



Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

California Scents Car Scents Sacramento Apple

Version number: GHS 6.1
Replaces version of: 2023-09-08 (GHS 5)

Revision: 2023-10-03

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

1.1 Product identifier

Trade name

California Scents Car Scents Sacramento Apple

Alternative number(s)

5020144229964, 5020144230281, 5020144229629,
5020144230274, 091400041946

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

Relevant identified uses

Consumer uses: Air Freshener

1.3 Details of the supplier of the safety data sheet

Energizer Trading Ltd.
Sword House
Totteridge Road
High Wycombe HP13 6DG
United Kingdom

Telephone: +44(0)88000353376
e-mail: ConsumerServiceEU@energizer.com

1.4 Emergency telephone number

Emergency information service

This number is only available during the following
office hours: Mon-Fri 09:00 AM - 05:00 PM

Poison centre		
Name	Postal code/city	Telephone
UK poison centre		Product information has been submitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health professionals.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317

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Section	Hazard class	Category	Hazard class and category	Hazard statement
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

- Signal word warning

- Pictograms

GHS07, GHS09



- Hazard statements

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

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
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.
P501 Dispose of contents/container in accordance with national regulations.

- Hazardous ingredients for labelling

Benzyl salicylate, Geranyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Citronellol, Hexyl cinnamaldehyde, Dorisyl, damascone alpha, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Linalool

Labelling of packages where the contents do not exceed 125 ml

- Signal word warning

- Hazard pictogram(s)

Warning. GHS07, GHS09



- Hazard statements

H317 May cause an allergic skin reaction.

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- Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
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.
P501 Dispose of contents/container in accordance with national regulations.

- Contains Benzyl salicylate, Geranyl acetate, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Citronellol, Hexyl cinnamaldehyde, Dorisyl, damascone alpha, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Linalool

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.




SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
2-t-Butylcyclohexyl Acetate	CAS No 88-41-5 EC No 201-828-7	≥ 1	Aquatic Chronic 2 / H411	
Diethyl malonate	CAS No 105-53-3 EC No 203-305-9	≥ 4	Eye Irrit. 2 / H319	
Benzyl acetate	CAS No 140-11-4 EC No 205-399-7	≥ 1	Aquatic Chronic 3 / H412	
Benzyl salicylate	CAS No 118-58-1 EC No 204-262-9	≥ 3	Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412	








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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Aldehyde C-14	CAS No 104-67-6 EC No 203-225-4	≥ 1	Aquatic Chronic 3 / H412	
Geranyl acetate	CAS No 105-87-3 EC No 203-341-5	≥ 3	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412	
Ethyl butyrate	CAS No 105-54-4 EC No 203-306-4	≥ 2	Flam. Liq. 3 / H226 Eye Irrit. 2 / H319	
Citronellol	CAS No 106-22-9 EC No 203-375-0	≥ 1.5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Dihydromyrcenol	CAS No 18479-58-8 EC No 242-362-4	3 – < 15	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H336	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	CAS No 54464-57-2 EC No 259-174-3	3 – < 10	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 1 / H410	
Hexamethylindanopyran	CAS No 1222-05-5 EC No 214-946-9 Index No 603-212-00-7	2 – < 9	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
Benzyl benzoate	CAS No 120-51-4 EC No 204-402-9 Index No 607-085-00-9	1 – < 7	Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	









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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Manzanate	CAS No 39255-32-8 EC No 254-384-1	1 – < 5	Flam. Liq. 3 / H226	
Pentyl acetate	CAS No 628-63-7 EC No 211-047-3 Index No 607-130-00-2	1 – < 5	Flam. Liq. 3 / H226	
Hexyl cinnamaldehyde	CAS No 165184-98-5 101-86-0 EC No 639-566-4 202-983-3	1 – < 3	Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	
Allyl heptanoate	CAS No 142-19-8 EC No 205-527-1	1 – < 3	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	
Linalool	CAS No 78-70-6 EC No 201-134-4 Index No 603-235-00-2	0.1 – < 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	CAS No 68039-49-6 EC No 268-264-1	0.1 – < 0.9	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411	
Dorisyl	CAS No 32210-23-4 EC No 250-954-9	0.1 – < 0.9	Skin Sens. 1B / H317	
damascone alpha	CAS No 43052-87-5 24720-09-0	0.1 – < 0.9	Acute Tox. 4 / H302 Skin Sens. 1 / H317	



