

Symptoms/injuries after ingestion 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 (CO₂).

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

Fire Hazard No fire hazard Non-combustible

Explosion hazard Product is not explosive.

Reactivity 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 material 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 relevant.

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
Requirements for storage rooms
and containers**

Not relevant.
Store in a cool area. Store in a dry area.

7.3. Specific end use(s)

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
PPG-2 Methyl Ether	34590-94-8	TWA: 50 ppm TWA: 300 mg/m ³ STEL: 75 ppm STEL: 375 mg/m ³ H*	TWA: 50 ppm TWA: 308 mg/m ³ STEL: 150 ppm STEL: 924 mg/m ³ Sk*	TWA: 50 ppm TWA: 308 mg/m ³ STEL: 150 ppm STEL: 924 mg/m ³ Sk*	TWA: 50 ppm TWA: 308 mg/m ³ *
Benzyl Acetate	140-11-4		TWA: 10 ppm STEL: 30 ppm		
Limonene	5989-27-5	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³			
Citral	5392-40-5		TWA: 5 ppm STEL: 15 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 ³	15 mg/cm ²
Hydroxycitronellal	107-75-5			0.5 mg/cm ²
Limonene	5989-27-5			0.222 mg/cm ²
Tetrahydrolinalool	78-69-3			2.760 mg/cm ²
Citronellol	106-22-9			2.950 mg/cm ²
Linalyl Acetate	115-95-7			8 mg/cm ²

Chemical Name	CAS No	Worker - inhalative, short-term - local	Worker - dermal, long-term - systemic	Worker - inhalative, long-term - systemic
PPG-2 Methyl Ether	34590-94-8		283 mg/kg bw/d	308 mg/m ³
Linalool	78-70-6		2.5 mg/kg bw/d	2.8 mg/m ³
Hydroxycitronellal	107-75-5		1.9 mg/kg bw/d	18 mg/m ³
Terpineol	8000-41-7		1.17 mg/kg bw/d	5.8 mg/m ³
Limonene	5989-27-5			33.3 mg/m ³
Citral	5392-40-5		1.7 mg/kg bw/d	9 mg/m ³
Geraniol	106-24-1		12.5 mg/kg bw/d	161.6 mg/m ³
Tetrahydrolinalool	78-69-3		2.5 mg/kg bw/d	2.75 mg/m ³
Citronellol	106-22-9	10 mg/m ³	327.4 mg/kg bw/d	161.6 mg/m ³
Cyclamen Aldehyde	103-95-7		1.67 mg/kg bw/d	5.83 mg/m ³
Linalyl Acetate	115-95-7		2.5 mg/kg bw/d	2.75 mg/m ³
Nerol	106-25-2		0.76 mg/kg bw/d	5.4 mg/m ³

Chemical Name	CAS No	Worker - dermal, long-term - local	Worker - inhalative, long-term - local
Linalool	78-70-6	15 mg/cm ²	
Citral	5392-40-5	0.14 mg/cm ²	
Geraniol	106-24-1	11.8 mg/cm ²	
Tetrahydrolinalool	78-69-3	2.760 mg/cm ²	
Citronellol	106-22-9		10 mg/m ³
Cyclamen Aldehyde	103-95-7	0.00743 mg/cm ²	
Linalyl Acetate	115-95-7	8 mg/cm ²	

Nerol	106-25-2	0.133 mg/cm ²	
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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 ²	1.2 mg/kg bw/d
Hydroxycitronellal	107-75-5		0.5 mg/cm ²	
Limonene	5989-27-5		0.111 mg/cm ²	
Tetrahydrolinalool	78-69-3		2.760 mg/cm ²	
Citronellol	106-22-9	10 mg/m ³	2.950 mg/cm ²	
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 ³	2.5 mg/kg bw/d	
Linalyl Acetate	115-95-7		8 mg/cm ²	

Chemical Name	CAS No	Consumer - oral, long-term - systemic	Consumer - inhalative, long-term - local	Consumer - dermal, long-term - local
PPG-2 Methyl Ether	34590-94-8	36 mg/kg bw/d		
Linalool	78-70-6	0.2 mg/kg bw/d		15 mg/cm ²
Hydroxycitronellal	107-75-5	0.6 mg/kg bw/d		
Terpineol	8000-41-7	0.42 mg/kg bw/d		
Limonene	5989-27-5	4.76 mg/kg bw/d		
Citral	5392-40-5	0.6 mg/kg bw/d		0.14 mg/cm ²
Geraniol	106-24-1	13.75 mg/kg bw/d		11.8 mg/cm ²
Tetrahydrolinalool	78-69-3	0.2 mg/kg bw/d		2.760 mg/cm ²
Citronellol	106-22-9	13.8 mg/kg bw/d	10 mg/m ³	
Cyclamen Aldehyde	103-95-7	0.83 mg/kg bw/d		0.00372 mg/cm ²
Linalyl Acetate	115-95-7	0.2 mg/kg bw/d		8 mg/cm ²
Nerol	106-25-2	0.38 mg/kg bw/d		

