



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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

1.1 Product identifier

Trade name **Refresh Vent Stick - New Car**
Registration number (REACH) not relevant (mixture)

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

Relevant identified uses Consumer Use (Car Air Freshener)

1.3 Details of the supplier of the safety data sheet

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

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)
e-mail: 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: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

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.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word warning

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

- Pictograms

GHS07



- Hazard statements

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

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

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 EC No 204-402-9 Index No 607-085-00-9 REACH Reg. No 01-2119976371-33- xxxx	5 - < 10	Acute Tox. 4 / H302 Aquatic Chronic 2 / H411	 






Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)




Revision: 2020-01-19

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Tetrahydrolinalool	CAS No 78-69-3 EC No 201-133-9 REACH Reg. No 01-2119454788-21- xxxx	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	
Benzyl acetate	CAS No 140-11-4 EC No 205-399-7 REACH Reg. No 01-2119638272-42- xxxx	1 - < 5	Aquatic Chronic 3 / H412	
Hexyl salicylate	CAS No 6259-76-3 EC No 228-408-6 REACH Reg. No 01-2119638275-36- xxxx	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
patchouli ethanone	CAS No 54464-57-2 EC No 259-174-3	1 - < 5	Skin Sens. 1 / H317 Aquatic Chronic 2 / H411	
Hexyl cinnamaldehyde	CAS No 101-86-0 165184-98-5 EC No 202-983-3 639-566-4 REACH Reg. No 01-2119533092-50- xxxx	< 1	Acute Tox. 4 / H332 Skin Sens. 1B / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	
Lilial	CAS No 80-54-6 EC No 201-289-8 REACH Reg. No 01-2119485965-18- xxxx	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 2 / H361f Aquatic Chronic 2 / H411	

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Eugenia caryophyllus (Clove) leaf oil	CAS No 8000-34-8 68917-29-3 84961-50-2 EC No 284-638-7	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304	
Coumarin	CAS No 91-64-5 EC No 202-086-7 REACH Reg. No 01-2119943756-26- xxxx	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411	
2'-acetonaphthone	CAS No 93-08-3 EC No 202-216-2 REACH Reg. No 01-2119935927-23- xxxx	< 1	Acute Tox. 4 / H302	

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

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.



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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

Deposited combustible dust has considerable explosion potential.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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.



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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

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/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
GB	dust		WEL		10					i	EH40/

Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
											2005
GB	dust		WEL		4					r	EH40/2005
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

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

i

inhalable fraction

r

respirable fraction

STEL

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

TWA

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

Relevant DNELs of components of the mixture

Name of 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 ³	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 ³	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 ³	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl acetate	140-11-4	DNEL	12.5 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Benzyl acetate	140-11-4	DNEL	43.8 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Benzyl acetate	140-11-4	DNEL	6.25 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Benzyl acetate	140-11-4	DNEL	21.9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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
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 ³	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 ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	0.078 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	6.28 mg/m ³	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 ²	human, dermal	worker (industry)	chronic - local effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	525 µg/cm ²	human, dermal	worker (industry)	acute - local 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 ³	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 ³	human, inhalatory	worker (industry)	chronic - systemic effects
2'-acetonaphthone	93-08-3	DNEL	83.33 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
2'-acetonaphthone	93-08-3	DNEL	146.9 mg/m ³	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)



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
benzyl benzoate	120-51-4	PNEC	0.00168 mg/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	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
Benzyl acetate	140-11-4	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.0004 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	8.55 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.114 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.04 mg/l	aquatic organisms	water	intermittent release
Benzyl acetate	140-11-4	PNEC	0.0114 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzyl acetate	140-11-4	PNEC	0.0205 mg/kg	terrestrial organisms	soil	short-term (single instance)



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
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)
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)

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Lilial	80-54-6	PNEC	0.024 mg/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)
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release
2'-acetonaphthone	93-08-3	PNEC	0.02587 mg/l	aquatic organisms	freshwater	short-term (single instance)
2'-acetonaphthone	93-08-3	PNEC	0.002587 mg/l	aquatic organisms	marine water	short-term (single instance)
2'-acetonaphthone	93-08-3	PNEC	1.941 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2'-acetonaphthone	93-08-3	PNEC	26.69 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2'-acetonaphthone	93-08-3	PNEC	26.69 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2'-acetonaphthone	93-08-3	PNEC	12.27 mg/kg	terrestrial organisms	soil	short-term (single instance)
2'-acetonaphthone	93-08-3	PNEC	0.02587 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.



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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
Colour	light blue
Odour	Conforms to standard

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	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
Vapour pressure	0.111 hPa at 19.6 °C
Density	not determined



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Vapour 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	none
Oxidising properties	none

9.2 Other information

Solvent content	94.6 %
Solid content	5.4 %

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



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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 according to GHS (1272/2008/EC, CLP)

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
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
Lilial	80-54-6	oral	1,390 mg/kg
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
2'-acetonephthone	93-08-3	oral	1,985 mg/kg

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.



Safety Data Sheet

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Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

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
Benzyl acetate	140-11-4	EC50	25 mg/l	aquatic invertebrates	24 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	EC50	>157 µg/l	aquatic invertebrates	21 d
2'-acetonaphthone	93-08-3	LC50	15.32 mg/l	fish	96 h
2'-acetonaphthone	93-08-3	EC50	6.689 mg/l	aquatic invertebrates	48 h

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Tetrahydrolinalool	78-69-3	oxygen depletion	60 - 70 %	28 d		ECHA
Hexyl salicylate	6259-76-3	oxygen depletion	91 %	28 d		ECHA

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hexyl cinnamaldehyde	101-86-0 165184-98-5	oxygen depletion	97 %	28 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		3.97 (25 °C)	
Tetrahydrolinalool	78-69-3		3.8 (25 °C)	
Hexyl salicylate	6259-76-3		5.5 (30 °C)	
Hexyl cinnamaldehyde	101-86-0 165184-98-5		5.3 (24 °C)	
Lilial	80-54-6		4.2 (24 °C)	
Coumarin	91-64-5		1.39 (pH value: 7, 25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

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.



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|---|---|
| 14.1 | UN number | not subject to transport regulations |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) | 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 of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR. Not subject to RID.

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

Identifier number	9003
Proper shipping name	SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C
Class	9
Number of cones/blue lights	0

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

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)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Benzyl acetate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Hexyl cinnamaldehyde	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Tetrahydrolinalool	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Hexyl salicylate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
patchouli ethanone	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Lilial	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Eugenia caryophyllus (Clove) leaf oil	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3

Legend

R3

- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Legend

containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Deco-Paint Directive (2004/42/EC)

VOC content	91.3 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	91.1 %
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Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the 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



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Country	Inventory	Status
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
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
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 (chronic) of components of the mixture: change in the listing (table)	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
12.3		Bioaccumulative potential of components of the mixture: 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
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European 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
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
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
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



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Abbr.	Descriptions of used abbreviations
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
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
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
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
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data



Safety Data Sheet

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

Refresh Vent Stick - New Car

Version number: GHS 2.2
Replaces version of: 2019-11-15 (GHS 1)

Revision: 2020-01-19

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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
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.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

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