Safety Data Sheet

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

California Scents Car Scents Concord Cranberry

Version number: GHS 5.0
Replaces version of: 2022-10-25 (GHS 4)

Revision: 2023-07-05

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

1.1 Product identifier

Trade name: **California Scents Car Scents Concord Cranberry**

Alternative number(s): 091400019228, 091400000486, 7638900435139, 7638900850505, 091400039875, 0914000411076

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
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317
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

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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with national regulations.

- Hazardous ingredients for labelling: Benzyl salicylate, Aldehyde C-16, Linalool, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Geraniol, Neryl acetate, Citral, Geranyl acetate

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.

- 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, Aldehyde C-16, Linalool, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Geraniol, Neryl acetate, Citral, Geranyl acetate

2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 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
diethyl 1,4-cyclohexanedi-carboxylate	CAS No 72903-27-6 EC No 417-310-0 Index No 607-671-00-4	10 – < 25	Aquatic Chronic 2 / H411	
2-t-Butylcyclohexyl Acetate	CAS No 88-41-5 EC No 201-828-7	5 – < 10	Aquatic Chronic 2 / H411	
Benzyl salicylate	CAS No 118-58-1 EC No 204-262-9	5 – < 10	Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412	
Aldehyde C-16	CAS No 77-83-8 EC No 201-061-8	5 – < 10	Skin Sens. 1B / H317 Aquatic Chronic 2 / H411	
Linalool	CAS No 78-70-6 EC No 201-134-4 Index No 603-235-00-2	5 – < 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Benzyl benzoate	CAS No 120-51-4 EC No 204-402-9 Index No 607-085-00-9	5 – < 10	Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	
Ethyl 2-methylbutyrate	CAS No 7452-79-1 EC No 231-225-4	1 – < 5	Flam. Liq. 3 / H226	
Phenethyl alcohol	CAS No 60-12-8 EC No 200-456-2	1 – < 5	Acute Tox. 4 / H302 Eye Irrit. 2 / H319	
Benzyl acetate	CAS No 140-11-4 EC No 205-399-7	1 – < 5	Aquatic Chronic 3 / H412	
Aldehyde C-14	CAS No 104-67-6 EC No 203-225-4	1 – < 5	Aquatic Chronic 3 / H412	
Hexyl Acetate	CAS No 142-92-7 EC No 205-572-7	1 – < 5	Flam. Liq. 3 / H226	
Ethyl butyrate	CAS No 105-54-4 EC No 203-306-4	1 – < 5	Flam. Liq. 3 / H226 Eye Irrit. 2 / H319	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	CAS No 68039-49-6 EC No 268-264-1	1 – < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411	
Geranyl acetate	CAS No 105-87-3 EC No 203-341-5	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412	

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Geraniol	CAS No 106-24-1 EC No 203-377-1 Index No 603-241-00-5	< 1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	
Allyl Caproate	CAS No 123-68-2 EC No 204-642-4	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	
Citral	CAS No 5392-40-5 EC No 226-394-6 Index No 605-019-00-3	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	
Neryl acetate	CAS No 141-12-8 EC No 205-459-2	< 1	Skin Sens. 1B / H317	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Benzyl benzoate	-	-	500 $^{mg}/_{kg}$	oral
Phenethyl alcohol	-	-	1,603 $^{mg}/_{kg}$	oral
Allyl Caproate	-	-	100 $^{mg}/_{kg}$ 820 $^{mg}/_{kg}$ 3 $^{mg}/_{l}$/4h	oral dermal inhalation: vapour

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. 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

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.