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Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Benzyl benzoate	-	-	500 mg/kg	oral
Allyl heptanoate	-	-	218 mg/kg 810 mg/kg	oral dermal
damascone alpha	-	-	500 mg/kg	oral

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet



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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
EU	pentyl acetate	628-63-7	IOELV	50	270	100	540				2000/39/EC
GB	cellulose	9004-34-6	WEL		10		20			i	EH40/2005
GB	cellulose	9004-34-6	WEL		4					r	EH40/2005

Notation

Ceiling-C

i

r

STEL

TWA

ceiling value is a limit value above which exposure should not occur

inhalable fraction

respirable fraction

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)



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Relevant DNELs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Diethyl malonate	105-53-3	DNEL	8.468 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Diethyl malonate	105-53-3	DNEL	1.213 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Benzyl acetate	140-11-4	DNEL	12.5 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Benzyl acetate	140-11-4	DNEL	43.8 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Benzyl acetate	140-11-4	DNEL	9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl acetate	140-11-4	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Manzanate	39255-32-8	DNEL	52.08 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Manzanate	39255-32-8	DNEL	6.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexamethylindanopyran	1222-05-5	DNEL	13.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexamethylindanopyran	1222-05-5	DNEL	36.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Benzyl salicylate	118-58-1	DNEL	7.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl salicylate	118-58-1	DNEL	2.21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	24.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-14	104-67-6	DNEL	5.38 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-14	104-67-6	DNEL	19 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	62.59 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	35.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Benzyl benzoate	120-51-4	DNEL	14.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl benzoate	120-51-4	DNEL	70.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Benzyl benzoate	120-51-4	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethyl butyrate	105-54-4	DNEL	49.3 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Ethyl butyrate	105-54-4	DNEL	2.33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	161.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Citronellol	106-22-9	DNEL	327.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	2,950 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Allyl heptanoate	142-19-8	DNEL	2.97 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl heptanoate	142-19-8	DNEL	0.84 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	0.078 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	6.28 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	18.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	525 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	525 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Linalool	78-70-6	DNEL	16.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects



