



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Refresh Your Car Vent Stick Fresh Strawberry/Cool Lemonade

Version number: 6.0  
Replaces version of: 2020-12-07 (5)

Revision: 2020-12-15

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

**Refresh Your Car Vent Stick Fresh Strawberry/  
Cool Lemonade**

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

Relevant identified uses

Consumer use: 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)  
Website: <http://data.energizer.com>

Energizer Trading Ltd.  
Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376  
e-mail: [ConsumerServiceEU@energizer.com](mailto:ConsumerServiceEU@energizer.com)

#### 1.4 Emergency telephone number

Emergency information service

1-314-985-1511 Int'l: 1-800-526-4727  
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 statement
A.4S	skin sensitization	1	Skin Sens. 1	H317

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

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### - Pictograms

GHS07



### - 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.  
P103 Read label before use.  
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.  
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.  
P501 Dispose of contents/container in accordance with national regulations.

2.2.1.7- Hazardous ingredients for labelling dipentene, Linalyl acetate, Linalool, Dorisyl

### 2.3 Other hazards

Hazards not otherwise classified

Contains dipentene, Benzyl salicylate, Aldehyde C-16, Dimethylcyclohex-3-ene-1-carbaldehyde, Dorisyl, Linalool, Linalyl acetate. May produce an allergic reaction.  
Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.


## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures








Description of the mixture

Name of substance	CAS No	Wt%	Classification acc. to GHS	Pictograms
Linalyl acetate	115-95-7	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	

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Name of substance	CAS No	Wt%	Classification acc. to GHS	Pictograms
dipentene	138-86-3 5989-27-5 5989-54-8	< 1	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 3 / H226	
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Allyl Caproate	123-68-2	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Flam. Liq. 4 / H227	
Linalool	78-70-6	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Benzyl salicylate	118-58-1	< 1	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Aldehyde C-16	77-83-8	< 1	Skin Sens. 1B / H317	
Dorisyl	32210-23-4	< 1	Skin Sens. 1B / H317	

For full text of abbreviations: see SECTION 16.

### SECTION 4: First-aid measures

#### 4.1 Description of first-aid measures

##### General notes

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

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

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



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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 (CO<sub>2</sub>)

#### 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.

#### 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.



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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.

Control of the effects

Protect against external exposure, such as

Frost

### 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 <sup>3</sup> ]	STEL [ppm]	STEL [mg/ m <sup>3</sup> ]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m <sup>3</sup> ]	Nota tion	Sourc e
US	polyvinyl chloride	9002-86-	TLV®		1					r	AC-



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### Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/ m <sup>3</sup> ]	STEL [ppm]	STEL [mg/ m <sup>3</sup> ]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m <sup>3</sup> ]	Nota tion	Sourc e
		2									GIH® 2019

#### Notation

Ceiling-C  
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
Linalyl acetate	115-95-7	DNEL	2.75 mg/m <sup>3</sup>	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/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Linalyl acetate	115-95-7	DNEL	236.2 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Allyl Caproate	123-68-2	DNEL	15 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl Caproate	123-68-2	DNEL	4.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	DNEL	7.3 mg/m <sup>3</sup>	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 exposure	Used in	Exposure time
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	DNEL	2.1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	DNEL	1,163 µg/cm²	human, dermal	worker (industry)	chronic - local effects
Benzyl salicylate	118-58-1	DNEL	7.8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl salicylate	118-58-1	DNEL	2.21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	2.45 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	0.7 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
Linalyl acetate	115-95-7	PNEC	0.11 mg/l	aquatic organisms	water	intermittent release
Linalyl acetate	115-95-7	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.609 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.061 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalyl acetate	115-95-7	PNEC	0.115 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
Linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release



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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 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)
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
Allyl Caproate	123-68-2	PNEC	47.56 mg/kg	aquatic organ-isms	water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	1.17 µg/l	aquatic organ-isms	water	intermittent re-lease
Allyl Caproate	123-68-2	PNEC	0.117 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.012 µg/l	aquatic organ-isms	marine water	short-term (single instance)





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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Allyl Caproate	123-68-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	4.46 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.446 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.825 µg/kg	terrestrial organisms	soil	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	13.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.152 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	PNEC	0.023 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.0103 mg/l	aquatic organisms	water	intermittent release
Benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organisms	water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.583 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.058 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	1.41 mg/kg	terrestrial organisms	soil	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Aldehyde C-16	77-83-8	PNEC	23.3 mg/kg	aquatic organisms	water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.084 mg/l	aquatic organisms	water	intermittent release
Aldehyde C-16	77-83-8	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	8.4 µg/l	aquatic organisms	marine water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.214 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.021 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.038 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 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	light yellow - red
Odor	fruity

#### Other safety parameters

pH (value)	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	93.33 °C
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	not determined
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	not determined
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidizing properties	none
9.2 Other information	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

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.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
dipentene	138-86-3 5989-27-5 5989-54-8	dermal	2,000 mg/kg
Allyl Caproate	123-68-2	oral	100 mg/kg
Allyl Caproate	123-68-2	dermal	820 mg/kg
Allyl Caproate	123-68-2	inhalation: vapor	3 mg/l/4h

##### 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
dipentene	5989-27-5	3	

Legend

3

Not classifiable as to carcinogenicity in humans



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### 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.

