



Safety Data Sheet

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

California Scents Vent Stick Monterey Vanilla

Version number: GHS 7.0
Replaces version of: 2023-01-23 (GHS 6)

Revision: 2023-07-12

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

1.1 Product identifier

Trade name **California Scents Vent Stick Monterey Vanilla**
Alternative number(s) 091400042004, 091400041441

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
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

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



- Hazard statements

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.

- Precautionary statements

P101

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

P102

Keep out of reach of children.

P302+P352

IF ON SKIN: Wash with plenty of water.

P333+P313

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

P501

Dispose of contents/container in accordance with national regulations.

- Hazardous ingredients for labelling

Eugenol, Cinnamal, Piperonal, Coumarin, Caryophyllene, Anisyl acetate

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
Benzyl benzoate	CAS No 120-51-4 EC No 204-402-9	1 – < 5	Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	 








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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
	Index No 607-085-00-9			
Eugenol	CAS No 97-53-0 EC No 202-589-1	1 – < 5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Cinnamal	CAS No 104-55-2 EC No 203-213-9	1 – < 5	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412	
Piperonal	CAS No 120-57-0 EC No 204-409-7	1 – < 5	Skin Sens. 1B / H317	
Ethyl vanillin	CAS No 121-32-4 EC No 204-464-7	1 – < 5	Eye Irrit. 2 / H319	
Coumarin	CAS No 91-64-5 EC No 202-086-7	< 1	Acute Tox. 4 / H302 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412	
Anisyl acetate	CAS No 104-21-2 EC No 203-185-8	< 1	Skin Sens. 1B / H317	
Caryophyllene	CAS No 87-44-5 EC No 201-746-1	< 1	Skin Sens. 1B / H317 Asp. Tox. 1 / H304	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Benzyl benzoate	-	-	500 mg/kg	oral
Cinnamal	-	-	1,260 mg/kg	dermal
Coumarin	-	-	500 mg/kg	oral

For full text of abbreviations: see SECTION 16.



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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, 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.



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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.

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

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Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

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/ m ³]	STEL [ppm]	STEL [mg/ m ³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m ³]	Nota tion	Sourc e
GB	polyvinyl chloride	9002-86-2	WEL		10					i	EH40/ 2005
GB	polyvinyl chloride	9002-86-2	WEL		4					r	EH40/ 2005

Notation

Ceiling-C

i

r

STEL

TWA

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

inhalable fraction

respirable fraction

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

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

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
Benzyl benzoate	120-51-4	DNEL	14.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl benzoate	120-51-4	DNEL	70.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Benzyl benzoate	120-51-4	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Eugenol	97-53-0	DNEL	21.2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Eugenol	97-53-0	DNEL	6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Cinnamal	104-55-2	DNEL	2.513 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Cinnamal	104-55-2	DNEL	2.204 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Piperonal	120-57-0	DNEL	5.29 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Piperonal	120-57-0	DNEL	0.75 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethyl vanillin	121-32-4	DNEL	49 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Ethyl vanillin	121-32-4	DNEL	98 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Ethyl vanillin	121-32-4	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	6.78 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Anisyl acetate	104-21-2	DNEL	2.468 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Anisyl acetate	104-21-2	DNEL	0.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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)



