

Safety Data Sheet

blomus

according to Regulation (EC) No 1907/2006

Soft Linen

Revision date: 24.05.2024

Product code: blomus-025

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

1.1. Product identifier

Soft Linen

UFI: 4RW6-1012-C00X-7570

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

Use of the substance/mixture

Air freshener

Uses advised against

The product is only to be used for the intended application.

1.3. Details of the supplier of the safety data sheet

Company name:	blomus GmbH	
Street:	Zur Hubertushalle 4	
Place:	D-59846 Sundern	
Telephone:	+49 2933 831 0	Telefax: +49 2933 831 201
E-mail (Contact person):	info@blomus.com	
Internet:	www.blomus.com	

1.4. Emergency telephone number:

Poison Control Center (Mayence, GER): +49 (0)6131 - 19240 (24h) This safety data sheet is an English translation of the EU safety data sheet and is not suitable for the distribution in a specific country.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

HEXYL CINNAMAL, TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES, LINALYL ACETATE, LINALOOL, D-LIMONENE, METHYLENEDIOXYPHENYL METHYLPROPANAL, GERANYL ACETATE, BETA-PINENES, PINENE, TRIMETHYL-PROPYLCYCLOHEXANEPROPANOL, TETRAMETHYL-4-METHYLENEHEPTAN-2-ONE, PENTAMETHYLHEPTENONE, L-ALPHA-PINENE, CITRAL, GERANIOL, TERPINOLENE, EUCALYPTOL, ISOEUGENOL

Signal word: Warning

Pictograms:



Hazard statements

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

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

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P102	Keep out of reach of children.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Do not discard content with household waste and forward for disposal according to regional/national guidelines.

2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII:
 Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (HEXAMETHYLINDANOPYRAN).

The mixture contains the following substances fulfilling the vPvB criteria according to REACH, annex XIII:
 Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (HEXAMETHYLINDANOPYRAN).

Endocrine disrupting properties: Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (HEXAMETHYLINDANOPYRAN).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Relevant ingredients

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol (ISOPROPYLIDENEGLYCEROL)	85 - < 90 %
	202-888-7	
	Eye Irrit. 2; H319	
18479-58-8	2,6-Dimethyloct-7-en-2-ol (2,6-DIMETHYL-7-OCTEN-2-OL)	2 - < 3 %
	242-362-4	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H336	
165184-98-5	(E)-2-benzylideneoctanal (HEXYL CINNAMAL)	<2,52 %
	639-566-4	
	Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H317 H400 H411	
	Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)	<1,875 %
	915-730-3	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H315 H317 H411	
115-95-7	linalyl acetate (LINALYL ACETATE)	0.5 - < 1 %
	204-116-4	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317	
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (LINALOOL)	0.5 - < 1 %
	201-134-4	603-235-00-2
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317	
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene (D-LIMONENE)	0.5 - < 1 %
	227-813-5	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412	
1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (HEXAMETHYLINDANOPYRAN)	<0,46 %
	214-946-9	603-212-00-7
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
1205-17-0	a-methyl-1,3-benzodioxole-5-propionaldehyde (METHYLENEDIOXYPHENYL METHYLPROPANAL)	<0,24 %
	214-881-6	
	Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361 H317 H411	
120-51-4	benzyl benzoate	0.1 - < 0.2 %
	204-402-9	607-085-00-9
	Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 2; H302 H400 H411	
99-83-2	p-mentha-1,5-diene (alpha-PHELLANDRENE)	0.1 - < 0.2 %
	202-792-5	
	Flam. Liq. 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H304 H400 H410	
105-87-3	geranyl acetate (GERANYL ACETATE)	0.1 - < 0.2 %
	203-341-5	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H317 H412	

