

**Trade name:** Duftstoff Cotton Blossom

**Product no.:** 259999

**Current version :** 2.0.0, issued: 03.02.2022

**Replaced version:** 1.0.0, issued: 10.12.2021

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Duftstoff Cotton Blossom**

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

**Relevant identified uses of the substance or mixture**

Fragrances

**Uses advised against**

No data available.

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

**Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

Skin Irrit. 2; H315

Skin Sens. 1; H317

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS07



GHS09

**Signal word**

Warning

**Trade name:** Duftstoff Cotton Blossom**Product no.:** 259999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 10.12.2021**Region:** GB**Hazardous component(s) to be indicated on label:**

(2E)-2-(phenylmethylidene)octanal  
 Coumarin  
 7-hydroxycitronellal  
 geranyl acetate  
 Citronellol  
 geraniol  
 3-phenylprop-2-en-1-ol  
 2,6-Octadienal, 3,7-dimethyl-, acid-isomerized  
 nerol  
 neryl-acetate

**Hazard statement(s)**

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

**Precautionary statement(s)**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P391 Collect spillage.

**2.3 Other hazards**

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	
1	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			
	- 915-730-3 - 01-2119489989-04	Aquatic Chronic 1; H410 Skin Irrit. 2; H315 Skin Sens. 1B; H317	>= 5.00	< 10.00 wt%
2	benzyl-salicylate			
	118-58-1 204-262-9 - 01-2119969442-31	Aquatic Chronic 3; H412 Skin Sens. 1B; H317 Eye Irrit. 2; H319	>= 5.00	< 10.00 wt%

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

3	<b>2-methyl-4-phenylbutan-2-ol</b>			
	103-05-9 203-074-4 - 01-2120758978-28	Aquatic Chronic 3; H412 Eye Irrit. 2; H319	< 5.00	wt%
4	<b>linalyl acetate</b>			
	115-95-7 204-116-4 - 01-2119454789-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 5.00	wt%
5	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>			
	32388-55-9 251-020-3 - 01-2119969651-28	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1B; H317	< 5.00	wt%
6	<b>(2E)-2-(phenylmethylidene)octanal</b>			
	165184-98-5 639-566-4 - 01-2119533092-50	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1; H317	< 5.00	wt%
7	<b>benzyl acetate</b>			
	140-11-4 205-399-7 - 01-2119638272-42	Aquatic Chronic 3; H412	< 5.00	wt%
8	<b>2-phenylethanol</b>			
	60-12-8 200-456-2 - 01-2119963921-31	Acute Tox. 4; H302 Eye Irrit. 2; H319	< 5.00	wt%
9	<b>linalool</b>			
	78-70-6 201-134-4 603-235-00-2 01-2119474016-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 5.00	wt%
10	<b>Eugenol</b>			
	97-53-0 202-589-1 - 01-2119971802-33	Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 5.00	wt%
11	<b>Coumarin</b>			
	91-64-5 202-086-7 - 01-2119949300-45	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 3; H412	< 5.00	wt%
12	<b>(Z)-3-hexenyl salicylate</b>			
	65405-77-8 265-745-8 - 01-2119987320-37	Aquatic Acute 1; H400	< 2.50	wt%
13	<b>7-hydroxycitronellal</b>			
	107-75-5 203-518-7 - 01-2119973482-31	Eye Irrit. 2; H319 Skin Sens. 1; H317	< 2.50	wt%
14	<b>geranyl acetate</b>			
	105-87-3	Aquatic Chronic 3; H412	< 2.50	wt%

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

	203-341-5 - 01-2119973480-35	Skin Sens. 1; H317 Skin Irrit. 2; H315		
15	<b>Citronellol</b>			
	106-22-9 203-375-0 - 01-2119453995-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 2.50	wt%
16	<b>geraniol</b>			
	106-24-1 203-377-1 - 01-2119552430-49	Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 2.50	wt%
17	<b>3-phenylprop-2-en-1-ol</b>			
	104-54-1 203-212-3 - 01-2119934496-29	Skin Sens. 1; H317 Skin Irrit. 2; H315	< 0.50	wt%
18	<b>2,6-Octadienal, 3,7-dimethyl-, acid-isomerized</b>			
	90480-35-6 291-768-8 - 01-2120784883-37	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 2; H411	< 0.50	wt%
19	<b>nerol</b>			
	106-25-2 203-378-7 - 01-2119983244-33	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	< 0.50	wt%
20	<b>neryl-acetate</b>			
	141-12-8 205-459-2 - 01-2120748334-54	Skin Sens. 1B; H317	< 0.50	wt%
21	<b>allyl (cyclohexyloxy)acetate</b>			
	68901-15-5 272-657-3 - 01-2120770514-54	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
8	1609 mg/kg bodyweight		
21	621 mg/kg bodyweight		

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

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation.

**After skin contact**

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**Trade name:** Duftstoff Cotton Blossom**Product no.:** 259999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 10.12.2021**Region:** GB**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

**Unsuitable extinguishing media**

High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear full protective suit. Run-off water from fire fighting must not be discharged into drains or enter surface water.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

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

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

### Incompatible products

Substances to be avoided, see section 10.