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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
Benzyl benzoate	120-51-4	PNEC	0.204 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Benzyl benzoate	120-51-4	PNEC	0.406 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Eugenol	97-53-0	PNEC	11.3 µg/l	aquatic organ-isms	water	intermittent re-lease
Eugenol	97-53-0	PNEC	1.13 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Eugenol	97-53-0	PNEC	0.113 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Eugenol	97-53-0	PNEC	0.081 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.008 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.015 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Cinnamal	104-55-2	PNEC	1.004 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Cinnamal	104-55-2	PNEC	0.1004 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Cinnamal	104-55-2	PNEC	13.12 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Cinnamal	104-55-2	PNEC	159.2 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Cinnamal	104-55-2	PNEC	159.2 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Cinnamal	104-55-2	PNEC	0.0003333 mg/kg	aquatic organ-isms	water	short-term (single instance)
Cinnamal	104-55-2	PNEC	56.08 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Cinnamal	104-55-2	PNEC	1.004 mg/l	aquatic organ-isms	water	intermittent re-lease
Piperonal	120-57-0	PNEC	25 µg/l	aquatic organ-isms	water	intermittent re-lease
Piperonal	120-57-0	PNEC	2.5 µg/l	aquatic organ-isms	freshwater	short-term (single instance)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Piperonal	120-57-0	PNEC	0.25 µg/l	aquatic organisms	marine water	short-term (single instance)
Piperonal	120-57-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Piperonal	120-57-0	PNEC	11.95 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Piperonal	120-57-0	PNEC	1.2 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Piperonal	120-57-0	PNEC	0.84 µg/kg	terrestrial organisms	soil	short-term (single instance)
Ethyl vanillin	121-32-4	PNEC	0.118 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ethyl vanillin	121-32-4	PNEC	0.012 mg/l	aquatic organisms	marine water	short-term (single instance)
Ethyl vanillin	121-32-4	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl vanillin	121-32-4	PNEC	15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethyl vanillin	121-32-4	PNEC	1.5 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ethyl vanillin	121-32-4	PNEC	2.923 mg/kg	terrestrial organisms	soil	short-term (single instance)
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release
Coumarin	91-64-5	PNEC	19 µg/l	aquatic organisms	freshwater	short-term (single instance)
Coumarin	91-64-5	PNEC	1.9 µg/l	aquatic organisms	marine water	short-term (single instance)
Coumarin	91-64-5	PNEC	6.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Coumarin	91-64-5	PNEC	0.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.018 mg/kg	terrestrial organisms	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	brown - dark orange
Odour	Pleasant
Melting point/freezing point	not determined



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Boiling point or initial boiling point and boiling range	248 °C at 755 mmHg
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	93.33 °C
Auto-ignition temperature	>400 °C
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
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Vapour pressure	0.04 hPa at 25 °C
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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

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



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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.

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
Cinnamal	104-55-2	dermal	1,260 mg/kg
Coumarin	91-64-5	oral	500 mg/kg



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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 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

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
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
Eugenol	97-53-0	LC50	13 mg/l	fish	24 h