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Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	24.58 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	3.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Diethyl malonate	105-53-3	PNEC	11.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Diethyl malonate	105-53-3	PNEC	1.18 µg/l	aquatic organisms	marine water	short-term (single instance)
Diethyl malonate	105-53-3	PNEC	0.108 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Diethyl malonate	105-53-3	PNEC	4.62 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Diethyl malonate	105-53-3	PNEC	0.924 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Diethyl malonate	105-53-3	PNEC	8.557 µg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.04 mg/l	aquatic organisms	water	intermittent release
Benzyl acetate	140-11-4	PNEC	0.018 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	8.55 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.526 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.053 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Benzyl acetate	140-11-4	PNEC	0.094 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Manzanate	39255-32-8	PNEC	0.026 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Manzanate	39255-32-8	PNEC	0.003 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Manzanate	39255-32-8	PNEC	0.3 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Manzanate	39255-32-8	PNEC	0.426 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Manzanate	39255-32-8	PNEC	0.043 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Manzanate	39255-32-8	PNEC	0.07 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Hexamethylindan-opyran	1222-05-5	PNEC	6.8 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Hexamethylindan-opyran	1222-05-5	PNEC	0.44 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Hexamethylindan-opyran	1222-05-5	PNEC	1 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Hexamethylindan-opyran	1222-05-5	PNEC	2 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Hexamethylindan-opyran	1222-05-5	PNEC	0.394 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Hexamethylindan-opyran	1222-05-5	PNEC	1.5 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.0103 mg/l	aquatic organ-isms	water	intermittent re-lease
Benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organ-isms	water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Benzyl salicylate	118-58-1	PNEC	0.583 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.058 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	1.41 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	111 mg/kg	aquatic organisms	water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.278 mg/l	aquatic organisms	water	intermittent release
Dihydromyrcenol	18479-58-8	PNEC	27.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	2.78 µg/l	aquatic organisms	marine water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.594 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.059 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Aldehyde C-14	104-67-6	PNEC	66.7 mg/kg	aquatic organisms	water	short-term (single instance)
Aldehyde C-14	104-67-6	PNEC	0.0585 mg/l	aquatic organisms	water	intermittent release
Aldehyde C-14	104-67-6	PNEC	84 µg/l	aquatic organisms	freshwater	short-term (single instance)
Aldehyde C-14	104-67-6	PNEC	8.4 µg/l	aquatic organisms	marine water	short-term (single instance)
Aldehyde C-14	104-67-6	PNEC	80 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Aldehyde C-14	104-67-6	PNEC	5.341 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Aldehyde C-14	104-67-6	PNEC	0.534 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Aldehyde C-14	104-67-6	PNEC	1.019 mg/kg	terrestrial organisms	soil	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	37.2 µg/l	aquatic organisms	water	intermittent release
Geranyl acetate	105-87-3	PNEC	3.72 µg/l	aquatic organisms	freshwater	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.372 µg/l	aquatic organisms	marine water	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.442 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.044 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.086 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl benzoate	120-51-4	PNEC	0.003 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl benzoate	120-51-4	PNEC	0.322 µg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl benzoate	120-51-4	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzyl benzoate	120-51-4	PNEC	2.043 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl benzoate	120-51-4	PNEC	0.204 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzyl benzoate	120-51-4	PNEC	0.406 mg/kg	terrestrial organisms	soil	short-term (single instance)
Ethyl butyrate	105-54-4	PNEC	29.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
Ethyl butyrate	105-54-4	PNEC	2.97 µg/l	aquatic organisms	marine water	short-term (single instance)
Ethyl butyrate	105-54-4	PNEC	23.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl butyrate	105-54-4	PNEC	0.173 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Ethyl butyrate	105-54-4	PNEC	17.3 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ethyl butyrate	105-54-4	PNEC	17.1 µg/kg	terrestrial organisms	soil	short-term (single instance)
Citronellol	106-22-9	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Citronellol	106-22-9	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citronellol	106-22-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Citronellol	106-22-9	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citronellol	106-22-9	PNEC	0.026 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.004 mg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	51.78 mg/kg	aquatic organisms	water	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	1.2 µg/l	aquatic organisms	water	intermittent release
Allyl heptanoate	142-19-8	PNEC	0.12 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.001 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.002 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	3.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0.398 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dorisyl	32210-23-4	PNEC	5.3 µg/l	aquatic organisms	freshwater	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.53 µg/l	aquatic organisms	marine water	short-term (single instance)
Dorisyl	32210-23-4	PNEC	12.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dorisyl	32210-23-4	PNEC	2.01 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.21 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	66.67 mg/kg	aquatic organisms	water	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.42 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dorisyl	32210-23-4	PNEC	53 µg/l	aquatic organisms	water	intermittent release
Linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
Linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	green - Yellow
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	121 °C at 972.4 hPa
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	72 °C
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	1,750 Pa at 20 °C
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Density and/or relative density



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Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Benzyl benzoate	120-51-4	oral	500 mg/kg
Allyl heptanoate	142-19-8	oral	218 mg/kg
Allyl heptanoate	142-19-8	dermal	810 mg/kg
damascone alpha	43052-87-5 24720-09-0	oral	500 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Diethyl malonate	105-53-3	LC50	15.4 mg/l	fish	96 h
Diethyl malonate	105-53-3	EC50	15.2 mg/l	fish	96 h
Diethyl malonate	105-53-3	ErC50	>800 mg/l	green algae (Selenastrum capricornutum)	72 h
Benzyl acetate	140-11-4	LC50	4 mg/l	fish	96 h
Benzyl acetate	140-11-4	EC50	25 mg/l	aquatic invertebrates	24 h
Benzyl acetate	140-11-4	ErC50	110 mg/l	green algae (Selenastrum capricornutum)	72 h
Benzyl acetate	140-11-4	NOEC	10 mg/l	aquatic invertebrates	48 h
Benzyl acetate	140-11-4	LOEC	113 mg/l	green algae (Selenastrum capricornutum)	72 h
Manzanate	39255-32-8	LC50	>100 mg/l	fish	96 h
Manzanate	39255-32-8	EC50	>100 mg/l	aquatic invertebrates	48 h
Manzanate	39255-32-8	ErC50	>100 mg/l	green algae (Selenastrum capricornutum)	72 h
Hexamethylindanopyran	1222-05-5	LC50	0.95 mg/l	fish	96 h
Hexamethylindanopyran	1222-05-5	EC50	0.194 mg/l	aquatic invertebrates	48 h
Hexamethylindanopyran	1222-05-5	ErC50	>0.854 mg/l	green algae (Selenastrum capricornutum)	72 h
Hexamethylindanopyran	1222-05-5	NOEC	0.201 mg/l	green algae (Selenastrum capricornutum)	72 h
Benzyl salicylate	118-58-1	LC50	1.03 mg/l	fish	96 h
Benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	ErC50	1.29 mg/l	green algae (Selenastrum capricornutum)	72 h
Benzyl salicylate	118-58-1	NOEC	0.894 mg/l	aquatic invertebrates	48 h