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

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Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
GB	cellulose	9004-34-6	WEL		10		20			i	EH40/2005
GB	cellulose	9004-34-6	WEL		4					r	EH40/2005

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
r	respirable fraction
STEL	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)
TWA	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)

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
Benzyl salicylate	118-58-1	DNEL	7.8 mg/m³	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
Aldehyde C-16	77-83-8	DNEL	17.63 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	35.26 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Aldehyde C-16	77-83-8	DNEL	44.08 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Aldehyde C-16	77-83-8	DNEL	88.16 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Aldehyde C-16	77-83-8	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

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	24.58 mg/m³	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
Benzyl benzoate	120-51-4	DNEL	14.1 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl benzoate	120-51-4	DNEL	70.5 mg/m³	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 2-methylbutyrate	7452-79-1	DNEL	52.08 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Ethyl 2-methylbutyrate	7452-79-1	DNEL	6.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Phenethyl alcohol	60-12-8	DNEL	59.9 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Phenethyl alcohol	60-12-8	DNEL	21.2 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/m³	human, inhalatory	worker (industry)	acute - systemic effects
Benzyl acetate	140-11-4	DNEL	9 mg/m³	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
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/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl Acetate	142-92-7	DNEL	48 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl Acetate	142-92-7	DNEL	48 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Hexyl Acetate	142-92-7	DNEL	14 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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
Ethyl butyrate	105-54-4	DNEL	49.3 mg/m³	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
Geraniol	106-24-1	DNEL	11.8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	4.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/cm²	human, dermal	worker (industry)	chronic - local effects
Geranyl acetate	105-87-3	DNEL	62.59 mg/m³	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
Allyl Caproate	123-68-2	DNEL	15 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl Caproate	123-68-2	DNEL	4.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citral	5392-40-5	DNEL	9 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Citral	5392-40-5	DNEL	1.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citral	5392-40-5	DNEL	140 µg/cm²	human, dermal	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	PNEC	71 µg/l	aquatic organisms	water	intermittent release
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	PNEC	7.1 µg/l	aquatic organisms	freshwater	short-term (single instance)
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	PNEC	0.71 µg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	PNEC	32 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	PNEC	0.148 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	PNEC	0.025 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.0103 mg/l	aquatic organisms	water	intermittent release
Benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organisms	water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
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)
Aldehyde C-16	77-83-8	PNEC	23.3 mg/kg	aquatic organisms	water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.084 mg/l	aquatic organisms	water	intermittent release
Aldehyde C-16	77-83-8	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	8.4 µg/l	aquatic organisms	marine water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.214 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Aldehyde C-16	77-83-8	PNEC	0.021 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.038 mg/kg	terrestrial organisms	soil	short-term (single instance)
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)
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)
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 2-methylbutyrate	7452-79-1	PNEC	0.026 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ethyl 2-methylbutyrate	7452-79-1	PNEC	0.003 mg/l	aquatic organisms	marine water	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Ethyl 2-methylbutyrate	7452-79-1	PNEC	0.3 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl 2-methylbutyrate	7452-79-1	PNEC	0.392 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethyl 2-methylbutyrate	7452-79-1	PNEC	0.039 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ethyl 2-methylbutyrate	7452-79-1	PNEC	0.063 mg/kg	terrestrial organisms	soil	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	2.15 mg/l	aquatic organisms	water	intermittent release
Phenethyl alcohol	60-12-8	PNEC	0.215 mg/l	aquatic organisms	freshwater	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.021 mg/l	aquatic organisms	marine water	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	1.454 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.145 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Phenethyl alcohol	60-12-8	PNEC	0.164 mg/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)
Benzyl acetate	140-11-4	PNEC	0.094 mg/kg	terrestrial organisms	soil	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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)
Aldehyde C-14	104-67-6	PNEC	1.019 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0.044 mg/l	aquatic organisms	water	intermittent release
Hexyl Acetate	142-92-7	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0.144 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0.014 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl Acetate	142-92-7	PNEC	0.026 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)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Ethyl butyrate	105-54-4	PNEC	0.173 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
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)
Geraniol	106-24-1	PNEC	0.108 $^{mg}/_{l}$	aquatic organisms	water	intermittent release
Geraniol	106-24-1	PNEC	0.011 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0.001 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Geraniol	106-24-1	PNEC	0.7 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0.115 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.017 $^{mg}/_{kg}$	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)
Allyl Caproate	123-68-2	PNEC	47.56 $^{mg}/_{kg}$	aquatic organisms	water	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Allyl Caproate	123-68-2	PNEC	1.17 µg/l	aquatic organisms	water	intermittent release
Allyl Caproate	123-68-2	PNEC	0.117 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	4.46 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.446 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.825 µg/kg	terrestrial organisms	soil	short-term (single instance)
Citral	5392-40-5	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citral	5392-40-5	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Citral	5392-40-5	PNEC	1.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citral	5392-40-5	PNEC	0.125 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citral	5392-40-5	PNEC	0.013 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citral	5392-40-5	PNEC	0.021 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	dark red
Odour	fruity
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	121 °C at 972.4 hPa
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	102 °C