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Eugenol	97-53-0	EC50	1.05 mg/l	aquatic invertebrates	48 h
Eugenol	97-53-0	ErC50	24 mg/l	green algae (Selenastrum capricornutum)	72 h
Eugenol	97-53-0	NOEC	10 mg/l	fish	24 h
Eugenol	97-53-0	LOEC	38 mg/l	green algae (Selenastrum capricornutum)	72 h
Cinnamal	104-55-2	LC50	2.35 mg/l	fish	96 h
Cinnamal	104-55-2	EC50	119.6 mg/l	aquatic invertebrates	48 h
Cinnamal	104-55-2	NOEC	37.23 mg/l	green algae (Selenastrum capricornutum)	72 h
Piperonal	120-57-0	LC50	1.6 mg/l	fish	24 h
Piperonal	120-57-0	EC50	82 mg/l	aquatic invertebrates	24 h
Piperonal	120-57-0	ErC50	31 mg/l	green algae (Selenastrum capricornutum)	72 h
Piperonal	120-57-0	NOEC	1.6 mg/l	fish	96 h
Ethyl vanillin	121-32-4	LC50	87.6 mg/l	fish	96 h
Ethyl vanillin	121-32-4	EC50	26.2 mg/l	aquatic invertebrates	48 h
Ethyl vanillin	121-32-4	ErC50	>100 mg/l	green algae (Selenastrum capricornutum)	72 h
Ethyl vanillin	121-32-4	NOEC	21.2 mg/l	green algae (Selenastrum capricornutum)	72 h
Coumarin	91-64-5	LC50	2.94 mg/l	fish	96 h
Coumarin	91-64-5	EC50	8.012 mg/l	aquatic invertebrates	48 h
Coumarin	91-64-5	NOEC	0.431 mg/l	green algae (Selenastrum capricornutum)	72 h
Caryophyllene	87-44-5	EC50	>0.17 mg/l	aquatic invertebrates	48 h
Caryophyllene	87-44-5	ErC50	>0.033 mg/l	green algae (Selenastrum capricornutum)	72 h
Caryophyllene	87-44-5	NOEC	≥0.033 mg/l	green algae (Selenastrum capricornutum)	72 h
Anisyl acetate	104-21-2	LC50	13.1 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
Anisyl acetate	104-21-2	EC50	31 mg/l	aquatic invertebrates	48 h
Anisyl acetate	104-21-2	ErC50	59.9 mg/l	green algae (Selenastrum capricornutum)	72 h
Anisyl acetate	104-21-2	NOEC	6.99 mg/l	green algae (Selenastrum capricornutum)	72 h
Anisyl acetate	104-21-2	LOEC	23.1 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
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
Eugenol	97-53-0	LC50	13 mg/l	fish	24 h
Eugenol	97-53-0	NOEC	10 mg/l	fish	24 h
Cinnamal	104-55-2	LC50	100.4 mg/l	fish	96 h
Cinnamal	104-55-2	EC50	0.402 mg/l	aquatic invertebrates	21 d
Cinnamal	104-55-2	NOEC	15.16 mg/l	fish	28 d
Piperonal	120-57-0	LC50	1.6 mg/l	fish	24 h
Piperonal	120-57-0	EC50	82 mg/l	aquatic invertebrates	24 h
Ethyl vanillin	121-32-4	EC50	24 mg/l	aquatic invertebrates	21 d
Ethyl vanillin	121-32-4	LOEC	18 mg/l	aquatic invertebrates	21 d
Ethyl vanillin	121-32-4	NOEC	10 mg/l	aquatic invertebrates	21 d
Coumarin	91-64-5	NOEC	0.191 mg/l	fish	30 d
Anisyl acetate	104-21-2	EC50	52 mg/l	aquatic invertebrates	24 h

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12.2 Persistence and degradability

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
Eugenol	97-53-0	oxygen depletion	50 %	7 d		ECHA
Cinnamal	104-55-2	carbon dioxide generation	89 %	7 d		ECHA
Piperonal	120-57-0	oxygen depletion	29 %	2 d		ECHA
Coumarin	91-64-5	oxygen depletion	87 %	14 d		ECHA
Caryophyllene	87-44-5	oxygen depletion	10 %	28 d		ECHA
Anisyl acetate	104-21-2	oxygen depletion	78 %	21 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
Benzyl benzoate	120-51-4	193.4	3.97 (25 °C)	
Eugenol	97-53-0		1.83 (pH value: 5.5, 30 °C)	
Cinnamal	104-55-2	8	2.107 (25 °C)	
Piperonal	120-57-0		1.2 (35 °C)	
Ethyl vanillin	121-32-4		1.58 (25 °C)	
Coumarin	91-64-5		1.39 (pH value: 7, 25 °C)	
Caryophyllene	87-44-5		6.23 (pH value: 7, 25 °C)	
Anisyl acetate	104-21-2		1.9 (35 °C)	

12.4 Mobility in soil

Data are not available.



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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

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	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 dangerous goods regulations
14.6	Special precautions for user	There is no additional information.
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

DOT

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.



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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/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

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

Name of substance	CAS No	Classification	CN Code	Threshold level
Piperonal	120-57-0	Category 1	2932 93 00	

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
Eugenol	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
Cinnamal	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
Anisyl acetate	this product meets the criteria for classification 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
Caryophyllene	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
Benzyl benzoate	this product meets the criteria for classification 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	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	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	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

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15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	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 $\geq 0,1\%$.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
6.2	Environmental precautions: Keep away from drains, surface and ground water. Retain contaminated washing water and dispose 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
11.1		Acute toxicity estimate (ATE) 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
12.5	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: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
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
Asp. Tox.	Aspiration 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
CN Code	Combined Nomenclature
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
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



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Abbr.	Descriptions of used abbreviations
Eye Irrit.	Irritant to the eye
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
IMDG	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
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit



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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
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.