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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Dihydromyrcenol	18479-58-8	LC50	27.8 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	EC50	38 mg/l	aquatic invertebrates	48 h
Dihydromyrcenol	18479-58-8	ErC50	80 mg/l	green algae (Selenastrum capricornutum)	72 h
Dihydromyrcenol	18479-58-8	NOEC	<3.5 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	LOEC	50 mg/l	green algae (Selenastrum capricornutum)	72 h
Aldehyde C-14	104-67-6	LC50	5.5 mg/l	fish	96 h
Aldehyde C-14	104-67-6	EC50	4 mg/l	aquatic invertebrates	48 h
Aldehyde C-14	104-67-6	ErC50	7.218 mg/l	green algae (Selenastrum capricornutum)	72 h
Aldehyde C-14	104-67-6	NOEC	3.33 mg/l	green algae (Selenastrum capricornutum)	48 h
Geranyl acetate	105-87-3	LC50	68.12 mg/l	fish	96 h
Geranyl acetate	105-87-3	EC50	14.1 mg/l	aquatic invertebrates	48 h
Geranyl acetate	105-87-3	ErC50	3.72 mg/l	green algae (Selenastrum capricornutum)	72 h
Geranyl acetate	105-87-3	NOEC	10 mg/l	fish	96 h
Benzyl benzoate	120-51-4	LC50	2.32 mg/l	fish	96 h
Benzyl benzoate	120-51-4	EC50	4.26 mg/l	aquatic invertebrates	24 h
Benzyl benzoate	120-51-4	ErC50	0.475 mg/l	green algae (Selenastrum capricornutum)	72 h
Benzyl benzoate	120-51-4	NOEC	1.73 mg/l	aquatic invertebrates	48 h
Ethyl butyrate	105-54-4	LC50	≥100 mg/l	fish	96 h
Ethyl butyrate	105-54-4	EC50	116.6 mg/l	aquatic invertebrates	48 h
Ethyl butyrate	105-54-4	LOEC	236 mg/l	microorganisms	72 h
Citronellol	106-22-9	LC50	14.66 mg/l	fish	96 h
Citronellol	106-22-9	EC50	17.48 mg/l	aquatic invertebrates	48 h
Citronellol	106-22-9	NOEC	4.6 mg/l	fish	96 h

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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Allyl heptanoate	142-19-8	LC50	0.201 mg/l	fish	24 h
Allyl heptanoate	142-19-8	EC50	0.89 mg/l	aquatic invertebrates	48 h
Allyl heptanoate	142-19-8	ErC50	>4.6 mg/l	green algae (Selenastrum capricornutum)	72 h
Allyl heptanoate	142-19-8	NOEC	0.158 mg/l	green algae (Selenastrum capricornutum)	72 h
Allyl heptanoate	142-19-8	LOEC	0.505 mg/l	green algae (Selenastrum capricornutum)	72 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	LC50	1.7 mg/l	fish	96 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	EC50	<0.59 mg/l	aquatic invertebrates	48 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	ErC50	>0.065 mg/l	green algae (Selenastrum capricornutum)	72 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	NOEC	0.93 mg/l	fish	96 h
Dorisyl	32210-23-4	LC50	8.6 mg/l	fish	96 h
Dorisyl	32210-23-4	EC50	5.3 mg/l	aquatic invertebrates	48 h
Dorisyl	32210-23-4	ErC50	22 mg/l	green algae (Selenastrum capricornutum)	72 h
Dorisyl	32210-23-4	NOEC	6.8 mg/l	green algae (Selenastrum capricornutum)	72 h
Linalool	78-70-6	LC50	27.8 mg/l	fish	96 h
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 mg/l	green algae (Selenastrum capricornutum)	96 h
Linalool	78-70-6	NOEC	<3.5 mg/l	fish	96 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Diethyl malonate	105-53-3	EC50	285.8 mg/l	aquatic invertebrates	24 h

