

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

California Scents Palms Fresh Linen

Version number: GHS 10.0 Revision: 2023-07-12 Replaces version of: 2022-12-08 (GHS 9)

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

1.1 Product identifier

Trade name California Scents Palms Fresh Linen

Alternative number(s) 091400041083

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 sub- mitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health pro- fessionals.

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 state- ment
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.45	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.

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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.

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.

.....

naphthyl)ethan-1-one, Dorisyl, D-Limonene

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-

Labelling of packages where the contents do not exceed 125 ml

- Signal word warning

- Hazard pictogram(s)

Warning. GHS07, GHS09

- Hazardous ingredients for labelling



- 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 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Dorisyl, D-Li-

monene

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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
1-(1,2,3,4,5,6,7,8-octahy- dro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one	CAS No 54464-57-2	5-<10	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 1 / H410	<u>(!)</u>
,,,	EC No 259-174-3			· ·
Alpha-Iso-Methylionone	CAS No 7388-22-9 127-51-5	5 – < 10	Aquatic Chronic 2 / H411	¥ <u></u>
	EC No 204-846-3			
Methyl Ionone	CAS No 127-51-5	1-<5	Aquatic Chronic 2 / H411	*
	EC No 204-846-3			•
Hexamethylindanopyran	CAS No 1222-05-5	1-<5	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	***
	EC No 214-946-9			•
	Index No 603-212-00-7			
Dorisyl	CAS No 32210-23-4	1 - < 5	Skin Sens. 1B / H317	<u>(!)</u>
	EC No 250-954-9			~

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Tricyclodecenyl acetate	CAS No 5413-60-5	1-<5	Aquatic Chronic 3 / H412	
	EC No 226-501-6			
D-Limonene	CAS No 5989-27-5	1-<5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
	EC No 227-813-5		Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412	***
	Index No 601-029-00-7		Aquatic cirroffic 37 11412	•
2-t-Butylcyclohexyl Acetate	CAS No 88-41-5	1-<5	Aquatic Chronic 2 / H411	\$
	EC No 201-828-7			•
Tricyclodecenyl propionate	CAS No 17511-60-3	1-<5	Eye Irrit. 2 / H319 Aquatic Chronic 2 / H411	<u>(!)</u>
	EC No 241-514-7			* *

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.

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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, Foam, ABC-powder

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, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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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. Ground/bond container and receiving equipment.
- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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

Managing of associated risks

- Explosive atmospheres
 Removal of dust deposits.
- 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)

Coun try	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Nota tion	Sourc e
GB	cellulose	9004-34- 6	WEL		10		20			i	EH40/ 2005
GB	cellulose	9004-34- 6	WEL		4					r	EH40/ 2005

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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 sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	DNEL	8.22 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	DNEL	0.375 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Methyl Ionone	127-51-5	DNEL	8.22 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Methyl Ionone	127-51-5	DNEL	0.375 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexamethylindan- opyran	1222-05-5	DNEL	13.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexamethylindan- opyran	1222-05-5	DNEL	36.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Tricyclodecenyl acet- ate	5413-60-5	DNEL	0.968 mg/ m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Tricyclodecenyl acet- ate	5413-60-5	DNEL	0.849 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
D-Limonene	5989-27-5	DNEL	66.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
D-Limonene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	PNEC	1.43 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	PNEC	0.143 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	PNEC	0.443 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	PNEC	44.3 ^{µg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	PNEC	87.8 ^{µg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	1.43 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	0.143 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	0.443 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	44.3 ^{µg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Methyl Ionone	127-51-5	PNEC	87.8 ^{µg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Hexamethylindan- opyran	1222-05-5	PNEC	6.8 ^{µg} / _I	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)
Dorisyl	32210-23-4	PNEC	5.3 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.53 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Dorisyl	32210-23-4	PNEC	12.2 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Dorisyl	32210-23-4	PNEC	2.01 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.21 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	66.67 ^{mg} / _{kg}	aquatic organ- isms	water	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.42 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Dorisyl	32210-23-4	PNEC	53 ^{µg} / _l	aquatic organ- isms	water	intermittent re- lease
Tricyclodecenyl acet- ate	5413-60-5	PNEC	0.158 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Tricyclodecenyl acet- ate	5413-60-5	PNEC	0.016 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Tricyclodecenyl acet- ate	5413-60-5	PNEC	2.45 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Tricyclodecenyl acet- ate	5413-60-5	PNEC	1.951 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Tricyclodecenyl acet- ate	5413-60-5	PNEC	1.951 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Tricyclodecenyl acet- ate	5413-60-5	PNEC	0.903 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
D-Limonene	5989-27-5	PNEC	14 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
D-Limonene	5989-27-5	PNEC	1.4 ^{µg} / _I	aquatic organ- isms	marine water	short-term (single instance)
D-Limonene	5989-27-5	PNEC	1.8 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
D-Limonene	5989-27-5	PNEC	3.85 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
D-Limonene	5989-27-5	PNEC	0.385 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
D-Limonene	5989-27-5	PNEC	0.763 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)