Chemical Name	CAS No	Consumer - inhalative, long-term - systemic	Consumer - dermal, long-term - systemic
PPG-2 Methyl Ether	34590-94-8	37.2 mg/m ³	121 mg/kg bw/d
Linalool	78-70-6	0.7 mg/m ³	1.25 mg/kg bw/d
Hydroxycitronellal	107-75-5	5.4 mg/m ³	1.1 mg/kg bw/d
Terpineol	8000-41-7	1.25 mg/m ³	0.42 mg/kg bw/d
Limonene	5989-27-5	8.33 mg/m ³	
Citral	5392-40-5	2.7 mg/m ³	1 mg/kg bw/d
Geraniol	106-24-1	47.8 mg/m ³	7.5 mg/kg bw/d
Tetrahydrolinalool	78-69-3	0.68 mg/m ³	1.25 mg/kg bw/d
Citronellol	106-22-9	47.8 mg/m ³	196.4 mg/kg bw/d
Cyclamen Aldehyde	103-95-7	1.45 mg/m ³	0.83 mg/kg bw/d
Linalyl Acetate	115-95-7	0.68 mg/m ³	1.25 mg/kg bw/d
Nerol	106-25-2	1.3 mg/m ³	0.38 mg/kg bw/d

Predicted No Effect Concentration (PNEC)

Chemical Name	CAS No	Fresh Water	Marine water	Intermittent release
PPG-2 Methyl Ether	34590-94-8	19 mg/L	1.9 mg/L	190 mg/L
Linalool	78-70-6	0.2 mg/L	0.02 mg/L	2 mg/L
Hydroxycitronellal	107-75-5	0.0316 mg/L	0.00316 mg/L	0.316 mg/L
Terpineol	8000-41-7	0.062 mg/L	0.0062 mg/L	
Tricyclodeceny Propionate	68912-13-0	0.02 mg/L	0.002 mg/L	0.025 mg/L
Limonene	5989-27-5	0.0054 mg/L	0.00054 mg/L	
Citral	5392-40-5	0.00678 mg/L	0.000678 mg/L	0.0678 mg/L
Geraniol	106-24-1	0.0108 mg/L	0.00108 mg/L	0.108 mg/L
Tetrahydrolinalool	78-69-3	0.0089 mg/L	0.00089 mg/L	0.089 mg/L
Citronellol	106-22-9	0.0024 mg/L	0.00024 mg/L	0.024 mg/L
Cyclamen Aldehyde	103-95-7	0.00109 mg/L	0.00011 mg/L	0.01092 mg/L
Linalyl Acetate	115-95-7	0.011 mg/L	0.0011 mg/L	0.11 mg/L
Nerol	106-25-2	0.00745 mg/L	0.000745 mg/L	0.0745 mg/L

Chemical Name	CAS No	Freshwater sediment	Marine sediment	Sewage treatment plant
PPG-2 Methyl Ether	34590-94-8	70.2 mg/kg sediment dw	7.02 mg/kg sediment dw	4168 mg/L
Linalool	78-70-6	2.22 mg/kg sediment dw	0.222 mg/kg sediment dw	10 mg/L
Hydroxycitronellal	107-75-5	0.145 mg/kg sediment dw	0.0145 mg/kg sediment dw	10 mg/L
Terpineol	8000-41-7	0.442 mg/kg sediment dw	0.044 mg/kg sediment dw	2.57 mg/L
Tricyclodecanyl Propionate	68912-13-0	2.67 mg/kg sediment dw	0.267 mg/kg sediment dw	5.3 mg/L
Limonene	5989-27-5	1.32 mg/kg sediment dw	0.13 mg/kg sediment dw	1.8 mg/L
Citral	5392-40-5	0.125 mg/kg sediment dw	0.0125 mg/kg sediment dw	1.6 mg/L
Geraniol	106-24-1	0.115 mg/kg sediment dw	0.0115 mg/kg sediment dw	0.7 mg/L
Tetrahydrolinalool	78-69-3	0.0821 mg/kg sediment dw	0.00821 mg/kg sediment dw	450 mg/L
Citronellol	106-22-9	0.0256 mg/kg sediment dw	0.00256 mg/kg sediment dw	580 mg/L
Cyclamen Aldehyde	103-95-7	0.126 mg/kg sediment dw	0.0126 mg/kg sediment dw	1 mg/L
Linalyl Acetate	115-95-7	0.609 mg/kg sediment dw	0.0609 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