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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Benzyl acetate	140-11-4	EC50	855 mg/l	microorganisms	3 h
Benzyl acetate	140-11-4	NOEC	0.92 mg/l	fish	28 d
Manzanate	39255-32-8	EC50	22.53 mg/l	aquatic invertebrates	21 d
Manzanate	39255-32-8	NOEC	1.3 mg/l	aquatic invertebrates	21 d
Hexamethylindanopyran	1222-05-5	LC50	>0.14 mg/l	fish	36 d
Hexamethylindanopyran	1222-05-5	EC50	0.282 mg/l	aquatic invertebrates	21 d
Hexamethylindanopyran	1222-05-5	NOEC	0.068 mg/l	fish	36 d
Hexamethylindanopyran	1222-05-5	LOEC	0.075 mg/l	aquatic invertebrates	5.5 d
Benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	LC50	4.34 mg/l	aquatic invertebrates	24 h
Dihydromyrcenol	18479-58-8	EC50	17 mg/l	aquatic invertebrates	21 d
Dihydromyrcenol	18479-58-8	NOEC	9.5 mg/l	aquatic invertebrates	21 d
Aldehyde C-14	104-67-6	EC50	3.7 mg/l	aquatic invertebrates	21 d
Aldehyde C-14	104-67-6	NOEC	0.138 mg/l	aquatic invertebrates	21 d
Aldehyde C-14	104-67-6	LOEC	1.83 mg/l	aquatic invertebrates	21 d
Benzyl benzoate	120-51-4	LC50	11 mg/l	aquatic invertebrates	24 h
Benzyl benzoate	120-51-4	EC50	>10,000 mg/l	microorganisms	3 h
Benzyl benzoate	120-51-4	NOEC	0.023 mg/l	fish	35 d
Benzyl benzoate	120-51-4	LOEC	0.049 mg/l	fish	35 d
Ethyl butyrate	105-54-4	NOEC	1.483 mg/l	fish	28 d
Citronellol	106-22-9	EC50	>10,000 mg/l	microorganisms	30 min
Hexyl cinnamaldehyde	165184-98-5 101-86-0	EC50	>157 µg/l	aquatic invertebrates	21 d
Hexyl cinnamaldehyde	165184-98-5 101-86-0	NOEC	63 µg/l	aquatic invertebrates	21 d

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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexyl cinnamaldehyde	165184-98-5 101-86-0	LOEC	157 µg/l	aquatic invertebrates	21 d
Dorisyl	32210-23-4	EC50	302 mg/l	microorganisms	3 h
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Diethyl malonate	105-53-3	DOC removal	0 %	0 d		ECHA
Benzyl acetate	140-11-4	carbon dioxide generation	100.9 %	28 d		ECHA
Hexamethylindanopyran	1222-05-5	carbon dioxide generation	1 %	28 d		ECHA
Benzyl salicylate	118-58-1	oxygen depletion	93 %	28 d		ECHA
Dihydromyrcenol	18479-58-8	carbon dioxide generation	72 %	28 d		ECHA
Dihydromyrcenol	18479-58-8	DOC removal	100 %	28 d		ECHA
Aldehyde C-14	104-67-6	oxygen depletion	16 %	1 d		ECHA
Geranyl acetate	105-87-3	oxygen depletion	>70 %	28 d		ECHA
Benzyl benzoate	120-51-4	oxygen depletion	94 %	28 d		ECHA
Ethyl butyrate	105-54-4	oxygen depletion	50 %	42 d		ECHA
Citronellol	106-22-9	oxygen depletion	80 – 90 %	28 d		ECHA
Allyl heptanoate	142-19-8	oxygen depletion	15 %	2 d		ECHA

