

acc. to 29 CFR 1910.1200 App D

California Scents Palms Citrus Splash

Version number: 5.1 Revision: 2023-09-11 Replaces version of: 2022-07-15 (4)

SECTION 1: Identification

1.1 Product identifier

Trade name California Scents Palms Citrus Splash

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 Manufacturing, Inc. 25225 Detroit Rd. Westlake OH 44145 United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)

e-mail: Autocare.regulatory@energizer.com

Website: http://data.energizer.com

1.4 Emergency telephone number

Emergency information service

FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585 This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	2	Repr. 2	H361

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word warning

- Pictograms

GHS07, GHS08



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- Hazard statements

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

- Precautionary statements

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

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing mist/vapors.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P308+P313 If exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regula-

tions.

- Hazardous ingredients for labelling

citral, p-mentha-1,4-diene, (R)-p-mentha-1,8-diene, 3,7-dimethylnona-1,6-dien-3-ol, Linalyl acetate, β -pinene, p-mentha-1,4(8)-diene, Cineole, 4-(hep-

tyloxy)-3-methylbutanal

2.3 Other hazards

Hazards not otherwise classified

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic). Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic). Causes mild skin irritation (GHS category 3: irritant to skin).

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

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Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
citral	CAS No 5392-40-5	1-<5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	<u>(1)</u>
(R)-p-mentha-1,8-diene	CAS No 5989-27-5	1-<5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Linalyl acetate	CAS No 115-95-7	1-<5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	<u>(1)</u>
3,7-dimethylnona-1,6-dien- 3-ol	CAS No 10339-55-6	1-<5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	<u>(1)</u>
p-mentha-1,4-diene	CAS No 99-85-4	<1	Repr. 2 / H361 Flam. Liq. 3 / H226	(3)
4-(heptyloxy)-3-methyl- butanal	CAS No 1093653-57-6	<1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	<u>(1)</u>
β-pinene	CAS No 127-91-3 18172-67-3	<1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
p-mentha-1,4(8)-diene	CAS No 586-62-9	<1	Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Flam. Liq. 4 / H227	(1)
Cineole	CAS No 470-82-6	<1	Skin Sens. 1B / H317 Flam. Liq. 3 / H226	(1)

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.

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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: Fire-fighting 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. Coordinate 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 vapors/dust/aerosols/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.

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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.

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.

7.3 Specific end use(s)

See section 16 for a general overview.

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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
US	β-pinene	127-91-3	TLV®	20							AC- GIH® 2023
US	citral	5392-40- 5	TLV®	5						iv, H	AC- GIH® 2023
US	cellulose	9004-34- 6	TLV®		10						AC- GIH® 2023
US	cellulose	9004-34- 6	REL		10 (10 h)					i	NIOSH REL
US	cellulose	9004-34- 6	PEL		15					i, dust	29 CFR 1910.1 000
US	cellulose	9004-34- 6	REL		5 (10 h)					r	NIOSH REL
US	cellulose	9004-34- 6	PEL		5					r, dust	29 CFR 1910.1 000

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

dust

Н absorbed through the skin inhalable fraction

iv inhalable fraction and vapor

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
citral	5392-40-5	DNEL	9 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

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Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
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 ef- fects
(R)-p-mentha-1,8- diene	5989-27-5	DNEL	66.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8- diene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.75 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalyl acetate	115-95-7	DNEL	236.2 μg/ cm²	human, dermal	worker (industry)	chronic - local ef- fects
Linalyl acetate	115-95-7	DNEL	236.2 μg/ cm²	human, dermal	worker (industry)	acute - local effects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	18 mg/m³	human, inhalatory	worker (industry)	acute - systemic ef- fects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	2.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	DNEL	5.5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic ef- fects
p-mentha-1,4-diene	99-85-4	DNEL	2.939 mg/ m³	human, inhalatory	worker (industry)	chronic - systemic effects
p-mentha-1,4-diene	99-85-4	DNEL	0.833 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
β-pinene	127-91-3 18172-67-3	DNEL	5.69 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
β-pinene	127-91-3 18172-67-3	DNEL	0.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
β-pinene	127-91-3 18172-67-3	DNEL	54 μg/cm²	human, dermal	worker (industry)	chronic - local ef- fects
p-mentha-1,4(8)- diene	586-62-9	DNEL	0.52 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