Chemical Name	CAS No	Soil	air	Oral
PPG-2 Methyl Ether	34590-94-8	2.74 mg/kg soil dw		
Linalool	78-70-6	0.327 mg/kg soil dw		
Hydroxycitronellal	107-75-5	0.0105 mg/kg soil dw		
Terpineol	8000-41-7	0.052 mg/kg soil dw		
Tricyclodecanyl Propionate	68912-13-0	0.521 mg/kg soil dw		
Limonene	5989-27-5	0.262 mg/kg soil dw		
Citral	5392-40-5	0.0209 mg/kg soil dw		
Geraniol	106-24-1	0.0167 mg/kg soil dw		
Tetrahydrolinalool	78-69-3	0.0112 mg/kg soil dw		
Citronellol	106-22-9	0.00371 mg/kg soil dw		
Cyclamen Aldehyde	103-95-7	0.0245 mg/kg soil dw		
Linalyl Acetate	115-95-7	0.115 mg/kg soil dw		
Nerol	106-25-2	0.0223 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 relevant.**Thermal hazards** Not relevant.**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 information 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
Initial boiling point and boiling range	> 150 °C	
Flash point	> 60 °C	Closed cup
Relative Evaporation Rate (butylacetate=1)	0.01 - 0.09	
Flammability	Not relevant	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	0.91 - 0.99	
Solubility	Insoluble in water	
Partition coefficient	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	0 - 150 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 relevant.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Mixture

Acute toxicity	Not Classified. Based on the available data, the classification criteria are not met.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Skin sensitization	May cause an allergic skin reaction.
Respiratory sensitization	Not Classified. Based on the available data, the classification criteria are not met.
Germ cell mutagenicity	Not Classified. Based on the available data, the classification criteria are not met.
Carcinogenicity	Not Classified. Based on the available data, the classification criteria are not met.
Reproductive toxicity	Not Classified. Based on the available data, the classification criteria are not met.
STOT - single exposure	Not Classified. Based on the available data, the classification criteria are not met.
STOT - repeated exposure	Not Classified. Based on the available data, the classification criteria are not met.
Aspiration hazard	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)	-	-
Citral	5392-40-5	-	2500 mg/kg bodyweight (rat)	-
Geraniol	106-24-1	3600 mg/kg bodyweight (rat)	-	-
Tetrahydrolinalool	78-69-3	8270 mg/kg bw	> 5000 mg/kg bw	> 0.885 mg/L air
Citronellol	106-22-9	3450 mg/kg bodyweight (rat)	2650 mg/kg bodyweight (rabbit)	-
Cyclamen Aldehyde	103-95-7	3810 mg/kg bodyweight (rat)	-	-
Isoeugenol	97-54-1	1500 mg/kg (rat)	1900 mg/kg (rabbit)	-
Nerol	106-25-2	4500 mg/kg bodyweight (rat)	-	-

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

Chemical Name	CAS No	Fish	Algae/aquatic plants	Crustacea	Toxicity to microorganisms
PPG-2 Methyl Ether	34590-94-8	> 1000 mg/L (OECD 203; Poecilia reticulata; 96 h)	> 969 mg/L (OECD 201; Pseudokirchnerella subcapitata; 72 h)	1919 mg/L (OECD 202; Daphnia magna; 48 h)	-
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)
Hydroxycitronellal	107-75-5	31.6 mg/L (DIN 38412; Leuciscus idus; 96 h)	123.32 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	410 mg/L (EC 440/2008 C.2; Daphnia magna; 48 h)	950 mg/L (DIN 38412; Pseudomonas putida; 17 h)
Terpineol	8000-41-7	62 mg/L (OECD 203; Danio rerio; 96 h)	68 mg/L (OECD 201; Pseudokirchneriella subcapitata; 72 h)	73 mg/L (OECD 202; Daphnia magna; 48 h)	-
Tricyclodecyl Propionate	68912-13-0	6.7 mg/L (OECD 203; Pimephales promelas; 96 h)	2.5 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	> 14 mg/L (OECD 202; Daphnia magna; 48 h)	245 mg/L (ISO 8192; 0.5 h)
Limonene	5989-27-5	0.72 mg/L (OECD 203; Pimephales promelas; 96 h)	150 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	0.36 mg/L (OECD 202; Daphnia magna; 48 h)	209 mg/L (OECD 209; 3 h)
Citral	5392-40-5	6.78 mg/L (DIN 38412; Leuciscus idus; 96 h)	103.8 mg/L (DIN 38412 L9; Desmodesmus subspicatus; 72 h)	6.8 mg/L (EC 440/2008 C.2; Daphnia magna; 48 h)	160 mg/L (OECD 209; 0.5 h)
Geraniol	106-24-1	22 mg/L (OECD 203;	13.1 mg/L (OECD	10.8 mg/L (OECD	70 mg/L (OECD 209;

