



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Refresh Dual Vent Sticks - New Car/Cool Breeze

Version number: GHS 2.2  
Replaces version of: 2019-11-25 (GHS 1)

Revision: 2020-01-19

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

Refresh Dual Vent Sticks - New Car/Cool Breeze

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

Relevant identified uses

Consumer uses

#### 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: energizer@custhelp.com

Website: <http://data.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 GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.4S	skin sensitization	1	Skin Sens. 1	H317
3.7	reproductive toxicity	2	Repr. 2	H361f

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labeling

- Signal word

warning

- Pictograms

GHS07, GHS08





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### - Hazard statements

H317 May cause an allergic skin reaction.  
H361f Suspected of damaging fertility.

### - 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 dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should 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.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### - Hazardous ingredients for labelling

Hexyl salicylate, Lilial, patchouli ethanone, Orange Terpenes, Eugenia caryophyllus (Clove) leaf oil, Coumarin, Hexyl cinnamaldehyde, Linalool

## 2.3 Other hazards

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	Identifier	Wt%	Classification acc. to GHS	Pictograms
benzyl benzoate	CAS No 120-51-4	1 - < 5	Acute Tox. 4 / H302	
Tetrahydrolinalool	CAS No 78-69-3	1 - < 5	Flam. Liq. 4 / H227 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
Styrallyl Acetate	CAS No 93-92-5	1 - < 5	Flam. Liq. 4 / H227	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Linalool	CAS No 78-70-6	< 1	Flam. Liq. 4 / H227 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Hexyl salicylate	CAS No 6259-76-3	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
patchouli ethanone	CAS No 54464-57-2	< 1	Skin Sens. 1 / H317	
Orange Terpenes	CAS No 68647-72-3	< 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304	
Allyl Caproate	CAS No 123-68-2	< 1	Flam. Liq. 4 / H227 Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331	
Lilial	CAS No 80-54-6	< 1	Flam. Liq. 4 / H227 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 2 / H361f	
Hexyl cinnamaldehyde	CAS No 101-86-0 165184-98-5	< 1	Acute Tox. 4 / H332 Skin Sens. 1B / H317	
Eugenia caryophyllus (Clove) leaf oil	CAS No 8000-34-8 68917-29-3 84961-50-2	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304	
allyl heptanoate	CAS No 142-19-8	< 1	Flam. Liq. 4 / H227 Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331	
Coumarin	CAS No 91-64-5	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Sens. 1 / H317	

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

Rinse skin with water/shower.

##### 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

Deposited combustible dust has considerable explosion potential.

##### 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.



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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 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.

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. Take precautionary measures against static discharge. 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.
- Ventilation requirements  
Use local and general ventilation.

### 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)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	particulate not otherwise regulated		OEL (AB)		10					i, particulate	OHS Code
CA	particulate not otherwise regulated		OEL (AB)		3					r, particulate	OHS Code
CA	particulates not otherwise classified (PNOC)		PEV/VEA		10					noAsb_less1Sil	Regulation OHS
CA	benzyl acetate	140-11-4	OEL (AB)	10	61						OHS Code
CA	benzyl acetate	140-11-4	OEL (BC)	10							"BC Regulation"
CA	benzyl acetate	140-11-4	OEL (ON-MoL)	10							MoL
CA	polyvinyl chloride (PVC)	9002-86-2	OEL (BC)		1					r	"BC Regulation"

#### Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur  
i inhalable fraction  
noAsb\_less1S contains no asbestos and less than 1% free crystalline silica  
il  
particle as airborne particles  
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)



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### Notation

TWA

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

### Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
benzyl benzoate	120-51-4	DNEL	102 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
benzyl benzoate	120-51-4	DNEL	2.6 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
benzyl benzoate	120-51-4	DNEL	5.1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Tetrahydrolinalool	78-69-3	DNEL	2.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Tetrahydrolinalool	78-69-3	DNEL	2.75 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Styrallyl Acetate	93-92-5	DNEL	3.75 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Styrallyl Acetate	93-92-5	DNEL	4.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic 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
Hexyl salicylate	6259-76-3	DNEL	20,830 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Hexyl salicylate	6259-76-3	DNEL	7.29 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Hexyl salicylate	6259-76-3	DNEL	20,830 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Hexyl salicylate	6259-76-3	DNEL	7.29 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Orange Terpenes	68647-72-3	DNEL	31.1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Orange Terpenes	68647-72-3	DNEL	8.89 mg/kg	human, dermal	worker (industry)	chronic - systemic effects