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	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			- 915-730-3	
	dermal	Long term (chronic)	systemic	28.7	mg/kg/day
	dermal	Long term (chronic)	local	648	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	30	mg/m <sup>3</sup>
2	benzyl-salicylate			118-58-1 204-262-9	
	dermal	Long term (chronic)	systemic	0.9	mg/kg/day
	inhalative	Long term (chronic)	systemic	3.17	mg/m <sup>3</sup>
3	linalyl acetate			115-95-7 204-116-4	
	dermal	Long term (chronic)	systemic	2.5	mg/kg
	dermal	Long term (chronic)	local	236.2	µg/cm <sup>2</sup>
	dermal	Short term (acute)	local	236.2	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	2.75	mg/m <sup>3</sup>
4	[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one			32388-55-9 251-020-3	
	dermal	Long term (chronic)	systemic	0.333	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.17	mg/m <sup>3</sup>
5	(2E)-2-(phenylmethylidene)octanal			165184-98-5 639-566-4	
	dermal	Long term (chronic)	systemic	18.2	mg/kg/day
	dermal	Long term (chronic)	local	525	µg/cm <sup>2</sup>
	dermal	Short term (acute)	local	525	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.078	mg/m <sup>3</sup>
	inhalative	Short term (acute)	local	6.28	mg/m <sup>3</sup>
6	benzyl acetate			140-11-4 205-399-7	
	dermal	Long term (chronic)	systemic	2.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	9	mg/m <sup>3</sup>
7	2-phenylethanol			60-12-8 200-456-2	
	dermal	Long term (chronic)	systemic	21.2	mg/kg/day

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

	inhalative	Long term (chronic)	systemic	59.9	mg/m <sup>3</sup>
8	<b>linalool</b>			<b>78-70-6</b> <b>201-134-4</b>	
	dermal	Long term (chronic)	systemic	2.5	mg/kg/day
	dermal	Short term (acut)	systemic	5	mg/kg/day
	dermal	Long term (chronic)	local	15	mg/cm <sup>2</sup>
	dermal	Short term (acut)	local	15	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	2.8	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	16.5	mg/m <sup>3</sup>
9	<b>Eugenol</b>			<b>97-53-0</b> <b>202-589-1</b>	
	dermal	Long term (chronic)	systemic	6	mg/kg/day
	inhalative	Long term (chronic)	systemic	21.2	mg/m <sup>3</sup>
10	<b>Coumarin</b>			<b>91-64-5</b> <b>202-086-7</b>	
	dermal	Long term (chronic)	systemic	0.84	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.741	mg/m <sup>3</sup>
11	<b>(Z)-3-hexenyl salicylate</b>			<b>65405-77-8</b> <b>265-745-8</b>	
	dermal	Long term (chronic)	systemic	0.9	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.59	mg/m <sup>3</sup>
12	<b>7-hydroxycitronellal</b>			<b>107-75-5</b> <b>203-518-7</b>	
	dermal	Long term (chronic)	systemic	1.9	mg/kg/day
	inhalative	Long term (chronic)	systemic	18	mg/m <sup>3</sup>
13	<b>allyl (cyclohexyloxy)acetate</b>			<b>68901-15-5</b> <b>272-657-3</b>	
	dermal	Long term (chronic)	systemic	0.448	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	3.16	mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>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</b>			<b>-</b> <b>915-730-3</b>	
	oral	Long term (chronic)	systemic	3	mg/kg/day
	dermal	Long term (chronic)	systemic	17.2	mg/kg/day
	dermal	Long term (chronic)	local	380	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	9	mg/m <sup>3</sup>
2	<b>benzyl-salicylate</b>			<b>118-58-1</b> <b>204-262-9</b>	
	oral	Long term (chronic)	systemic	0.45	mg/kg/day
	dermal	Long term (chronic)	systemic	0.45	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.78	mg/m <sup>3</sup>
3	<b>linalyl acetate</b>			<b>115-95-7</b> <b>204-116-4</b>	
	oral	Long term (chronic)	systemic	0.2	mg/kg/day
	dermal	Long term (chronic)	systemic	1.25	mg/kg/day
	dermal	Long term (chronic)	local	236.2	µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	236.2	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.68	mg/m <sup>3</sup>
4	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>			<b>32388-55-9</b> <b>251-020-3</b>	
	oral	Long term (chronic)	systemic	0.167	mg/kg/day
	dermal	Long term (chronic)	systemic	0.167	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.29	mg/m <sup>3</sup>