Auto-ignition temperature	384 °C (auto-ignition temperature (liquids and gases))
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

Vapour pressure	10 kPa at 143.6 °C

Density and/or relative density

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

Particle characteristics	not relevant (liquid)

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).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Benzyl benzoate	120-51-4	oral	500 $^{mg}/_{kg}$
Phenethyl alcohol	60-12-8	oral	1,603 $^{mg}/_{kg}$
Allyl Caproate	123-68-2	oral	100 $^{mg}/_{kg}$
Allyl Caproate	123-68-2	dermal	820 $^{mg}/_{kg}$
Allyl Caproate	123-68-2	inhalation: vapour	3 $^{mg}/_{l}$/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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.

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 1,4-cyclohexa-nedicarboxylate	72903-27-6	LC50	7.1 $^{mg}/_{l}$	fish	96 h
diethyl 1,4-cyclohexa-nedicarboxylate	72903-27-6	EC50	82 $^{mg}/_{l}$	aquatic invertebrates	24 h
diethyl 1,4-cyclohexa-nedicarboxylate	72903-27-6	ErC50	86 $^{mg}/_{l}$	green algae (Selen-astrum capricornutum)	72 h
diethyl 1,4-cyclohexa-nedicarboxylate	72903-27-6	NOEC	25 $^{mg}/_{l}$	green algae (Selen-astrum 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 (Selen-astrum capricornutum)	72 h
Benzyl salicylate	118-58-1	NOEC	0.894 $^{mg}/_{l}$	aquatic invertebrates	48 h
Aldehyde C-16	77-83-8	LC50	4.2 $^{mg}/_{l}$	fish	96 h
Aldehyde C-16	77-83-8	EC50	52 $^{mg}/_{l}$	aquatic invertebrates	48 h

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Aldehyde C-16	77-83-8	ErC50	36 mg/l	green algae (Selenastrum capricornutum)	72 h
Aldehyde C-16	77-83-8	NOEC	3.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	LOEC	20 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
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 2-methylbutyrate	7452-79-1	LC50	>100 mg/l	fish	96 h
Ethyl 2-methylbutyrate	7452-79-1	ErC50	>100 mg/l	green algae (Selenastrum capricornutum)	72 h
Ethyl 2-methylbutyrate	7452-79-1	NOEC	>100 mg/l	green algae (Selenastrum capricornutum)	72 h
Phenethyl alcohol	60-12-8	LC50	<464 mg/l	fish	96 h
Phenethyl alcohol	60-12-8	EC50	287.2 mg/l	aquatic invertebrates	48 h
Phenethyl alcohol	60-12-8	ErC50	1.3 g/l	green algae (Selenastrum capricornutum)	72 h
Phenethyl alcohol	60-12-8	NOEC	100 mg/l	fish	96 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