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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	solid
Colour	light blue - yellow-orange
Odour	characteristic
Melting point/freezing point	not determined

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Boiling point or initial boiling point and boiling range	147 °C at 960 hPa
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	66 °C
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available

Vapour pressure	200 Pa at 298 K
vapour pressure	200 T d dt 250 K

Density and/or relative density

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

Particle characteristics	no data available
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9.2 Other information

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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.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

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.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

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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
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	LC50	10.9 ^{mg} / _l	fish	96 h
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	EC50	1.428 ^{mg} / _l	fish	96 h
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	ErC50	>20 ^{mg} / _l	green algae (Selen- astrum capricornutum)	72 h
Alpha-Iso-Methyl- ionone	7388-22-9 127-51-5	NOEC	7.8 ^{mg} / _l	fish	96 h
Methyl Ionone	127-51-5	LC50	10.9 ^{mg} / _l	fish	96 h
Methyl Ionone	127-51-5	EC50	1.428 ^{mg} / _l	fish	96 h
Methyl Ionone	127-51-5	ErC50	>20 ^{mg} / _l	green algae (Selen- astrum capricornutum)	72 h

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Methyl Ionone	127-51-5	NOEC	7.8 ^{mg} / _l	fish	96 h
Hexamethylindan- opyran	1222-05-5	LC50	0.95 ^{mg} / _l	fish	96 h
Hexamethylindan- opyran	1222-05-5	EC50	0.194 ^{mg} / _l	aquatic invertebrates	48 h
Hexamethylindan- opyran	1222-05-5	ErC50	>0.854 ^{mg} / _l	green algae (Selen- astrum capricornutum)	72 h
Hexamethylindan- opyran	1222-05-5	NOEC	0.201 ^{mg} / _l	green algae (Selen- astrum capricornutum)	72 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 (Selen- astrum capricornutum)	72 h
Dorisyl	32210-23-4	NOEC	6.8 ^{mg} / _l	green algae (Selen- astrum capricornutum)	72 h
Tricyclodecenyl acetate	5413-60-5	LC50	18.05 ^{mg} / _l	fish	96 h
Tricyclodecenyl acetate	5413-60-5	EC50	53.81 ^{mg} / _l	aquatic invertebrates	48 h
Tricyclodecenyl acetate	5413-60-5	NOEC	1.706 ^{mg} / _l	green algae (Selen- astrum capricornutum)	72 h
D-Limonene	5989-27-5	LC50	720 ^{µg} / _I	fish	96 h
D-Limonene	5989-27-5	EC50	688 ^{µg} / _I	fish	96 h
D-Limonene	5989-27-5	ErC50	0.32 ^{mg} / _l	green algae (Selen- astrum capricornutum)	72 h
D-Limonene	5989-27-5	NOEC	0.09 ^{mg} / _l	green algae (Selen- astrum capricornutum)	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexamethylindan- opyran	1222-05-5	LC50	>0.14 ^{mg} / _l	fish	36 d
Hexamethylindan- opyran	1222-05-5	EC50	0.282 ^{mg} / _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
Hexamethylindan- opyran	1222-05-5	NOEC	0.068 ^{mg} / _l	fish	36 d
Hexamethylindan- opyran	1222-05-5	LOEC	0.075 ^{mg} / _l	aquatic invertebrates	5.5 d
Dorisyl	32210-23-4	EC50	302 ^{mg} / _l	microorganisms	3 h
Tricyclodecenyl acetate	5413-60-5	LC50	346.7 ^{mg} / _l	fish	14 d
D-Limonene	5989-27-5	EC50	<0.67 ^{mg} / _l	fish	8 d
D-Limonene	5989-27-5	LC50	0.41 ^{mg} / _l	fish	8 d
D-Limonene	5989-27-5	NOEC	0.37 ^{mg} / _l	fish	8 d
D-Limonene	5989-27-5	LOEC	0.67 ^{mg} / _l	fish	8 d

12.2 Persistence and degradability

Degradability of components of the mixture

Name of sub- stance	CAS No	Process	Degradation rate	Time	Method	Source
Alpha-Iso- Methylionone	7388-22-9 127-51-5	oxygen deple- tion	42.51 %	28 d		ECHA
Methyl Ionone	127-51-5	oxygen deple- tion	42.51 %	28 d		ECHA
Hexamethyl- indanopyran	1222-05-5	carbon dioxide generation	1 %	28 d		ECHA
Dorisyl	32210-23-4	carbon dioxide generation	75 %	29 d		ECHA
D-Limonene	5989-27-5	carbon dioxide generation	58.8 %	14 d		ECHA
D-Limonene	5989-27-5	oxygen deple- tion	80 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