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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Orange Terpenes	68647-72-3	DNEL	185.8 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Allyl Caproate	123-68-2	DNEL	4.3 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Allyl Caproate	123-68-2	DNEL	15 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	2.075 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	0.44 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	0.078 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	6.28 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	18.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	525 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	525 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
allyl heptanoate	142-19-8	DNEL	4.7 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
allyl heptanoate	142-19-8	DNEL	16 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.84 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.741 mg/m <sup>3</sup>	human, inhalatory	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	0.0168 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	0.00168 mg/l	aquatic organisms	marine water	short-term (single instance)





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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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	10.66 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	1.07 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	2.12 mg/kg	terrestrial organisms	soil	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.0089 mg/l	aquatic organisms	freshwater	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.00089 mg/l	aquatic organisms	marine water	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	450 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.0821 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.00821 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.0112 mg/kg	terrestrial organisms	soil	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.089 mg/l	aquatic organisms	water	intermittent release
Styrallyl Acetate	93-92-5	PNEC	0.0183 mg/l	aquatic organisms	freshwater	short-term (single instance)
Styrallyl Acetate	93-92-5	PNEC	0.00183 mg/l	aquatic organisms	marine water	short-term (single instance)
Styrallyl Acetate	93-92-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Styrallyl Acetate	93-92-5	PNEC	0.5362 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Styrallyl Acetate	93-92-5	PNEC	0.05362 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Styrallyl Acetate	93-92-5	PNEC	16.67 mg/kg	aquatic organisms	water	short-term (single instance)
Styrallyl Acetate	93-92-5	PNEC	0.0965 mg/kg	terrestrial organisms	soil	short-term (single instance)
Styrallyl Acetate	93-92-5	PNEC	0.183 mg/l	aquatic organisms	water	intermittent release



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
Linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.000357 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.0000357 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.272 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.00357 mg/l	aquatic organisms	water	intermittent release
Hexyl salicylate	6259-76-3	PNEC	0.0272 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.0542 mg/kg	terrestrial organisms	soil	short-term (single instance)
Orange Terpenes	68647-72-3	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Orange Terpenes	68647-72-3	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
Orange Terpenes	68647-72-3	PNEC	5.77 µg/l	aquatic organisms	water	intermittent release
Orange Terpenes	68647-72-3	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)



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Orange Terpenes	68647-72-3	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Orange Terpenes	68647-72-3	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Orange Terpenes	68647-72-3	PNEC	0.261 mg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.117 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.0117 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	4.46 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.446 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	47.56 mg/kg	aquatic organisms	water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.825 µg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	1.17 µg/l	aquatic organisms	water	intermittent release
Lilial	80-54-6	PNEC	0.00204 mg/l	aquatic organisms	freshwater	short-term (single instance)
Lilial	80-54-6	PNEC	0.0002 mg/l	aquatic organisms	marine water	short-term (single instance)
Lilial	80-54-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lilial	80-54-6	PNEC	0.269 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.0269 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.0525 mg/kg	terrestrial organisms	soil	short-term (single instance)
Lilial	80-54-6	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)

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Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	3.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.398 mg/kg	terrestrial organisms	soil	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.12 µg/l	aquatic organisms	freshwater	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.0012 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.012 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	51.78 mg/kg	aquatic organisms	water	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	0.00233 mg/kg	terrestrial organisms	soil	short-term (single instance)
allyl heptanoate	142-19-8	PNEC	1.2 µg/l	aquatic organisms	water	intermittent release
Coumarin	91-64-5	PNEC	0.0056 mg/l	aquatic organisms	freshwater	short-term (single instance)
Coumarin	91-64-5	PNEC	0.00056 mg/l	aquatic organisms	marine water	short-term (single instance)
Coumarin	91-64-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Coumarin	91-64-5	PNEC	0.207 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.0207 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.0217 mg/kg	terrestrial organisms	soil	short-term (single instance)



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Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release

### 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 protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.  
Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143).