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469-61-4	[3R-(3a,3aβ,7β,8aa)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (ALPHA-CEDRENE)	0.1 - < 0.2 %
	207-418-4	
	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H304 H400 H410	
18172-67-3	(-)-pin-2(10)-ene (BETA-PINENES)	0.1 - < 0.2 %
	242-060-2	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H304 H400 H410	
80-56-8	pin-2(3)-ene (PINENE)	0.1 - < 0.2 %
	201-291-9	
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H302 H315 H317 H304 H400 H410	
	Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol (TRIMETHYL-PROPYLCYCLOHEXANEPROPANOL)	0.1 - < 0.2 %
	947-716-8	
	Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410	
	Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one (TETRAMETHYL-4-METHYLENEHEPTAN-2-ONE; PENTAMETHYLHEPTENONE)	0.1 - < 0.2 %
	939-627-8	
	Skin Sens. 1, Aquatic Chronic 2; H317 H411	
99-85-4	p-Mentha-1,4-diene	0.1 - < 0.2 %
	202-794-6	
	Flam. Liq. 3, Repr. 2, Aquatic Chronic 2; H226 H361 H411	
123-35-3	7-methyl-3-methyleneocta-1,6-diene (MYRCENE)	0.1 - < 0.2 %
	204-622-5	
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 2; H226 H315 H319 H304 H400 H411	
7785-26-4	(1S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-2-ene (L-ALPHA-PINENE)	0.1 - < 0.2 %
	232-077-3	
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H302 H315 H317 H304 H400 H410	
5392-40-5	citral (CITRAL)	0.1 - < 0.2 %
	226-394-6	605-019-00-3
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol(GERANIOL)	0.1 - < 0.2 %
	203-377-1	603-241-00-5
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317	
586-62-9	p-mentha-1,4(8)-diene (TERPINOLENE)	0.1 - < 0.2 %
	209-578-0	
	Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H315 H317 H304 H400 H410	
470-82-6	cineole (EUCALYPTOL)	0.1 - < 0.2 %
	207-431-5	
	Flam. Liq. 3, Skin Sens. 1B; H226 H317	
546-28-1	[3R-(3a,3aβ,7β,8aa)]-octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene	< 0.1 %
	208-898-8	
	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H304 H400 H410	

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97-54-1	isoeugenol (ISOEUGENOL)		< 0.1 %
	202-590-7	604-094-00-X	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A, STOT SE 3; H332 H312 H302 H315 H319 H317 H335		

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
100-79-8	202-888-7	2,2-dimethyl-1,3-dioxolan-4-ylmethanol (ISOPROPYLIDENEGLYCEROL)	85 - < 90 %
		oral: LD50 = 7000 mg/kg	
120-51-4	204-402-9	benzyl benzoate	0.1 - < 0.2 %
		oral: ATE = 500 mg/kg Aquatic Acute 1; H400: M=1	
18172-67-3	242-060-2	(-)-pin-2(10)-ene (BETA-PINENES)	0.1 - < 0.2 %
		Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	
80-56-8	201-291-9	pin-2(3)-ene (PINENE)	0.1 - < 0.2 %
		oral: ATE = 500 mg/kg	
7785-26-4	232-077-3	(1S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-2-ene (L-ALPHA-PINENE)	0.1 - < 0.2 %
		oral: ATE = 500 mg/kg	
546-28-1	208-898-8	[3R-(3a,3aβ,7β,8aa)] -octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene	< 0.1 %
		Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
97-54-1	202-590-7	isoeugenol (ISOEUGENOL)	< 0.1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg Skin Sens. 1A; H317: >= 0,01 - 100	

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection!

After inhalation

If irritations or allergic reactions should occur as a consequence of handling the product (particularly if large quantities have been inhaled): Move victim to fresh air. Put victim at rest and keep warm. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

Remove contact lenses. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician in any case!

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

Irritations upon eye contact and irritations/allergic reactions upon contact with skin.

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

Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.
Water fog. alcohol resistant foam. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Irritating/poisonous gasses and vapours.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet.
Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up**For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

When in use in confined, warm rooms: Ensure adequate ventilation. Do not spray on naked flames or any incandescent material. Avoid contact with skin and eyes.
At the place of work (in production and when refilling): Wear personal protection equipment.
Do not empty into drains; dispose of this material and its container in a safe way.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Usual measures for fire prevention.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Further information on handling

When using do not eat, drink or smoke. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Keep only in the original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.
Keep away from: Oxidizing agents. Peroxides. acid. Acid chlorides, inorganic. Ammonia.