		Danio rerio; 96 h)	201; Desmodesmus subspicatus; 72 h)	202; Daphnia magna; 48 h)	0.5 h)
Tetrahydrolinalool	78-69-3	8.9 mg/L (OECD 203; Danio rerio; 96 h)	21.6 mg/L (DIN 38 412, 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)
Citronellol	106-22-9	14.66 mg/L (DIN 38 412, part L15; Leuciscus idus; 96 h)	2.4 mg/L (Scenedesmus subspicatus; 72 h)	17.48 mg/L (EC 440/2008 C.2; Daphnia magna; 48 h)	> 10000 mg/L (DIN 38412, Part 27; Pseudomonas putida; 0.5 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)
Linalyl Acetate	115-95-7	11 mg/L (OECD 203; Cyprinus carpio; 96 h)	62 mg/L (OECD 201; Desmodesmus subspicatus; 72 h)	15 mg/L (OECD 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)

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)*
PPG-2 Methyl Ether	34590-94-8		969 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d)		4168 mg/L (Pseudomonas putida; 0.75 d)
Linalool	78-70-6		54.3 mg/L (DIN 38412 L 9; Desmodesmus subspicatus; 4 d)		> 100 mg/L (OECD 209; 0.125 d)
Hydroxycitronellal	107-75-5		42.36 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)		> 1000 mg/L (OECD 209; 0.5 h)
Terpineol	8000-41-7		3.9 mg/L (OECD 201; Pseudokirchneriella subcapitata; 3 d)		
Tricyclodeceny Propionate	68912-13-0		1.8 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)	1 mg/L (OECD 211; Daphnia magna; 21 d)	53 mg/L (ISO 8192; 0.5 h)
Limonene	5989-27-5		50 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)		18 mg/L (OECD 209; 0.125 d)
Citral	5392-40-5		3 mg/L (DIN 38412 L9; Desmodesmus subspicatus; 3 d)		68 mg/L (OECD 209; 0.02083 d)
Geraniol	106-24-1				13 mg/L (OECD 209; 0.5 h)
Tetrahydrolinalool	78-69-3		9.5 mg/L (DIN 38 412, L9; Desmodesmus subspicatus; 3 d)		EC10: 450 mg/L (DIN 38412-27; Pseudomonas putida; 0.5 h)
Citronellol	106-22-9		1.1 mg/L (Scenedesmus subspicatus; 3 d)		580 mg/L (DIN 38412, Part 27; Pseudomonas putida; 0.02083 d)
Cyclamen Aldehyde	103-95-7		0.7 mg/L (OECD 201; Pseudokirchneriella subcapitata; 4 d)		
Linalyl Acetate	115-95-7		9.6 mg/L (OECD 201; Desmodesmus subspicatus; 3 d)		> 1000 mg/L (ISO 8192; 0.5 h)
Nerol	106-25-2		3.48 mg/L (OECD 201; Pseudokirchneriella		

			subcapitata; 3 d)		
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12.2. Persistence and degradability**Persistence and degradability**

Chemical Name	CAS No	Persistence and degradability	Ready Biodegradation Test (OECD 301)	Biodegradation Other Tests
PPG-2 Methyl Ether	34590-94-8		96% DOC; OECD 301 F; 75% (10 d)	
Linalool	78-70-6		64.2% O ₂ ; OECD 301 D; 28 d	
Hydroxycitronellal	107-75-5		80% O ₂ ; OECD 301 F; 21 d; > 60% (10 d)	
Terpineol	8000-41-7		80%; OECD 310; > 60% (10-d)	
Tricyclodecyl Propionate	68912-13-0		15% O ₂ ; OECD 301 F	
Limonene	5989-27-5		80% O ₂ ; OECD 301 D	
Citral	5392-40-5		85% O ₂ ; //OECD 301 C	
Geraniol	106-24-1		90% DOC; OECD 301 A; 91% (3 d)	
Tetrahydrolinalool	78-69-3		60% O ₂ ; OECD 301 F; 61% (10 d)	
Citronellol	106-22-9		80% O ₂ ; OECD 301 F	
Cyclamen Aldehyde	103-95-7		65.5% CO ₂ ; OECD 301 B; > 60% (10 d)	
Linalyl Acetate	115-95-7		70% O ₂ ; OECD 301 F; 69% (10 d)	
Nerol	106-25-2		90% O ₂ ; OECD 301 D; > 60% (10-d)	

12.3. Bioaccumulative potential**Bioaccumulative potential**

No information available.