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Degradability of components of the mixture

Name of sub-stance	CAS No	Process	Degradation rate	Time	Method	Source
Hexyl cinnamaldehyde	165184-98-5 101-86-0	oxygen depletion	97 %	28 d		ECHA
Dorisyl	32210-23-4	carbon dioxide generation	75 %	29 d		ECHA
Linalool	78-70-6	oxygen depletion	40.9 %	5 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Diethyl malonate	105-53-3		0.96	
Benzyl acetate	140-11-4	8	1.96 (pH value: 7, 25 °C)	
Manzanate	39255-32-8		2.09 (20 °C)	
Hexamethylindanopyran	1222-05-5	1,635	5.3 (pH value: 7, 25 °C)	
Benzyl salicylate	118-58-1		4 (35 °C)	
Dihydromyrcenol	18479-58-8	64.8	3.25 (pH value: 7, 40 °C)	
Aldehyde C-14	104-67-6		3.6 (25 °C)	
Geranyl acetate	105-87-3		4.04	
Benzyl benzoate	120-51-4	193.4	3.97 (25 °C)	
Ethyl butyrate	105-54-4	8	2.433 (pH value: 6.68, 25 °C)	
Citronellol	106-22-9	82.59	3.41 (25 °C)	
Allyl heptanoate	142-19-8	193.2	3.97 (pH value: 5.3, 20 °C)	
Hexyl cinnamaldehyde	165184-98-5 101-86-0		5.3 (24 °C)	
Dorisyl	32210-23-4	234	4.8 (25 °C)	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6		2.34	
Linalool	78-70-6		2.9 (pH value: 7, 20 °C)	



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12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

14.2 UN proper shipping name

ADR/RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	2-t-Butylcyclohexyl Acetate, Hexamethylindanopyran

14.3 Transport hazard class(es)

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ADR/RID	9
IMDG-Code	9
ICAO-TI	9
14.4 Packing group	
ADR/RID	III
IMDG-Code	III
ICAO-TI	III
14.5 Environmental hazards	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	2-t-Butylcyclohexyl Acetate, Hexamethylindanopyran
14.6 Special precautions for user	
Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7 Maritime transport in bulk according to IMO instruments	
The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following:
DOT: 171.4(2)
ADR: SP 375
IMDG: 2.10.2.7
IATA: special provision A197, DOT

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information

Particulars in the transport document	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: 2-t-Butylcyclohexyl Acetate, Hexamethylindanopyran), 9, III, (-)
Classification code	M6
Danger label(s)	9, fish and tree
 	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3

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Tunnel restriction code (TRC)

-

Hazard identification No

90

Emergency Action Code

3Z

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information

Classification code

M6

Danger label(s)

9, fish and tree



Environmental hazards

yes (hazardous to water)

Special provisions (SP)

274, 335, 375, 601

Excepted quantities (EQ)

E1

Limited quantities (LQ)

5 L

Transport category (TC)

3

Hazard identification No

90

International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: 2-t-Butylcyclohexyl Acetate, Hexamethylindanopyran), 9, III

Marine pollutant

yes (hazardous to the aquatic environment) (2-t-Butylcyclohexyl Acetate)

Danger label(s)

9, fish and tree



Special provisions (SP)

274, 335, 969

Excepted quantities (EQ)

E1

Limited quantities (LQ)

5 L

EmS

F-A, S-F

Stowage category

A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Particulars in the shipper's declaration

UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, Hexamethylindanopyran), 9, III

Environmental hazards

yes (hazardous to the aquatic environment)

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Danger label(s)

9, fish and tree



Special provisions (SP)

A97, A158, A197, A215

Excepted quantities (EQ)

E1

Limited quantities (LQ)

30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	CAS No	Listed in	Remarks
Hexamethylindanopyran		a)	
Linalool		a)	

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed



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Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
California Scents Car Scents Sacramento Apple	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
Pentyl acetate	flammable / pyrophoric		40
Ethyl butyrate	flammable / pyrophoric		40
Manzanate	flammable / pyrophoric		40

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	all ingredients are listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances



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Legend

ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.2		- Precautionary statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value



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Abbr.	Descriptions of used abbreviations
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LOEC	Lowest Observed Effect Concentration

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Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.



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Code	Text
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.