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	Conforms to Standard
Odor	Conforms to standard



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### Other safety parameters

pH (value)	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	197 °C at 1,013 hPa
Flash point	not applicable
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	0.111 hPa at 19.6 °C
Density	not determined
Vapor density	this information is not available
Relative density	information on this property is not available
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	not explosive (GHS of the United Nations, annex 4)
Oxidizing properties	none

## 9.2 Other information



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Solvent content	96.9 %
Solid content	3.1 %

### 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.

### 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.



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### 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
Allyl Caproate	123-68-2	oral	100 mg/kg
Allyl Caproate	123-68-2	dermal	820 mg/kg
Allyl Caproate	123-68-2	inhalation: vapour	3 mg/l/4h
Lilial	80-54-6	oral	1,390 mg/kg
Hexyl cinnamaldehyde	101-86-0 165184-98-5	inhalation: vapour	11 mg/l/4h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	inhalation: dust/mist	2.12 mg/l/4h
allyl heptanoate	142-19-8	oral	100 mg/kg
allyl heptanoate	142-19-8	dermal	810 mg/kg
allyl heptanoate	142-19-8	inhalation: vapour	3 mg/l/4h
Coumarin	91-64-5	oral	293 mg/kg
Coumarin	91-64-5	dermal	300 mg/kg
Coumarin	91-64-5	inhalation: dust/mist	0.5 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.

### Reproductive toxicity

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).





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### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 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	3.09 mg/l	aquatic invertebrates	48 h
benzyl benzoate	120-51-4	ErC50	0.475 mg/l	algae	72 h
Tetrahydrolinalool	78-69-3	LC50	8.9 mg/l	fish	96 h
Tetrahydrolinalool	78-69-3	EC50	14.2 mg/l	aquatic invertebrates	48 h
Tetrahydrolinalool	78-69-3	ErC50	21.6 mg/l	algae	72 h
Styrallyl Acetate	93-92-5	LC50	21 mg/l	fish	96 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
Hexyl salicylate	6259-76-3	ErC50	0.61 mg/l	algae	72 h
Hexyl salicylate	6259-76-3	EC50	0.28 mg/l	algae	72 h
Orange Terpenes	68647-72-3	LL50	5.65 mg/l	fish	96 h
Orange Terpenes	68647-72-3	EL50	1.1 mg/l	aquatic invertebrates	48 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
Lilial	80-54-6	LC50	2.04 mg/l	fish	96 h
Lilial	80-54-6	EC50	2.51 mg/l	aquatic invertebrates	48 h
Lilial	80-54-6	ErC50	29.16 mg/l	algae	72 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	LC50	1.7 mg/l	fish	96 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	EC50	<0.59 mg/l	aquatic invertebrates	48 h



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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexyl cinnamaldehyde	101-86-0 165184-98-5	ErC50	>0.065 mg/l	algae	72 h
allyl heptanoate	142-19-8	EC50	0.89 mg/l	aquatic invertebrates	48 h
Coumarin	91-64-5	LC50	1.324 mg/l	fish	96 h
Coumarin	91-64-5	EC50	8.012 mg/l	aquatic invertebrates	48 h

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
benzyl benzoate	120-51-4	EC50	4.26 mg/l	aquatic invertebrates	24 h
benzyl benzoate	120-51-4	LC50	11 mg/l	aquatic invertebrates	24 h
Tetrahydrolinalool	78-69-3	EC50	1,000 mg/l	microorganisms	30 min
Styrallyl Acetate	93-92-5	EC50	>100 mg/l	microorganisms	3 h
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Orange Terpenes	68647-72-3	EL50	1.4 mg/l	aquatic invertebrates	24 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	EC50	>157 µg/l	aquatic invertebrates	21 d

### 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

Data are not available.



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### 12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

## 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.                      |

### Information for each of the UN Model Regulations

#### Transport information - National regulations - Additional information (UN RTDG)

not assigned

#### International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

#### International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.



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### 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

- Specific Toxic Chemical Listings (EPCRA Section 313)

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
Polyvinyl Chloride	9002-86-2	stabilizer	
Benzyl acetate	140-11-4	fragrance	
benzyl benzoate	120-51-4	fragrance	EU Fragrance Allergens
Tetrahydrolinalool	78-69-3	fragrance	
Styrallyl Acetate	93-92-5	fragrance	
Acetoxydihydrodicyclopentadiene	54830-99-8	fragrance	
hexyl acetate	142-92-7	fragrance	
Linalool	78-70-6	fragrance	EU Fragrance Allergens
Hexyl salicylate	6259-76-3	fragrance	
patchouli ethanone	54464-57-2	fragrance	
Phenethyl alcohol	60-12-8	fragrance	
2-t-Butylcyclohexyl Acetate	88-41-5	fragrance	
Orange Terpenes	68647-72-3	fragrance	
Allyl Caproate	123-68-2	fragrance	
3-methylbutyl butyrate	106-27-4	fragrance	
Hexyl cinnamaldehyde	101-86-0	fragrance	EU Fragrance Allergens
Dihydromyrcenol	18479-58-8	fragrance	