## SECTION 12: Ecological information

### 12.1 Toxicity

Harmful to aquatic life.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
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
Linalool	78-70-6	LC50	27.8 mg/l	fish	96 h
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 mg/l	algae	96 h
Linalool	78-70-6	NOEC	<3.5 mg/l	fish	96 h
Linalool	78-70-6	growth (EbCx) 10%	38.4 mg/l	algae	96 h
Linalool	78-70-6	growth rate (ErCx) 10%	54.3 mg/l	algae	96 h
Dorisyl	32210-23-4	LC50	8.6 mg/l	fish	96 h
Dorisyl	32210-23-4	EC50	5.3 mg/l	aquatic invertebrates	48 h
Dorisyl	32210-23-4	ErC50	22 mg/l	algae	72 h
Dorisyl	32210-23-4	NOEC	6.8 mg/l	algae	72 h



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### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Dorisyl	32210-23-4	growth rate (ErCx) 10%	11 mg/l	algae	72 h
Allyl Caproate	123-68-2	LC50	0.201 mg/l	fish	24 h
Allyl Caproate	123-68-2	EC50	2 mg/l	aquatic invertebrates	48 h
Allyl Caproate	123-68-2	ErC50	>4.6 mg/l	algae	72 h
Allyl Caproate	123-68-2	NOEC	0.158 mg/l	algae	72 h
Allyl Caproate	123-68-2	LOEC	0.505 mg/l	algae	72 h
Allyl Caproate	123-68-2	growth rate (ErCx) 10%	0.255 mg/l	algae	72 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	LC50	15 mg/l	fish	96 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	EC50	7.74 mg/l	aquatic invertebrates	48 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	ErC50	22.8 mg/l	algae	72 h
Dimethylcyclohex-3-ene-1-carbaldehyde	27939-60-2	NOEC	3.83 mg/l	algae	72 h
Benzyl salicylate	118-58-1	LC50	1.03 mg/l	fish	96 h
Benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	ErC50	1.29 mg/l	algae	72 h
Benzyl salicylate	118-58-1	NOEC	0.894 mg/l	aquatic invertebrates	48 h
Aldehyde C-16	77-83-8	LC50	4.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	EC50	95 mg/l	aquatic invertebrates	24 h
Aldehyde C-16	77-83-8	ErC50	36 mg/l	algae	72 h
Aldehyde C-16	77-83-8	NOEC	3.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	LOEC	20 mg/l	algae	72 h
Aldehyde C-16	77-83-8	growth (EbCx) 10%	80 mg/l	aquatic invertebrates	24 h

### 12.2 Persistence and degradability

Data are not available.



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### 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

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 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.

#### 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 assigned                                                          |
| 14.3 | Transport hazard class(es)                                         | not assigned                                                          |
| 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 | Transport in bulk according to Annex II of MARPOL and the IBC Code | The cargo is not intended to be carried in bulk.                      |





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### 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

##### 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

##### 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	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
Dipentene	d-Limonene	5989-27-5		EU Fragrance Allergens
Linalool	Linalool	78-70-6		EU Fragrance Allergens
Dorisyl		32210-23-4	fragrance	
Benzyl salicylate	Benzyl salicylate	118-58-1		EU Fragrance Allergens
Acetophenone	Acetophenone	98-86-2		CA TACs
Citral	Citral	5392-40-5		EU Fragrance Allergens



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### - Toxic or Hazardous Substance List (MA-TURA)

Name of substance	Name acc. to inventory	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Thres hold	De Minimis Concentration Threshold
acetophenone	Acetophenone	98-86-2				1.0 %
pentyl acetate	iso-Amyl acetate	123-92-2				1.0 %
pentyl acetate	sec-Amyl acetate	626-38-0				1.0 %

### - Hazardous Substance List (NJ-RTK)

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
dipentene	dipentene	138-86-3		F2
BHT	2,6-di-tert-butyl-p-cresol (phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-)	128-37-0		
Polyvinyl Chloride	PVC (polyvinyl chloride)	9002-86-2		
acetophenone	acetophenone	98-86-2		F2
pentyl acetate	n-amyl acetate (1-pentyl acetate)	628-63-7		F3

#### Legend

F2 Flammable - Second Degree  
F3 Flammable - Third Degree

### - Hazardous Substance List (Chapter 323) (PA-RTK)

Name of substance	Name acc. to inventory	CAS No	Classification
acetophenone	ETHANONE, 1-PHENYL-	98-86-2	E
pentyl acetate	ACETIC ACID, PENTYL ESTER	628-63-7	E

#### Legend

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

Name of substance	Name acc. to inventory	CAS No	References
BHT	2,6-Ditert. butyl-p-cresol	128-37-0	T
acetophenone	acetophenone	98-86-2	F
pentyl acetate	n-Amyl acetate	628-63-7	T

#### Legend

F Flammability (NFPA®)



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### Legend

T Toxicity (ACGIH®)

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

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	/	none
Health	2	temporary or minor injury may occur
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures 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).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures 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	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed



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Country	Inventory	Status
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	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

### Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

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

## 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-relevant
3.2		Description of the mixture: change in the listing (table)	yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes



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### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
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
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
HHS	Higher hazard substance
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



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Abbr.	Descriptions of used abbreviations
LHS	Lower hazard substance
LOEC	Lowest Observed Effect Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
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
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
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 chapter 2 and 3)



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Code	Text
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.

#### Disclaimer

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