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Bioaccumulative potential of components of the mixture

Name of substance	CAS No	ВСБ	Log KOW	BOD5/COD
Alpha-Iso-Methylionone	7388-22-9 127-51-5		4.288 (pH value: 4.7, 25 °C)	
Methyl Ionone	127-51-5		4.288 (pH value: 4.7, 25 °C)	
Hexamethylindanopyran	1222-05-5	1,635	5.3 (pH value: 7, 25 °C)	
Dorisyl	32210-23-4	234	4.8 (25 °C)	
Tricyclodecenyl acetate	5413-60-5	35	0.924 (pH value: 5.92, 35 °C)	
D-Limonene	5989-27-5		4.38 (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 $\geq 0.1\%$.

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.

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SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID UN 3077
IMDG-Code UN 3077
ICAO-TI UN 3077

14.2 UN proper shipping name

ADR/RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.

ICAO-TI Environmentally hazardous substance, solid, n.o.s.

Technical name (hazardous ingredients) 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-

naphthyl)ethan-1-one, Methyl Ionone

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)

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Methyl Ionone

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

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IATA: special provision A197, DOT

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

Particulars in the transport document UN3077, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, SOLID, N.O.S., (contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-

one, Methyl Ionone), 9, III, (-)

Classification code M7

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 kg
Transport category (TC) 3
Tunnel restriction code (TRC) Hazard identification No 90
Emergency Action Code 22

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

Classification code M7

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 kg
Transport category (TC) 3
Hazard identification No 90

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International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration UN3077, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, SOLID, N.O.S., (contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-

one, Methyl Ionone), 9, III

Marine pollutant Yes (hazardous to the aquatic environment) (1-(1,2,3,4,5,6,7,8-oc-

tahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)

Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 966, 967, 969

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
EmS F-A, S-F

Stowage category A

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

Particulars in the shipper's declaration UN3077, Environmentally hazardous substance,

solid, n.o.s., (contains: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Methyl

Ionone), 9, III

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A179, 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

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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)	

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
Alpha-Iso-Methylionone	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra- methyl-2-naphthyl)ethan-1-one	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3
2-t-Butylcyclohexyl Acetate	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3
Hexamethylindanopyran	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3
Methyl Ionone	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3

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Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
D-Limonene	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3
D-Limonene	flammable / pyrophoric		40
Tricyclodecenyl propionate	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3
Tricyclodecenyl acetate	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3
Dorisyl	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/2008/EC		3

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	not 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	all ingredients are listed
TW	TCSI	not all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend

Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) AIIC CICR

CSCL-ENCS

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Legend

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

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

NZIoC

New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS) **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- relev- ant
2.2	- Hazardous ingredients for labelling: Patchouli ethanone, Dorisyl, D-Limonene	- Hazardous ingredients for labelling: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one, Dorisyl, D-Limonene	yes
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: 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one, Dorisyl, D-Limonene	yes
2.3	Other hazards: This material is combustible, but will not ignite readily.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a con- centration of ≥ 0,1%.	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-
			relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	yes
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
9.1	Decomposition temperature: Decomposition onset temperature:	Decomposition temperature: not relevant	yes
12.1		Aquatic toxicity (acute) of components of the mix- ture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.2		Degradability 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 $\geq 0,1\%$.	yes
12.6	Endocrine disrupting properties: Information on this property is not available.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	yes
14.2	Technical name (hazardous ingredients): Patchouli ethanone, Methyl Ionone	Technical name (hazardous ingredients): 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one, Methyl Ionone	yes
14.5	Environmentally hazardous substance (aquatic environment): Patchouli ethanone, Methyl Ionone	Environmentally hazardous substance (aquatic environment): 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Methyl Ionone	yes
14.7	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (contains: Patchouli eth- anone, Methyl Ionone), 9, III, (-)	Particulars in the transport document: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (contains: 1- (1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one, Methyl Ionone), 9, III, (-)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.7	Particulars in the shipper's declaration: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (contains: Patchouli eth- anone, Methyl Ionone), 9, III	Particulars in the shipper's declaration: UN3077, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, SOLID, N.O.S., (contains: 1- (1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one, Methyl Ionone), 9, III	yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment) (Patchouli ethanone)	Marine pollutant: yes (hazardous to the aquatic environment) (1- (1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one)	yes
14.7	Particulars in the shipper's declaration: UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: Patchouli ethanone, Methyl Ionone), 9, III	Particulars in the shipper's declaration: UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: 1-(1,2,3,4,5,6,7,8-octahy- dro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Methyl Ionone), 9, III	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
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
Asp. Tox.	Aspiration hazard
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)

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Abbr.	Descriptions of used abbreviations
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
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

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Abbr.	Descriptions of used abbreviations
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
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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Disclaimer

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

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