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

5	<b>(2E)-2-(phenylmethylidene)octanal</b>			<b>165184-98-5</b> <b>639-566-4</b>	
	oral	Long term (chronic)	systemic	0.056	mg/kg/day
	dermal	Long term (chronic)	systemic	9.11	mg/kg/day
	dermal	Long term (chronic)	local	78.7	µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	78.7	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.019	
	inhalative	Short term (acut)	local	4.71	mg/m <sup>3</sup>
6	<b>benzyl acetate</b>			<b>140-11-4</b> <b>205-399-7</b>	
	oral	Long term (chronic)	systemic	1.3	mg/kg/day
	dermal	Long term (chronic)	systemic	1.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	2.2	mg/m <sup>3</sup>
7	<b>2-phenylethanol</b>			<b>60-12-8</b> <b>200-456-2</b>	
	oral	Long term (chronic)	systemic	5.1	mg/kg/day
	dermal	Long term (chronic)	systemic	12.7	mg/kg/day
	inhalative	Long term (chronic)	systemic	17.7	
8	<b>linalool</b>			<b>78-70-6</b> <b>201-134-4</b>	
	oral	Long term (chronic)	systemic	0.2	mg/kg/day
	oral	Short term (acut)	systemic	1.2	mg/kg/day
	dermal	Long term (chronic)	systemic	1.25	mg/kg/day
	dermal	Short term (acut)	systemic	2.5	mg/kg/day
	dermal	Long term (chronic)	local	15	mg/cm <sup>2</sup>
	dermal	Short term (acut)	local	15	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.7	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	4.1	mg/m <sup>3</sup>
9	<b>Eugenol</b>			<b>97-53-0</b> <b>202-589-1</b>	
	oral	Long term (chronic)	systemic	3	mg/kg/day
	dermal	Long term (chronic)	systemic	3	mg/kg/day
	inhalative	Long term (chronic)	systemic	5.22	mg/m <sup>3</sup>
10	<b>Coumarin</b>			<b>91-64-5</b> <b>202-086-7</b>	
	oral	Long term (chronic)	systemic	0.42	mg/kg/day
	dermal	Long term (chronic)	systemic	0.42	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.183	mg/m <sup>3</sup>
11	<b>(Z)-3-hexenyl salicylate</b>			<b>65405-77-8</b> <b>265-745-8</b>	
	oral	Long term (chronic)	systemic	0.23	mg/kg/day
	dermal	Long term (chronic)	systemic	0.45	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.39	mg/m <sup>3</sup>
12	<b>7-hydroxycitronellal</b>			<b>107-75-5</b> <b>203-518-7</b>	
	oral	Long term (chronic)	systemic	0.6	mg/kg/day
	dermal	Long term (chronic)	systemic	1.1	mg/kg/day
	inhalative	Long term (chronic)	systemic	5.4	mg/m <sup>3</sup>
13	<b>allyl (cyclohexyloxy)acetate</b>			<b>68901-15-5</b> <b>272-657-3</b>	
	oral	Long term (chronic)	systemic	0.16	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0.16	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0.557	mg/m <sup>3</sup>

**PNEC values**

No	Substance name	CAS / EC no
	ecological compartment	Type
		Value
1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-	-

Trade name: Duftstoff Cotton Blossom

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Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

	<b>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</b>		<b>915-730-3</b>
	water	fresh water	2.8 µg/L
	water	marine water	0.28 µg/L
	water	Aqua intermittent	13 µg/L
	water	fresh water sediment	3.73 µg/L
	water	marine water sediment	0.75 µg/L
	soil	-	2.7 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
	secondary poisoning with reference to: food	-	10 mg/kg
2	<b>benzyl-salicylate</b>		<b>118-58-1 204-262-9</b>
	water	fresh water	0.001 mg/L
	water	marine water	0 mg/L
	water	Aqua intermittent	0.01 mg/L
	water	fresh water sediment	0.583 mg/kg dry weight
	water	marine water sediment	0.058 mg/kg dry weight
	soil	-	1.41 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
	secondary poisoning	-	80 mg/kg food
3	<b>linalyl acetate</b>		<b>115-95-7 204-116-4</b>
	water	fresh water	0.011 mg/L
	water	Aqua intermittent	0.11 mg/L
	water	marine water	0.001 mg/L
	water	fresh water sediment	0.609 mg/kg dry weight
	water	marine water sediment	0.061 mg/kg dry weight
	soil	-	0.115 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
4	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>		<b>32388-55-9 251-020-3</b>
	water	fresh water	1.74 µg/L
	water	marine water	0.174 µg/L
	water	Aqua intermittent	8.6 µg/L
	water	fresh water sediment	24.4 mg/kg dry weight
	water	marine water sediment	2.44 mg/kg dry weight
	soil	-	4.87 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
5	<b>(2E)-2-(phenylmethylidene)octanal</b>		<b>165184-98-5 639-566-4</b>
	water	fresh water	0.001 mg/L
	water	marine water	0 mg/L
	water	fresh water sediment	3.2 mg/kg dry weight
	water	marine water sediment	0.064 mg/kg dry

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

				weight
	soil	-	0.398	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	6.6	mg/kg food
6	<b>benzyl acetate</b>		<b>140-11-4</b> <b>205-399-7</b>	
	water	fresh water	0.018	mg/L
	water	marine water	0.002	mg/L
	water	fresh water sediment	0.526	mg/kg dry weight
	water	marine water sediment	0.053	mg/kg dry weight
	soil	-	0.094	mg/kg dry weight
	sewage treatment plant	-	8.55	mg/L
7	<b>2-phenylethanol</b>		<b>60-12-8</b> <b>200-456-2</b>	
	water	fresh water	0.215	mg/L
	water	marine water	0.021	mg/L
	water	fresh water sediment	1.454	mg/kg dry weight
	water	marine water sediment	0.145	mg/kg dry weight
	soil	-	0.164	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
8	<b>linalool</b>		<b>78-70-6</b> <b>201-134-4</b>	
	water	fresh water	0.2	mg/L
	water	marine water	0.02	mg/L
	water	Aqua intermittent	2	mg/L
	water	fresh water sediment	2.22	mg/kg dry weight
	water	marine water sediment	0.222	mg/kg dry weight
	soil	-	0.327	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	7.8	mg/kg food
9	<b>Eugenol</b>		<b>97-53-0</b> <b>202-589-1</b>	
	water	fresh water	1.13	µg/L
	water	marine water	0.113	µg/L
	water	fresh water sediment	0.081	mg/kg dry weight
	water	marine water sediment	0.008	mg/kg dry weight
	soil	-	0.015	mg/kg dry weight
10	<b>Coumarin</b>		<b>91-64-5</b> <b>202-086-7</b>	
	water	fresh water	0.0056	mg/L
	water	marine water	0.00056	mg/L
	water	Aqua intermittent	0.056	mg/L
	water	fresh water sediment	0.207	mg/kg dry weight