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Name of sub- stance	CAS No	End- point	Threshold level	Protection goal, route of expos- ure	Used in	Exposure time
p-mentha-1,4(8)- diene	586-62-9	DNEL	3.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Cineole	470-82-6	DNEL	7.05 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Cineole	470-82-6	DNEL	2 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
citral	5392-40-5	PNEC	0.007 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
citral	5392-40-5	PNEC	0.001 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
citral	5392-40-5	PNEC	1.6 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
citral	5392-40-5	PNEC	0.125 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
citral	5392-40-5	PNEC	0.013 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
citral	5392-40-5	PNEC	0.021 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	14 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	1.4 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	1.8 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	3.85 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	0.385 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	0.763 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)

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Relevant PNECs of components of the mixture

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Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Linalyl acetate	115-95-7	PNEC	0.11 ^{mg} / _l	aquatic organ- isms	water	intermittent re- lease
Linalyl acetate	115-95-7	PNEC	0.011 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.001 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	1 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.609 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.061 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.115 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	8.53 ^{mg} / _{kg}	aquatic organ- isms	water	short-term (single instance)
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	0.23 ^{mg} / _l	aquatic organ- isms	water	intermittent re- lease
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	0.023 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	0.002 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	0.223 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	0.022 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
3,7-dimethylnona- 1,6-dien-3-ol	10339-55-6	PNEC	0.031 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
p-mentha-1,4-diene	99-85-4	PNEC	0.003 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
p-mentha-1,4-diene	99-85-4	PNEC	0 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
p-mentha-1,4-diene	99-85-4	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)

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Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
p-mentha-1,4-diene	99-85-4	PNEC	0.49 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
p-mentha-1,4-diene	99-85-4	PNEC	0.049 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
p-mentha-1,4-diene	99-85-4	PNEC	0.423 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	13.1 ^{mg} / _{kg}	aquatic organ- isms	water	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	1.004 ^{µg} / _I	aquatic organ- isms	freshwater	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.1 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	3.26 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.337 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.034 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.067 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
p-mentha-1,4(8)- diene	586-62-9	PNEC	0.634 ^{µg} / _I	aquatic organ- isms	freshwater	short-term (single instance)
p-mentha-1,4(8)- diene	586-62-9	PNEC	0.0634 ^{µg} / _I	aquatic organ- isms	marine water	short-term (single instance)
p-mentha-1,4(8)- diene	586-62-9	PNEC	0.2 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
p-mentha-1,4(8)- diene	586-62-9	PNEC	147 ^{µg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
p-mentha-1,4(8)- diene	586-62-9	PNEC	14.7 ^{µg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
p-mentha-1,4(8)- diene	586-62-9	PNEC	6.34 ^{µg} / _l	aquatic organ- isms	water	intermittent re- lease
p-mentha-1,4(8)- diene	586-62-9	PNEC	10.31 ^{mg} / _{kg}	aquatic organ- isms	water	short-term (single instance)
p-mentha-1,4(8)- diene	586-62-9	PNEC	29.1 ^{µg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)

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Name of sub- stance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Cineole	470-82-6	PNEC	0.57 ^{mg} / _l	aquatic organ- isms	water	intermittent re- lease
Cineole	470-82-6	PNEC	57 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Cineole	470-82-6	PNEC	5.7 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Cineole	470-82-6	PNEC	10 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Cineole	470-82-6	PNEC	1.425 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Cineole	470-82-6	PNEC	0.142 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Cineole	470-82-6	PNEC	0.25 ^{mg} / _{kg}	terrestrial organ- isms	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)

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- 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

Appearance

Physical state	solid
Color	not determined
Odor	characteristic

Other safety parameters

pH (value)	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	215.3 °C at 1,013 mbar
Flash point	51 °C at 1 atm
Evaporation rate	Not determined
Flammability (solid, gas)	this material is combustible, but will not ignite readily
Explosion limits of dust clouds	not determined
Vapor pressure	200 Pa at 298 K
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available

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Solubility(ies)	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	225 °C
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidizing properties	none
Other information	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

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

Oxidizers

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.