Chemical Name	CAS No	Bioaccumulative potential	Octanol/water partition coefficient
PPG-2 Methyl Ether	34590-94-8	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	0.004
Linalool	78-70-6	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	2.84
Hydroxycitronellal	107-75-5	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	1.68
Terpineol	8000-41-7		2.6
Tricyclodecyl Propionate	68912-13-0	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	4.4
Limonene	5989-27-5	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	4.38
Citral	5392-40-5	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	2.76
Geraniol	106-24-1	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	2.6
Tetrahydrolinalool	78-69-3	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.3
Citronellol	106-22-9	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.4
Cyclamen Aldehyde	103-95-7	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.4

Linalyl Acetate	115-95-7	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	3.9
Nerol	106-25-2	Not expected to bioaccumulate due to the low log Kow (log Kow < 4)	2.76

12.4. Mobility in soil

Mobility No information available.

Chemical Name	CAS No	log Koc
Hydroxycitronellal	107-75-5	10 (QSAR PCKOCWIN v2.00)
Terpineol	8000-41-7	> 28.8 (OECD 106)
Tricyclodecanyl Propionate	68912-13-0	1288.24955 (OECD 121)
Limonene	5989-27-5	6324 (QSAR KOCWIN v2.00)
Citral	5392-40-5	147.7 (QSAR PCKOCWIN v1.66)
Geraniol	106-24-1	70.79 (QSAR PCKOCWIN v1.66)
Tetrahydrolinalool	78-69-3	56.3 (QSAR PCKOCWIN v1.66)
Citronellol	106-22-9	70.79 (QSAR PCKOCWIN v1.66)
Cyclamen Aldehyde	103-95-7	1122.02 (OECD 121)
Linalyl Acetate	115-95-7	517.9 (QSAR PCKOCWIN v1.66)
Nerol	106-25-2	94.15 (QSAR KOCWIN v2.00)

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

Section 14: TRANSPORT INFORMATION**IMDG**

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylhexyl Acetate, Trimethylhexyl Acetate), 9, III, Marine pollutant
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	Yes
EmS-No	F-A, S-F
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available
IMDG Comment	Product is not regulated for transport by vessel in retail packaging per IMDG 2.10.2.7 The

shipper is responsible for identifying any exemptions, including Limited Quantity, that may apply based on package size

IATA

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylhexyl Acetate, Trimethylhexyl Acetate), 9, III
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	Yes
Comments	Product is not regulated for transport by air in retail packaging per IATA Special Provision A197 The shipper is responsible for identifying any exemptions, including Limited Quantity, that may apply based on package size

ADR

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylhexyl Acetate, Trimethylhexyl Acetate), 9, III
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	Yes
Classification code	M6
Labels	9
ADR Comment	Product is not regulated for transport in retail packaging < 5 L / 5 KG

RID

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylhexyl Acetate, Trimethylhexyl Acetate), 9, III
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	Yes
Classification code	M6
Labels	9

ADN

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trimethylhexyl Acetate, Trimethylhexyl Acetate), 9, III
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	Yes
Classification code	M6
Hazard label(s)	9
Limited quantity (LQ)	5 L
Equipment Requirements	PP
ADN Comment	Product is not regulated for transport in retail packaging < 5 L / 5 KG

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	Contains no REACH substances with Annex XVII restrictions.
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and use as amended

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 prohibition regulations 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) and its amendment Regulation (EU) 2015/830.

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.

Section 16: OTHER INFORMATION

16.1 Indication of changes

Issuing Date:	13-Aug-2021
Revision date	13-Aug-2021
Revision Note	Not relevant

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
EC50: Calculated concentration causing a 50% reduction in cellular reproduction
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)
OECD - Organization for Economic Cooperation and Development
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 2 - Calculation method

16.4 Full text of H-Statements referred to under sections 2 and 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
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory 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 Safety Data Sheet