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

	water	marine water sediment	0.0207	mg/kg dry weight
	soil	-	0.0217	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
11	<b>(Z)-3-hexenyl salicylate</b>		<b>65405-77-8</b> <b>265-745-8</b>	
	water	fresh water	0.61	µg/L
	water	marine water	0.061	µg/L
	water	fresh water sediment	0.11	mg/kg dry weight
	water	marine water sediment	0.011	mg/kg dry weight
	soil	-	0.022	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	40	mg/kg food
12	<b>7-hydroxycitronellal</b>		<b>107-75-5</b> <b>203-518-7</b>	
	water	fresh water	31.6	µg/L
	water	marine water	3.16	µg/L
	water	fresh water sediment	0.145	mg/kg dry weight
	water	marine water sediment	0.015	mg/kg dry weight
	soil	-	0.011	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
13	<b>allyl (cyclohexyloxy)acetate</b>		<b>68901-15-5</b> <b>272-657-3</b>	
	water	fresh water	2.05	µg/L
	water	marine water	0.205	µg/L
	water	fresh water sediment	38.7	µg/kg dry weight
	water	marine water sediment	3.87	µg/kg dry weight
	soil	-	0.375	mg/kg dry weight
	sewage treatment plant	-	0.3	mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the

**Trade name:** Duftstoff Cotton Blossom**Product no.:** 259999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 10.12.2021**Region:** GB

manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Other**

Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>			
liquid			
<b>Form/Colour</b>			
liquid			
light yellow			
<b>Odour</b>			
perfume-like			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
Value	>	200	°C
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value	>	100	°C
<b>Ignition temperature</b>			
No data available			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
Value	<	300	hPa
Reference temperature		50	°C
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value		1	g/cm <sup>3</sup>
Reference temperature		20	°C
<b>Solubility in water</b>			

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Value	appr.	44	%
<b>Solubility</b>			
Comments	soluble in most of organic solvents		
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	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	-	915-730-3
log Pow	5.6	-	5.7
Reference temperature			30 °C
Method	OECD 117		
Source	ECHA		
2	benzyl-salicylate	118-58-1	204-262-9
log Pow			4.0
Reference temperature			35 °C
Method	OECD 117		
Source	ECHA		
3	linalyl acetate	115-95-7	204-116-4
log Pow			3.9
Reference temperature			25 °C
Method	OECD 107		
Source	ECHA		
4	[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	251-020-3
log Pow	5.6	-	5.9
Method	OECD 117		
Source	ECHA		
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
log Pow	appr.		5.3
Reference temperature			24 °C
Method	OECD 117		
Source	ECHA		
6	benzyl acetate	140-11-4	205-399-7
log Pow			1.96
Reference temperature			25 °C
Source	ECHA		
7	2-phenylethanol	60-12-8	200-456-2
log Pow			1.3
Reference temperature			20 °C
Method	OECD 117		
Source	ECHA		
8	linalool	78-70-6	201-134-4
log Pow			2.84
Reference temperature			20 °C
Method	OECD 107		
Source	ECHA		
9	Eugenol	97-53-0	202-589-1
log Pow			1.83
Reference temperature			30 °C
Method	OECD 117		
Source	ECHA		
10	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow			4.8

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Reference temperature	25	°C
Method	OECD 117	
Source	ECHA	
<b>11</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b> <b>203-518-7</b>
log Pow	1.68	
Reference temperature	25	°C
Method	OECD 107	
Source	ECHA	
<b>12</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b> <b>272-657-3</b>
log Pow	2.8	
Reference temperature	24.7	°C
Method	EU Method A.8	
Source	ECHA	

**Viscosity**

No data available

**Particle characteristics**

No data available

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None known

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Duftstoff Cotton Blossom
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	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-	-	915-730-3

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

	<b>(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</b>		
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>2</b>	<b>2-methyl-4-phenylbutan-2-ol</b>	<b>103-05-9</b>	<b>203-074-4</b>
LD50	>	2000	mg/kg bodyweight
Species	rat (female)		
Method	OECD 425		
Source	ECHA		
<b>3</b>	<b>linalyl acetate</b>	<b>115-95-7</b>	<b>204-116-4</b>
LD50	>	9000	mg/kg bodyweight
Species	rat		
Method	BASF-Test		
Source	ECHA		
<b>4</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
LD50		4500	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>5</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
LD50	appr.	3100	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>6</b>	<b>benzyl acetate</b>	<b>140-11-4</b>	<b>205-399-7</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>7</b>	<b>2-phenylethanol</b>	<b>60-12-8</b>	<b>200-456-2</b>
LD50		1609.3	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>8</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
LD50		2790	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>9</b>	<b>Eugenol</b>	<b>97-53-0</b>	<b>202-589-1</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
<b>10</b>	<b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b>	<b>265-745-8</b>
LD50		3031	mg/kg bodyweight
Species	rat		
Method	EU Method B.1		
Source	ECHA		
<b>11</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b>	<b>203-518-7</b>
LD50	>	6400	mg/kg bodyweight