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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 OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

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

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
(R)-p-mentha-1,8-diene	5989-27-5	3	

Legend

Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects. Harmful 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
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	algae	72 h
citral	5392-40-5	NOEC	4.6 ^{mg} / _l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	LC50	720 ^{µg} / _I	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	688 ^{µg} / _I	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	ErC50	0.32 ^{mg} / _l	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.09 ^{mg} / _l	algae	48 h
Linalyl acetate	115-95-7	ErC50	62 ^{mg} / _l	algae	72 h
Linalyl acetate	115-95-7	LC50	11 ^{mg} / _l	fish	96 h
Linalyl acetate	115-95-7	EC50	59 ^{mg} / _l	aquatic invertebrates	48 h
Linalyl acetate	115-95-7	NOEC	25 ^{mg} / _l	aquatic invertebrates	48 h
3,7-dimethylnona-1,6- dien-3-ol	10339-55-6	LC50	24 ^{mg} / _l	fish	24 h
3,7-dimethylnona-1,6- dien-3-ol	10339-55-6	EC50	23 ^{mg} / _l	aquatic invertebrates	48 h
3,7-dimethylnona-1,6- dien-3-ol	10339-55-6	ErC50	25.1 ^{mg} / _l	algae	72 h
3,7-dimethylnona-1,6- dien-3-ol	10339-55-6	NOEC	5 ^{mg} / _l	fish	96 h
3,7-dimethylnona-1,6- dien-3-ol	10339-55-6	LOEC	16 ^{mg} / _I	fish	96 h
p-mentha-1,4-diene	99-85-4	EC50	2.792 ^{mg} / _l	fish	96 h
β-pinene	127-91-3 18172-67-3	LC50	0.68 ^{mg} / _l	fish	96 h

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
β-pinene	127-91-3 18172-67-3	EC50	1.09 ^{mg} / _l	aquatic invertebrates	48 h
β-pinene	127-91-3 18172-67-3	ErC50	0.7 ^{mg} / _l	algae	72 h
p-mentha-1,4(8)-diene	586-62-9	LC50	0.805 ^{mg} / _l	fish	96 h
p-mentha-1,4(8)-diene	586-62-9	EC50	0.634 ^{mg} / _l	aquatic invertebrates	48 h
p-mentha-1,4(8)-diene	586-62-9	ErC50	0.692 ^{mg} / _l	algae	72 h
Cineole	470-82-6	LC50	57 ^{mg} / _l	fish	96 h
Cineole	470-82-6	EC50	>100 ^{mg} / _l	aquatic invertebrates	48 h
Cineole	470-82-6	ErC50	>74 ^{mg} / _l	algae	72 h
Cineole	470-82-6	NOEC	32 ^{mg} / _l	fish	96 h
4-(heptyloxy)-3-methyl- butanal	1093653-57-6	LC50	1.87 ^{mg} / _l	fish	96 h
4-(heptyloxy)-3-methyl- butanal	1093653-57-6	EC50	1.8 ^{mg} / _l	aquatic invertebrates	48 h
4-(heptyloxy)-3-methyl- butanal	1093653-57-6	ErC50	3.22 ^{mg} / _l	algae	72 h
4-(heptyloxy)-3-methyl- butanal	1093653-57-6	NOEC	0.93 ^{mg} / _l	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
citral	5392-40-5	EC50	160 ^{mg} / _I	microorganisms	30 min
(R)-p-mentha-1,8-diene	5989-27-5	EC50	<0.67 ^{mg} / _l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LC50	0.41 ^{mg} / _l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.37 ^{mg} / _l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LOEC	0.67 ^{mg} / _l	fish	8 d
Linalyl acetate	115-95-7	LC50	11.14 ^{mg} / _l	fish	20 h
Linalyl acetate	115-95-7	NOEC	>25.7 ^{mg} / _l	microorganisms	28 d