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Benzyl acetate	140-11-4	LOEC	113 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
Hexyl Acetate	142-92-7	EC50	9.1 mg/l	aquatic invertebrates	48 h
Hexyl Acetate	142-92-7	ErC50	12 mg/l	green algae (Selenastrum capricornutum)	72 h
Hexyl Acetate	142-92-7	NOEC	0.84 mg/l	aquatic invertebrates	48 h
Hexyl Acetate	142-92-7	LOEC	1.6 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
Geraniol	106-24-1	LC50	22 mg/l	fish	96 h
Geraniol	106-24-1	EC50	10.8 mg/l	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13.1 mg/l	green algae (Selenastrum capricornutum)	72 h
Geraniol	106-24-1	NOEC	10 mg/l	fish	96 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
Allyl Caproate	123-68-2	LC50	0.201 mg/l	fish	24 h
Allyl Caproate	123-68-2	EC50	2 mg/l	aquatic invertebrates	48 h
Allyl Caproate	123-68-2	ErC50	>4.6 mg/l	green algae (Selenastrum capricornutum)	72 h

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Allyl Caproate	123-68-2	NOEC	0.158 mg/l	green algae (Selenastrum capricornutum)	72 h
Allyl Caproate	123-68-2	LOEC	0.505 mg/l	green algae (Selenastrum capricornutum)	72 h
Citral	5392-40-5	LC50	6.78 mg/l	fish	96 h
Citral	5392-40-5	EC50	6.8 mg/l	aquatic invertebrates	48 h
Citral	5392-40-5	ErC50	103.8 mg/l	green algae (Selenastrum capricornutum)	72 h
Citral	5392-40-5	NOEC	4.6 mg/l	fish	96 h
Neryl acetate	141-12-8	LC50	6 mg/l	fish	96 h
Neryl acetate	141-12-8	EC50	10.68 mg/l	aquatic invertebrates	24 h
Neryl acetate	141-12-8	ErC50	4.9 mg/l	green algae (Selenastrum capricornutum)	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	EC50	840 mg/l	microorganisms	3 h
diethyl 1,4-cyclohexanedicarboxylate	72903-27-6	NOEC	320 mg/l	microorganisms	3 h
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
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
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 2-methylbutyrate	7452-79-1	EC50	22.53 mg/l	aquatic invertebrates	21 d

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ethyl 2-methylbutyrate	7452-79-1	NOEC	1.3 mg/l	aquatic invertebrates	21 d
Ethyl 2-methylbutyrate	7452-79-1	LOEC	3.6 mg/l	aquatic invertebrates	21 d
Phenethyl alcohol	60-12-8	EC50	>100 mg/l	microorganisms	3 h
Phenethyl alcohol	60-12-8	NOEC	100 mg/l	microorganisms	3 h
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
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
Hexyl Acetate	142-92-7	EC50	1,000 mg/l	microorganisms	30 min
Hexyl Acetate	142-92-7	NOEC	100 mg/l	microorganisms	30 min
Ethyl butyrate	105-54-4	NOEC	1.483 mg/l	fish	28 d
Geraniol	106-24-1	EC50	70 mg/l	microorganisms	30 min
Citral	5392-40-5	EC50	160 mg/l	microorganisms	30 min
Neryl acetate	141-12-8	EC50	≥1,000 mg/l	microorganisms	3 h
Neryl acetate	141-12-8	NOEC	≥1,000 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Benzyl salicylate	118-58-1	oxygen depletion	93 %	28 d		ECHA
Aldehyde C-16	77-83-8	oxygen depletion	11 %	5 d		ECHA
Linalool	78-70-6	oxygen depletion	40.9 %	5 d		ECHA