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Species	rat		
Method	OECD 401		
Source	ECHA		
<b>12</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
LD50		620.42	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>Acute dermal toxicity</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>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</b>	<b>-</b>	<b>915-730-3</b>
LD50		> 5000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
<b>2</b>	<b>linalyl acetate</b>	<b>115-95-7</b>	<b>204-116-4</b>
LD50		> 5000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
<b>3</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
LD50		> 5000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
<b>4</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
LD50		> 3000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
<b>5</b>	<b>benzyl acetate</b>	<b>140-11-4</b>	<b>205-399-7</b>
LD50		> 5000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>6</b>	<b>2-phenylethanol</b>	<b>60-12-8</b>	<b>200-456-2</b>
LD50		2535	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
<b>7</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
LD50		5610	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
<b>8</b>	<b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b>	<b>265-745-8</b>
LD50		> 2000	mg/kg bodyweight
Species	rabbit		
Method	EU Method B.3		
Source	ECHA		
<b>9</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
LD50		> 2000	mg/kg bodyweight

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Species	rat
Method	OECD 402
Source	ECHA

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
LC50	>	5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
2	Eugenol	97-53-0	202-589-1
LC50	>	5	mg/l
Duration of exposure		4	h
State of aggregation	mist		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	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	-	915-730-3
Method	OECD 439		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	2-methyl-4-phenylbutan-2-ol	103-05-9	203-074-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
3	linalyl acetate	115-95-7	204-116-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
4	[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	251-020-3
Method	OECD 439		
Source	ECHA		
Evaluation	non-irritant		
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	non-irritant		
6	benzyl acetate	140-11-4	205-399-7
Duration of exposure		4	h
Species	rabbit		
Method	EU B.4		
Source	ECHA		

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>7</b>	<b>2-phenylethanol</b>	<b>60-12-8</b>	<b>200-456-2</b>
Species	rabbit		
Method	79/831/EEC		
Source	ECHA		
Evaluation	non-irritant		
<b>8</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
<b>9</b>	<b>Eugenol</b>	<b>97-53-0</b>	<b>202-589-1</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
<b>10</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b>	<b>203-518-7</b>
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		
<b>11</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
Duration of exposure	4		h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Serious eye damage/irritation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>benzyl-salicylate</b>	<b>118-58-1</b>	<b>204-262-9</b>
Species	rabbit		
Method	OECD 437		
Source	ECHA		
Evaluation	irritant		
<b>2</b>	<b>linalyl acetate</b>	<b>115-95-7</b>	<b>204-116-4</b>
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
Evaluation	irritant		
<b>3</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
<b>4</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	non-irritant		
<b>5</b>	<b>benzyl acetate</b>	<b>140-11-4</b>	<b>205-399-7</b>
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>6</b>	<b>2-phenylethanol</b>	<b>60-12-8</b>	<b>200-456-2</b>
Species	rabbit		
Method	Value taken from the literature		

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Source Evaluation	ECHA Irritating to eyes
<b>7</b>   <b>linalool</b>	<b>78-70-6</b> <b>201-134-4</b>
Species Method Source	rabbit OECD 405 ECHA
<b>8</b>   <b>Eugenol</b>	<b>97-53-0</b> <b>202-589-1</b>
Species Method Source Evaluation	rabbit OECD 405 ECHA Irritating to eyes
<b>9</b>   <b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b> <b>265-745-8</b>
Species Method Source Evaluation	rabbit EU B.5 ECHA non-irritant
<b>10</b>   <b>7-hydroxycitronellal</b>	<b>107-75-5</b> <b>203-518-7</b>
Species Method Source Evaluation	rabbit BASF-Test ECHA non-irritant
<b>11</b>   <b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b> <b>272-657-3</b>
Duration of exposure	10 min
Species Method Source Evaluation/classification	cattle OECD 437 ECHA Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>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</b>	-	<b>915-730-3</b>
Route of exposure	Skin		
Species Method Source Evaluation Evaluation/classification	mouse OECD 429 ECHA sensitizing Based on available data, the classification criteria are met.		
<b>2</b>	<b>benzyl-salicylate</b>	<b>118-58-1</b>	<b>204-262-9</b>
Route of exposure	Skin		
Species Method Source Evaluation	mouse OECD 429 ECHA sensitizing		
<b>3</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
Route of exposure	Skin		
Species Method Source Evaluation	mouse OECD 429 ECHA sensitizing		
<b>4</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
Route of exposure	Skin		
Species	mouse		