Further information on storage conditions

Protect from sunlight and heat sources. Avoid ignition sources.

7.3. Specific end use(s)

Air freshener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
5392-40-5	Citral (Inhalable Fraction and Vapour)	5	-		TWA (8 h)	
84-66-2	Diethyl phthalate	-	5		TWA (8 h)	
		-	10		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (LINALOOL)			
Worker DNEL, long-term		inhalation	systemic	2,8 mg/m ³
Worker DNEL, acute		inhalation	systemic	16,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	5 mg/kg bw/day
105-87-3	geranyl acetate (GERANYL ACETATE)			
Worker DNEL, long-term		inhalation	systemic	62,59 mg/m ³
Worker DNEL, long-term		dermal	systemic	35,5 mg/kg bw/day
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol(GERANIOL)			
Worker DNEL, long-term		inhalation	systemic	161,6 mg/m ³
Worker DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,0118 mg/cm ²

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PNEC values

CAS No	Substance	Value
Environmental compartment		
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (LINALOOL)	
Freshwater		0,2 mg/l
Marine water		0,02 mg/l
Freshwater sediment		2,22 mg/kg
Marine sediment		0,222 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,327 mg/kg
105-87-3	geranyl acetate (GERANYL ACETATE)	
Freshwater		0,00372 mg/l
Marine water		0,000372 mg/l
Freshwater sediment		0,442 mg/kg
Marine sediment		0,044 mg/kg
Micro-organisms in sewage treatment plants (STP)		8 mg/l
Soil		0,086 mg/kg
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol(GERANIOL)	
Freshwater		0,011 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,115 mg/kg
Marine sediment		0,011 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,7 mg/l
Soil		0,017 mg/kg

Additional advice on limit values

Currently there are no further exposure limits available.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Under normal usage conditions, not necessary.

At the place of work (in production and when refilling): Eye glasses with side protection

Hand protection

Within the recommended use no hand protection is required, as the product does not come into contact with skin.

At the place of work (in production and when refilling):

Protective gloves according to EN 374. Glove material: nitrile rubber / NBR (layer thickness \geq 0,5mm, penetration time: >8h)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Under normal usage conditions, not necessary.

At the place of work (in production and when refilling): Protective clothing.

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Respiratory protection

Under normal usage conditions, not necessary.

At the place of work (in production and when refilling):

exceeding exposure limit values: gas filtering equipment (EN 141).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	colourless	
Odour:	characteristic	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		not applicable
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Viscosity / kinematic:		No data available
Water solubility:		No data available
Solubility in other solvents		No data available
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density:		No data available
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties	
No data available	
Sustaining combustion:	No data available
Self-ignition temperature	
Gas:	No data available
Oxidizing properties	
No data available	

Other safety characteristics

Evaporation rate:	No data available
Solvent separation test:	No data available
Viscosity / dynamic:	No data available
Flow time:	No data available

Further Information

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under normal environmental conditions (room temperature).

10.3. Possibility of hazardous reactions

No dangerous reactions to be expected if used properly.

10.4. Conditions to avoid

Heat sources, open flames and other ignition sources.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Irritating/poisonous gasses and vapours.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
100-79-8	2,2-dimethyl-1,3-dioxolan-4-ylmethanol (ISOPROPYLIDENEGLYCEROL)				
	oral	LD50 mg/kg	7000	Rat	
120-51-4	benzyl benzoate				
	oral	ATE mg/kg	500		
80-56-8	pin-2(3)-ene (PINENE)				
	oral	ATE mg/kg	500		
7785-26-4	(1S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-2-ene (L-ALPHA-PINENE)				
	oral	ATE mg/kg	500		
97-54-1	isoeugenol (ISOEUGENOL)				
	oral	ATE mg/kg	500		
	dermal	ATE mg/kg	1100		
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		

Irritation and corrosivity

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

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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Sensitising effects