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Name of substance	CAS No	Functionality	Authoritative Lists
Lilial	80-54-6	fragrance	EU Fragrance Allergens
ethylene brassylate	105-95-3	fragrance	
Hedione	24851-98-7	fragrance	
Eugenia caryophyllus (Clove) leaf oil	8000-34-8 68917-29-3 84961-50-2	fragrance	
Aldehyde C-14	104-67-6	fragrance	
2,6-dimethylheptan-2-ol	13254-34-7	fragrance	
allyl (3-methylbutoxy)acetate	67634-00-8	fragrance	
ethyl isovalerate	108-64-5	fragrance	
Diphenyl Oxide	101-84-8	fragrance	
Applinal	6413-10-1	fragrance	
Ethyl heptanoate	106-30-9	fragrance	
pentyl acetate	628-63-7	fragrance	
allyl heptanoate	142-19-8	fragrance	
Anisic Aldehyde	123-11-5	fragrance	
terpineol	98-55-5	fragrance	
Coumarin	91-64-5	fragrance	EU Fragrance Allergens
2'-acetonaphthone	93-08-3	fragrance	

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

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
pentyl acetate	123-92-2				1.0 %
pentyl acetate	626-38-0				1.0 %

### - Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
Benzyl acetate	140-11-4	A	

#### Legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH



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

Name of substance	CAS No	Remarks	Classifications
Benzyl acetate	140-11-4		F2
Polyvinyl Chloride	9002-86-2		
pentyl acetate	628-63-7		F3
Diphenyl Oxide	101-84-8		

#### Legend

F2 Flammable - Second Degree  
F3 Flammable - Third Degree

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

Name of substance	CAS No	Classification
pentyl acetate	628-63-7	E

#### Legend

E Environmental hazard

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

Name of substance	CAS No	References
pentyl acetate	628-63-7	T
Diphenyl Oxide	101-84-8	T

#### 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	*	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 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



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Category	Rating	Description
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 regulations (Canada)

Domestic Substances List (DSL)

All ingredients are listed.

### National inventories

Country	Inventory	Status
AU	AICS	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	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



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### 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
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
2.2	- Hazardous ingredients for labelling: Hexyl salicylate, Lilial, Iso E Super, Orange Terpenes, Eugenia caryophyllus (Clove) leaf oil, Coumarin, Hexyl cinnamaldehyde, Linalool	- Hazardous ingredients for labelling: Hexyl salicylate, Lilial, patchouli ethanone, Orange Terpenes, Eugenia caryophyllus (Clove) leaf oil, Coumarin, Hexyl cinnamaldehyde, Linalool	yes
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
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
15.1		Right to Know Hazardous Substance List	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK)	yes





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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Toxic or Hazardous Substance List (MA-TURA)	yes
15.1		Toxic or Hazardous Substance List (MA-TURA): change in the listing (table)	yes
15.1		Hazardous Substances List (MN-ERTK)	yes
15.1		Hazardous Substances List (MN-ERTK): change in the listing (table)	yes
15.1		Hazardous Substance List (NJ-RTK)	yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK)	yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (RI-RTK)	yes
15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes
15.1	VOC content: Regulated Volatile Organic Compounds (VOC-EPA): 1.5 % Regulated Volatile Organic Compounds (VOC-Cal ARB): 1.5 %		yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
ACGIH®	American Conference of Governmental Industrial Hygienists
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)



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Abbr.	Descriptions of used abbreviations
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
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
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
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
LHS	Lower hazard substance
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration



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Abbr.	Descriptions of used abbreviations
ppm	Parts per million
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
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
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Hazardous Products Regulations (HPR).

UN Recommendations on the Transport of Dangerous Goods. 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)

Code	Text
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## Refresh Dual Vent Sticks - New Car/Cool Breeze

Version number: GHS 2.2  
Replaces version of: 2019-11-25 (GHS 1)

Revision: 2020-01-19

Code	Text
H361f	Suspected of damaging fertility.

### Disclaimer

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