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Method	OECD 429	
Source	ECHA	
Evaluation	sensitizing	
<b>5</b>	<b>benzyl acetate</b>	<b>140-11-4</b> <b>205-399-7</b>
Route of exposure	Skin	
Species	guinea pig	
Method	OECD 406	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>6</b>	<b>2-phenylethanol</b>	<b>60-12-8</b> <b>200-456-2</b>
Route of exposure	Skin	
Species	mouse	
Method	OECD 429	
Source	ECHA	
Evaluation	non-sensitizing	
<b>7</b>	<b>linalool</b>	<b>78-70-6</b> <b>201-134-4</b>
Route of exposure	Skin	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are met.	
<b>8</b>	<b>Eugenol</b>	<b>97-53-0</b> <b>202-589-1</b>
Route of exposure	Skin	
Species	mouse	
Method	OECD 429	
Source	ECHA	
Evaluation	sensitizing	
<b>9</b>	<b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b> <b>265-745-8</b>
Route of exposure	Skin	
Species	guinea pig	
Method	OECD 406	
Source	ECHA	
Evaluation	non-sensitizing	
<b>10</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b> <b>203-518-7</b>
Route of exposure	Skin	
Species	mouse	
Method	OECD 429	
Source	ECHA	
Evaluation	sensitizing	
<b>11</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b> <b>272-657-3</b>
Route of exposure	Skin	
Duration of exposure	28	day(s)
Species	guinea pig	
Method	OECD 406	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

**Germ cell mutagenicity**

No	Substance name	CAS no.	EC no.
1	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	-	915-730-3
Type of examination	In vitro Mammalian Chromosomal Aberration Test		
Species	Human Lymphocyte		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Type of examination	in vitro gene mutation study in mammalian cells	
Species	Mouse lymphoma cells	
Method	OECD 476	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
Type of examination	in vitro gene mutation study in bacteria	
Species	Salmonella typhimurium / Escherichia coli	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>2</b>	<b>linalyl acetate</b>	<b>115-95-7</b> <b>204-116-4</b>
Type of examination	in vitro gene mutation study in bacteria	
Species	Salmonella typhimurium TA98, TA100, TA1535, TA1537	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
Type of examination	In vitro Mammalian Chromosomal Aberration Test	
Species	Human Lymphocyte	
Method	OECD 473	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>3</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b> <b>251-020-3</b>
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>4</b>	<b>benzyl acetate</b>	<b>140-11-4</b> <b>205-399-7</b>
Type of examination	in vitro gene mutation study in bacteria	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>5</b>	<b>2-phenylethanol</b>	<b>60-12-8</b> <b>200-456-2</b>
Type of examination	Ames-Test	
Species	bacteria	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>6</b>	<b>linalool</b>	<b>78-70-6</b> <b>201-134-4</b>
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>7</b>	<b>Eugenol</b>	<b>97-53-0</b> <b>202-589-1</b>
Species	rat (male)	
Method	OECD 482	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>8</b>	<b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b> <b>265-745-8</b>
Method	OECD 476	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>9</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b> <b>203-518-7</b>
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>10</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b> <b>272-657-3</b>
Duration of exposure	48	h
Type of examination	in vitro gene mutation study in bacteria	
Species	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100S. typhimurium TA 1535, TA 1537, TA 98, TA 100, TA 102	

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-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	-	915-730-3
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		Toxicity study	
Species		rat	
Method		OECD 443	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	benzyl acetate	140-11-4	205-399-7
Route of exposure		oral	
Duration of exposure		12	week/s
Species		rat	
Method		OECD 416	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Method		OECD 415	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	benzyl acetate	140-11-4	205-399-7
Route of exposure		oral	
NOAEL		1200	mg/kg bw/d
Duration of exposure		103	week/s
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	linalool	78-70-6	201-134-4
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	Eugenol	97-53-0	202-589-1
Species		mouse	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	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-	-	915-730-3

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

<b>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</b>	
Route of exposure	oral
Method	OECD 408
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	dermal
Method	OECD 411
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>2</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b> <b>32388-55-9</b> <b>251-020-3</b>
Method	OECD 411
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>3</b>	<b>linalool</b> <b>78-70-6</b> <b>201-134-4</b>
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	
No data available	

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

No data available.

**Other information**

No data available.

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

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>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</b>	-	<b>915-730-3</b>
LC50		1.3	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	OECD 203		
Source	ECHA		
<b>2</b>	<b>benzyl-salicylate</b>	<b>118-58-1</b>	<b>204-262-9</b>
LC50		1.03	mg/l
Duration of exposure		96	h
Species	Brachydanio rerio		
Method	440/2008/EC C.1.		
Source	ECHA		
<b>3</b>	<b>2-methyl-4-phenylbutan-2-ol</b>	<b>103-05-9</b>	<b>203-074-4</b>
LC50		69.57	mg/l
Duration of exposure		96	h
Species	Brachydanio rerio		
Method	OECD 203		