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Benzyl benzoate	120-51-4	oxygen depletion	94 %	28 d		ECHA
Ethyl 2-methylbutyrate	7452-79-1	DOC removal	>37 – <39 %	7 d		ECHA
Benzyl acetate	140-11-4	carbon dioxide generation	100.9 %	28 d		ECHA
Aldehyde C-14	104-67-6	oxygen depletion	16 %	1 d		ECHA
Hexyl Acetate	142-92-7	oxygen depletion	66 %	28 d		ECHA
Ethyl butyrate	105-54-4	oxygen depletion	50 %	42 d		ECHA
Geraniol	106-24-1	DOC removal	90 – 100 %	3 d		ECHA
Geranyl acetate	105-87-3	oxygen depletion	>70 %	28 d		ECHA
Allyl Caproate	123-68-2	oxygen depletion	19 %	2 d		ECHA
Citral	5392-40-5	oxygen depletion	>90 %	28 d		ECHA
Neryl acetate	141-12-8	oxygen depletion	90 %	28 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 1,4-cyclohexanedicarboxylate	72903-27-6		2.46 (pH value: 6, 30 °C)	
Benzyl salicylate	118-58-1		4 (35 °C)	
Aldehyde C-16	77-83-8		2.4 (25 °C)	
Linalool	78-70-6		2.9 (pH value: 7, 20 °C)	
Benzyl benzoate	120-51-4	193.4	3.97 (25 °C)	
Ethyl 2-methylbutyrate	7452-79-1		2	

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Phenethyl alcohol	60-12-8		0.8 (pH value: 7, 20 °C)	
Benzyl acetate	140-11-4	8	1.96 (pH value: 7, 25 °C)	
Aldehyde C-14	104-67-6		3.6 (25 °C)	
Hexyl Acetate	142-92-7		3.3 (30 °C)	
Ethyl butyrate	105-54-4	8	2.433 (pH value: 6.68, 25 °C)	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6		2.34	
Geraniol	106-24-1		2.6 (25 °C)	
Geranyl acetate	105-87-3		4.04	
Allyl Caproate	123-68-2	59.2	3.191 (pH value: ~5, 20 °C)	
Citral	5392-40-5	89.72	2.76 (25 °C)	
Neryl acetate	141-12-8		3.98 (pH value: 7.2, 37 °C)	

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 ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 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)	diethyl 1,4-cyclohexanedicarboxylate, 2-t-Butylcyclohexyl Acetate

14.3 Transport hazard class(es)

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)	diethyl 1,4-cyclohexanedicarboxylate, 2-t-Butylcyclohexyl Acetate

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: diethyl 1,4-cyclohexanedicarboxylate, 2-t-Butylcyclohexyl Acetate), 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
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: diethyl 1,4-cyclohexanedicarboxylate, 2-t-Butylcyclohexyl Acetate), 9, III
Marine pollutant	yes (hazardous to the aquatic environment) (diethyl 1,4-cyclohexanedicarboxylate)
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: diethyl 1,4-cyclohexanedicarboxylate, 2-t-Butylcyclohexyl Acetate), 9, III
Environmental hazards	yes (hazardous to the aquatic environment)
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
Phenethyl alcohol		a)	
Citral		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

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 Concord Cranberry	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
Hexyl Acetate	flammable / pyrophoric		40
Ethyl butyrate	flammable / pyrophoric		40
Ethyl 2-methylbutyrate	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	not 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)

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
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals 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.

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Version number: GHS 5.0
Replaces version of: 2022-10-25 (GHS 4)

Revision: 2023-07-05

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relev-ant
2.2		Labelling of packages where the contents do not exceed 125 ml	yes
2.2		- Signal word: warning	yes
2.2		- Hazard pictogram(s): change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2		- Contains: Benzyl salicylate, Aldehyde C-16, Linalool, 2,4-di-methylcyclohex-3-ene-1-carbaldehyde, Geraniol, Neryl acetate, Citral, Geranyl acetate	yes
2.3	Other hazards: of no significance	Other hazards	yes
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	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 ≥ 0,1%.	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relev-ant
12.6	Endocrine disrupting properties: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
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
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

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Abbr.	Descriptions of used abbreviations
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
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
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
TWA	Time-weighted average

Abbr.	Descriptions of used abbreviations
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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
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.