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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
3,7-dimethylnona-1,6- dien-3-ol	10339-55-6	EC50	59 ^{mg} / _l	aquatic invertebrates	24 h
3,7-dimethylnona-1,6- dien-3-ol	10339-55-6	LC50	28 ^{mg} / _l	fish	3 h
p-mentha-1,4-diene	99-85-4	EC50	>1,000 ^{mg} / _l	microorganisms	3 h
β-pinene	127-91-3 18172-67-3	EC50	326 ^{mg} / _l	microorganisms	3 h
p-mentha-1,4(8)-diene	586-62-9	EC50	69 ^{mg} / _l	microorganisms	3 h
Cineole	470-82-6	EC50	>100 ^{mg} / _l	microorganisms	3 h
4-(heptyloxy)-3-methyl- butanal	1093653-57-6	EC50	100 ^{mg} / _l	microorganisms	30 min

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

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/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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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 not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the danger-

ous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 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

DOT

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

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

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed (ACTIVE) or exempt from

listing

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

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- Specific Toxic Chemical Listings (EPCRA Section 313) none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4) none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists	
Cellulose	9004-34-6	substrate		
citral	5392-40-5	fragrance	EU Fragrance Allergens	
(R)-p-mentha-1,8-diene	5989-27-5	fragrance	EU Fragrance Allergens	
Linalyl acetate	115-95-7	fragrance		
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	fragrance		
p-mentha-1,4-diene	99-85-4	fragrance		
Terpineol	98-55-5 118-60-5	fragrance		
decanal	112-31-2	fragrance		
β-pinene	127-91-3 18172-67-3	fragrance		
p-mentha-1,4(8)-diene	586-62-9	fragrance		
Cineole	470-82-6	fragrance		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl- indeno[5,6-c]pyran	1222-05-5	fragrance		
beta-Myrcene (Natural Source)	123-35-3	fragrance	IARC Carcinogens - 2B	
α-pinene	80-56-8	antimicrobial agent		
Citronellal	106-23-0	fragrance		
p-cymene	99-87-6	fragrance		
Geraniol	106-24-1	fragrance	EU Fragrance Allergens	
Linalool	78-70-6	fragrance	ce EU Fragrance Allergens	
Citronellol	106-22-9	fragrance	EU Fragrance Allergens	

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- Toxic or Hazardous Substance List (MA-TURA) none of the ingredients are listed
- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
(R)-p-mentha-1,8-diene	138-86-3		F2
p-mentha-1,4(8)-diene	586-62-9		F3

Legend

F2 Flammable - Second Degree F3 Flammable - Third Degree

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
beta-Myrcene	123-35-3		cancer

Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	2	material that must be moderately heated or exposed to relatively high ambient tem- peratures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

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Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient tem- peratures before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not 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	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	not all ingredients are listed

Legend

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

DSL

ECSI

IECSC

INSQ National Inventory of Chemical Substances

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

Korea Existing Chemicals Inventory KECI

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Legend

NCI National Chemical Inventory NDSL Non-domestic Substances List (NDSL) NZIoC

New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) REACH registered substances **PICCS**

REACH Req.

Taiwan Chemical Substance Inventory TCSI

Toxic Substance Control Act **TSCA**

15.2 Chemical Safety Assessment

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

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		- Precautionary statements: change in the listing (table)	yes
2.3		Hazards not otherwise classified: change in the listing (table)	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
6.2	Environmental precautions: Keep away from drains, surface and ground wa- ter. Retain contaminated washing water and dis- pose of it.	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.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
12.1	Toxicity: Harmful to aquatic life with long lasting effects.	Toxicity: Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.	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

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
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
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
14.3	Transport hazard class(es): not assigned	Transport hazard class(es): none	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed	Toxic Substance Control Act (TSCA): all ingredients are listed (ACTIVE) or exempt from listing	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2023	From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Asp. Tox.	Aspiration hazard
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
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
EINECS	European Inventory of Existing Commercial Chemical Substances

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Abbr.	Descriptions of used abbreviations
ELINCS	European List of Notified Chemical Substances
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
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
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
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit

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Abbr.	Descriptions of used abbreviations
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). 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 vapor.
H227	Combustible liquid.
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.
H361	Suspected of damaging fertility or the unborn child.

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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