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Source	ECHA		
<b>4</b>   <b>linalyl acetate</b>	<b>115-95-7</b>	<b>204-116-4</b>	
LC50		11	mg/l
Duration of exposure		96	h
Species	Cyprinus carpio		
Method	OECD 203		
Source	ECHA		
<b>5</b>   <b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>	
LC50		3.0	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
<b>6</b>   <b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>	
LC50		1.7	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
<b>7</b>   <b>benzyl acetate</b>	<b>140-11-4</b>	<b>205-399-7</b>	
LC50		4	mg/l
Duration of exposure		96	h
Species	Oryzias latipes		
Source	ECHA		
<b>8</b>   <b>2-phenylethanol</b>	<b>60-12-8</b>	<b>200-456-2</b>	
LC50	216	- 463	mg/l
Duration of exposure		96	h
Species	golden orfe		
Method	DIN 38412		
Source	ECHA		
<b>9</b>   <b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>	
LC50		27.8	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
<b>10</b>   <b>Eugenol</b>	<b>97-53-0</b>	<b>202-589-1</b>	
LC50		13	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
<b>11</b>   <b>7-hydroxycitronellal</b>	<b>107-75-5</b>	<b>203-518-7</b>	
LC50		31.6	mg/l
Duration of exposure		96	h
Species	Leuciscus idus		
Method	DIN 38412		
Source	ECHA		
<b>12</b>   <b>2,6-Octadienal, 3,7-dimethyl-, acid-isomerized</b>	<b>90480-35-6</b>	<b>291-768-8</b>	
LL50	>	4.31	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
<b>13</b>   <b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>	
LC50		0.205	mg/l
Duration of exposure		96	h

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Species	Danio rerio
Method	OECD 203
Source	ECHA

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	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	-	915-730-3
NOEC		0.16	mg/l
Species		Danio rerio	
Method		OECD 210	
Source		ECHA	
2	benzyl acetate	140-11-4	205-399-7
NOEC		0.92	mg/l
Duration of exposure		28	day(s)
Species		Oryzias latipes	
Source		ECHA	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	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	-	915-730-3
EC50		1.38	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	
2	benzyl-salicylate	118-58-1	204-262-9
EC50		2.25	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	
3	2-methyl-4-phenylbutan-2-ol	103-05-9	203-074-4
EC50		>	100 mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	
4	[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	251-020-3
EC50		0.86	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
EC50		> 0.36 - 0.58	mg/l
Duration of exposure		48	h
Species		Daphnia magna	

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Method	OECD 202		
Source	ECHA		
<b>6</b>	<b>benzyl acetate</b>	<b>140-11-4</b>	<b>205-399-7</b>
EC50		17	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>7</b>	<b>2-phenylethanol</b>	<b>60-12-8</b>	<b>200-456-2</b>
EC50		287.17	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EEC C2		
Source	ECHA		
<b>8</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
EC50		59	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>9</b>	<b>Eugenol</b>	<b>97-53-0</b>	<b>202-589-1</b>
EC50		1.13	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>10</b>	<b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b>	<b>265-745-8</b>
EC50		2.7	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>11</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b>	<b>203-518-7</b>
EC50		410	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	84/449/EEC, C.2		
Source	ECHA		
<b>12</b>	<b>2,6-Octadienal, 3,7-dimethyl-, acid-isomerized</b>	<b>90480-35-6</b>	<b>291-768-8</b>
EL50		4.31	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>13</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
EC50		11.3	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

**Toxicity to Daphnia (chronic)**

No	Substance name	CAS no.	EC no.
1	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	-	915-730-3

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

NOEC		0.028	mg/l
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
<b>2</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
NOEC		0.087	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
<b>3</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
NOEC		0.063	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
<b>4</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
NOEC		3.2	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>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</b>	-	<b>915-730-3</b>
EC50	>	2.6	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>benzyl-salicylate</b>	<b>118-58-1</b>	<b>204-262-9</b>
ErC50		1.29	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Method	OECD 201		
Source	ECHA		
<b>3</b>	<b>2-methyl-4-phenylbutan-2-ol</b>	<b>103-05-9</b>	<b>203-074-4</b>
EC50		49.81	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>4</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
EC50		2.8	mg/l
Duration of exposure		96	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>5</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>

**Trade name:** Duftstoff Cotton Blossom**Product no.:** 259999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 10.12.2021**Region:** GB

EC50	>	0.065	mg/l
Duration of exposure		72	h
Species	Desmodemus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>6</b>	<b>2-phenylethanol</b>	<b>60-12-8</b>	<b>200-456-2</b>
ErC50		1300	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Method	DIN 38412		
Source	ECHA		
<b>7</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>
ErC50		156.7	mg/l
Duration of exposure		96	h
Species	Desmodemus subspicatus		
Method	DIN 38412		
Source	ECHA		
<b>8</b>	<b>Eugenol</b>	<b>97-53-0</b>	<b>202-589-1</b>
ErC50		24	mg/l
Duration of exposure		72	h
Species	Desmodemus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>9</b>	<b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b>	<b>265-745-8</b>
EC50		0.61	mg/l
Duration of exposure		72	h
Species	Desmodemus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>10</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b>	<b>203-518-7</b>
EC50		123.32	mg/l
Duration of exposure		72	h
Species	Desmodemus subspicatus		
Method	OECD 201		
Source	ECHA		
<b>11</b>	<b>2,6-Octadienal, 3,7-dimethyl-, acid-isomerized</b>	<b>90480-35-6</b>	<b>291-768-8</b>
EL50		4.57	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>12</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
EC50		69.2	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No	Substance name	CAS no.	EC no.
1	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	-	915-730-3

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

EC10	100	mg/l
Species	activated sludge	
Method	OECD 301 F	
Source	ECHA	
<b>2</b>	<b>linalyl acetate</b>	<b>115-95-7</b> <b>204-116-4</b>
EC20	>	1000 mg/l
Duration of exposure	30	min
Species	activated sludge	
Source	ECHA	