May cause an allergic skin reaction. ((E)-2-benzylideneoctanal (HEXYL CINNAMAL); Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); linalyl acetate (LINALYL ACETATE); linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (LINALOOL); (R)-p-mentha-1,8-diene; d-limonene (D-LIMONENE); a-methyl-1,3-benzodioxole-5-propionaldehyde (METHYLENEDIOXYPHENYL METHYLPROPANAL); geranyl acetate (GERANYL ACETATE); (-)-pin-2(10)-ene (BETA-PINENES); pin-2(3)-ene (PINENE); Reaction mass of 1-[(1R*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol and 1-[(1S*,6S*)-2,2,6-trimethylcyclohexyl]hexan-3-ol (TRIMETHYL-PROPYLCYCLOHEXANEPROPANOL); Reaction mass of (3R,5R)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (3R,5S)-3,5,6,6-tetramethyl-4-methylideneheptan-2-one and (E)-3,4,5,6,6-pentamethylhept-3-en-2-one (TETRAMETHYL-4-METHYLENEHEPTAN-2-ONE; PENTAMETHYLHEPTENONE); (1S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-2-ene (L-ALPHA-PINENE); citral (CITRAL); geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol(GERANIOL); p-mentha-1,4(8)-diene (TERPINOLENE); cineole (EUCALYPTOL); isoeugenol (ISOEUGENOL))

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties**

Endocrine disrupting properties: Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (HEXAMETHYLINDANOPYRAN).

SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
120-51-4	benzyl benzoate					
	Acute fish toxicity	LC50	<=1 mg/l	96 h	supplier statement	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (LINALOOL)	2,9
105-87-3	geranyl acetate (GERANYL ACETATE)	4,04
123-35-3	7-methyl-3-methyleneocta-1,6-diene (MYRCENE)	4,82
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol(GERANIOL)	2,6

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII:
Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (HEXAMETHYLINDANOPYRAN).

The mixture contains the following substances fulfilling the vPvB criteria according to REACH, annex XIII:
Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (HEXAMETHYLINDANOPYRAN).

12.6. Endocrine disrupting properties

Endocrine disrupting properties: Reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES); 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (HEXAMETHYLINDANOPYRAN).

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not dispose of residual product with household waste and do not empty into the sink or toilet.
Content/container must be handed in at a certified special waste collection point.
According to the European Waste Catalogue (EWC), allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.
Recommended cleaning agent: Water (with cleaning agent)

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

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14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautions known.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive

Not subject to 2012/18/EU (SEVESO III)

2012/18/EU (SEVESO III):

Additional information

Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Water hazard class (D):

2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,16.

Version 1,00 - 21.08.2019 - first creation

Version 1,01 - 16.03.2022 - Change and revision of the SDS because of new information / recipe

Version 1,02 -24.05.2024 - General update

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Abbreviations and acronyms

Flam. Liq: Flammable liquid
 Acute Tox: Acute toxicity
 Asp. Tox: Aspiration hazard
 Skin Irrit: Skin irritation
 Eye Dam: Eye damage
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 Repr: Reproductive toxicity
 STOT SE: Specific target organ toxicity - single exposure
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act
 CAS: Chemical Abstracts Service
 DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)
 EC: Effective Concentration
 EG: European Community (Europäische Gemeinschaft)
 EN: European Norm
 IATA: International Air Transport Association
 IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Code for Dangerous Goods
 ISO: Norm of the International Standards Organization
 CLP: Classification, Labeling, Packaging
 IUCLID: International Uniform Chemical Information Database
 LC: Lethal concentration
 LD: Lethal dose
 log Kow: Octanol/water partition coefficient
 MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
 OECD: Organisation for Economic Co-operation and Development
 PBT: Persistent, bio-cumulative, toxic
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds
 vPvB: very persistent and very bio-cumulative
 VwVwS: Administrative Regulation for Water Pollutants
 WGK: German Water Hazard Class
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 DNEL: Derived No Effect Level
 PNEC: Predicted No Effect Concentration
 TLV: Threshold Limiting Value
 STOT: Specific Target Organ Toxicity

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

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H226	Flammable liquid and vapour.
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.
H336	May cause drowsiness or dizziness.
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.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

assesio AG, Ottostraße 1, 63741, Aschaffenburg, Germany

Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@assesio.eu, www.assesio.eu

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)