**12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>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</b>	-	<b>915-730-3</b>
Type	aerobic biodegradation		
Value	11	%	
Duration	28	d	
Method	OECD 301 C		
Source	ECHA		
Evaluation	not readily biodegradable		
<b>2</b>	<b>benzyl-salicylate</b>	<b>118-58-1</b>	<b>204-262-9</b>
Type	aerobic biodegradation		
Value	93	%	
Method	OECD 301 F		
Source	ECHA		
<b>3</b>	<b>2-methyl-4-phenylbutan-2-ol</b>	<b>103-05-9</b>	<b>203-074-4</b>
Type	aerobic biodegradation		
Value	53.7	%	
Duration	28	day(s)	
Method	OECD 310		
Source	ECHA		
Evaluation	not readily biodegradable		
<b>4</b>	<b>linalyl acetate</b>	<b>115-95-7</b>	<b>204-116-4</b>
Value	70 - 80	%	
Duration	28	day(s)	
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
<b>5</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
Value	36	%	
Duration	28	day(s)	
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		
<b>6</b>	<b>(2E)-2-(phenylmethylidene)octanal</b>	<b>165184-98-5</b>	<b>639-566-4</b>
Value	appr. 97	%	
Duration	28	day(s)	
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
<b>7</b>	<b>linalool</b>	<b>78-70-6</b>	<b>201-134-4</b>

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Value	>	64	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
<b>8</b>	<b>Eugenol</b>	<b>97-53-0</b>	<b>202-589-1</b>
Value		82	%
Duration		28	day(s)
Method	440/2008/EC C.4.-E		
Source	ECHA		
Evaluation	readily biodegradable		
<b>9</b>	<b>(Z)-3-hexenyl salicylate</b>	<b>65405-77-8</b>	<b>265-745-8</b>
Value		89	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	degradable		
<b>10</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b>	<b>203-518-7</b>
Type	aerobic biodegradation		
Value	80	- 90	%
Duration		21	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
<b>11</b>	<b>2,6-Octadienal, 3,7-dimethyl-, acid-isomerized</b>	<b>90480-35-6</b>	<b>291-768-8</b>
Type	aerobic biodegradation		
Value		42	%
Method	OECD 301 D		
Source	ECHA		
Evaluation	inherently biodegradable		
<b>12</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
Type	aerobic biodegradation		
Value		24	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>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</b>	-	<b>915-730-3</b>
BCF		appr.	600
Species	Lepomis macrochirus		
Method	OECD 305		
Source	ECHA		
<b>2</b>	<b>benzyl-salicylate</b>	<b>118-58-1</b>	<b>204-262-9</b>
BCF			202
Method	QSAR		
Source	ECHA		
<b>3</b>	<b>[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one</b>	<b>32388-55-9</b>	<b>251-020-3</b>
BCF			3920

Trade name: Duftstoff Cotton Blossom

Product no.: 259999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 10.12.2021

Region: GB

Species	Oncorhynchus mykiss
Method	OECD 305
Source	ECHA

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	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	-	915-730-3
log Pow		5.6	- 5.7
Reference temperature			30 °C
Method		OECD 117	
Source		ECHA	
2	benzyl-salicylate	118-58-1	204-262-9
log Pow		4.0	
Reference temperature		35 °C	
Method		OECD 117	
Source		ECHA	
3	linalyl acetate	115-95-7	204-116-4
log Pow		3.9	
Reference temperature		25 °C	
Method		OECD 107	
Source		ECHA	
4	[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	251-020-3
log Pow		5.6	- 5.9
Method		OECD 117	
Source		ECHA	
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
log Pow		appr. 5.3	
Reference temperature		24 °C	
Method		OECD 117	
Source		ECHA	
6	benzyl acetate	140-11-4	205-399-7
log Pow		1.96	
Reference temperature		25 °C	
Source		ECHA	
7	2-phenylethanol	60-12-8	200-456-2
log Pow		1.3	
Reference temperature		20 °C	
Method		OECD 117	
Source		ECHA	
8	linalool	78-70-6	201-134-4
log Pow		2.84	
Reference temperature		20 °C	
Method		OECD 107	
Source		ECHA	
9	Eugenol	97-53-0	202-589-1
log Pow		1.83	
Reference temperature		30 °C	
Method		OECD 117	
Source		ECHA	
10	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow		4.8	
Reference temperature		25 °C	

**Trade name:** Duftstoff Cotton Blossom**Product no.:** 259999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 10.12.2021**Region:** GB

Method	OECD 117		
Source	ECHA		
<b>11</b>	<b>7-hydroxycitronellal</b>	<b>107-75-5</b>	<b>203-518-7</b>
log Pow		1.68	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
<b>12</b>	<b>allyl (cyclohexyloxy)acetate</b>	<b>68901-15-5</b>	<b>272-657-3</b>
log Pow		2.8	
Reference temperature		24.7	°C
Method	EU Method A.8		
Source	ECHA		

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge into drains or waters and do not dispose of in public landfills.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90

**Trade name:** Duftstoff Cotton Blossom**Product no.:** 259999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 10.12.2021**Region:** GB

UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**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 XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.
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**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.
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**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2
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**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content	0.1	%
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**Trade name:** Duftstoff Cotton Blossom**Product no.:** 259999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 10.12.2021**Region:** GB**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.  
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
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.
H412	Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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