



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All FRESHfx Car Air Freshener Cherry Blast Vent Sticks

Version number: GHS 4.0
Replaces version of: 2020-06-09 (GHS 3)

Revision: 2020-10-21

SECTION 1: Identification

1.1 Product identifier

Trade name **Armor All FRESHfx Car Air Freshener Cherry Blast Vent Sticks**
Alternative number(s) 070612185426

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

Relevant identified uses General use

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

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.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	2	Repr. 2	H361f
B.6	flammable liquid	4	Flam. Liq. 4	H227

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For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

- Signal word warning

- Pictograms

GHS07, GHS08



- Hazard statements

H227	Combustible liquid.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.2.1.7- Hazardous ingredients for labelling

Lilial, Hexyl cinnamaldehyde, delta-Damascone, Patchouli ethanone, Dorisyl

2.3 Other hazards

This material is combustible, but will not ignite readily.



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Hazards not otherwise classified

May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

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	50 – < 75	Acute Tox. 4 / H302	
Hexyl cinnamaldehyde	CAS No 165184-98-5 101-86-0	10 – < 25	Acute Tox. 4 / H332	
Tetrahydrolinalool	CAS No 78-69-3	10 – < 25	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
benzaldehyde	CAS No 100-52-7	10 – < 25	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Flam. Liq. 4 / H227	
Hedione	CAS No 24851-98-7	10 – < 25	Acute Tox. 4 / H332	
Methyl Benzaldehyde	CAS No 104-87-0	5 – < 10	Acute Tox. 4 / H302 Eye Irrit. 2 / H319	
Ethyl Maltol	CAS No 4940-11-8	5 – < 10	Acute Tox. 4 / H302	
Lilial	CAS No 80-54-6	5 – < 10	Acute Tox. 4 / H302 Flam. Liq. 4 / H227	
α,α-dimethylphenethyl butyrate	CAS No 10094-34-5	5 – < 10	Skin Irrit. 2 / H315	





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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
delta-Damascone	CAS No 57378-68-4	1 – < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
Dorisyl	CAS No 32210-23-4	1 – < 5	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. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet



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5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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.



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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. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

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

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

This information is not available.



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Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
benzyl benzoate	120-51-4	DNEL	5.1 mg/m ³	human, inhalatory	worker (industry)	chronic - system-ic effects
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 bw/day	human, dermal	worker (industry)	chronic - system-ic effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	0.078 mg/m ³	human, inhalatory	worker (industry)	chronic - system-ic effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	6.28 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	18.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - system-ic effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	525 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Hexyl cinnamaldehyde	165184-98-5 101-86-0	DNEL	525 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Tetrahydrolinalool	78-69-3	DNEL	11.14 mg/m ³	human, inhalatory	worker (industry)	chronic - system-ic effects
Tetrahydrolinalool	78-69-3	DNEL	3.16 mg/kg bw/day	human, dermal	worker (industry)	chronic - system-ic effects
Tetrahydrolinalool	78-69-3	DNEL	190 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
benzaldehyde	100-52-7	DNEL	9.8 mg/m ³	human, inhalatory	worker (industry)	chronic - system-ic effects
benzaldehyde	100-52-7	DNEL	9.8 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
benzaldehyde	100-52-7	DNEL	1.14 mg/kg bw/day	human, dermal	worker (industry)	chronic - system-ic effects
Hedione	24851-98-7	DNEL	29.3 mg/m ³	human, inhalatory	worker (industry)	chronic - system-ic effects
Hedione	24851-98-7	DNEL	9.04 mg/kg bw/day	human, dermal	worker (industry)	chronic - system-ic effects
Ethyl Maltol	4940-11-8	DNEL	58.7 mg/m ³	human, inhalatory	worker (industry)	chronic - system-ic effects
Ethyl Maltol	4940-11-8	DNEL	16.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - system-ic effects



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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Lilial	80-54-6	DNEL	0.44 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	1.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	410 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Lilial	80-54-6	DNEL	410 µg/cm ²	human, dermal	worker (industry)	acute - local effects
α,α-dimethylphenethyl butyrate	10094-34-5	DNEL	4.4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
α,α-dimethylphenethyl butyrate	10094-34-5	DNEL	8.33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
benzyl benzoate	120-51-4	PNEC	0.017 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	0.002 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)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	3.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl cinnamaldehyde	165184-98-5 101-86-0	PNEC	0.398 mg/kg	terrestrial organisms	soil	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.089 mg/l	aquatic organisms	water	intermittent release
Tetrahydrolinalool	78-69-3	PNEC	0.009 mg/l	aquatic organisms	freshwater	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.001 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	0.082 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.008 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Tetrahydrolinalool	78-69-3	PNEC	0.011 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0.011 mg/l	aquatic organisms	water	intermittent release
benzaldehyde	100-52-7	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
benzaldehyde	100-52-7	PNEC	7.59 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0.004 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzaldehyde	100-52-7	PNEC	0.001 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hedione	24851-98-7	PNEC	186 µg/l	aquatic organisms	water	intermittent release
Hedione	24851-98-7	PNEC	37.2 µg/l	aquatic organisms	freshwater	short-term (single instance)



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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hedione	24851-98-7	PNEC	3.72 µg/l	aquatic organisms	marine water	short-term (single instance)
Hedione	24851-98-7	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hedione	24851-98-7	PNEC	1,897 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hedione	24851-98-7	PNEC	189.7 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hedione	24851-98-7	PNEC	357.6 µg/kg	terrestrial organisms	soil	short-term (single instance)
Ethyl Maltol	4940-11-8	PNEC	7.2 µg/l	aquatic organisms	freshwater	short-term (single instance)
Ethyl Maltol	4940-11-8	PNEC	0.72 µg/l	aquatic organisms	marine water	short-term (single instance)
Ethyl Maltol	4940-11-8	PNEC	1.55 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl Maltol	4940-11-8	PNEC	0.27 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethyl Maltol	4940-11-8	PNEC	0.027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ethyl Maltol	4940-11-8	PNEC	0.049 mg/kg	terrestrial organisms	soil	short-term (single instance)
Lilial	80-54-6	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Lilial	80-54-6	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
Lilial	80-54-6	PNEC	0 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	0.528 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.053 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.103 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
α,α -dimethylphen-ethyl butyrate	10094-34-5	PNEC	4.766 $\mu\text{g}/\text{l}$	aquatic organisms	freshwater	short-term (single instance)
α,α -dimethylphen-ethyl butyrate	10094-34-5	PNEC	31.25 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
α,α -dimethylphen-ethyl butyrate	10094-34-5	PNEC	0.189 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
α,α -dimethylphen-ethyl butyrate	10094-34-5	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dorisyl	32210-23-4	PNEC	5.3 $\mu\text{g}/\text{l}$	aquatic organisms	freshwater	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.53 $\mu\text{g}/\text{l}$	aquatic organisms	marine water	short-term (single instance)
Dorisyl	32210-23-4	PNEC	12.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dorisyl	32210-23-4	PNEC	2.01 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.21 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dorisyl	32210-23-4	PNEC	66.67 mg/kg	aquatic organisms	water	short-term (single instance)
Dorisyl	32210-23-4	PNEC	0.42 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dorisyl	32210-23-4	PNEC	53 $\mu\text{g}/\text{l}$	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.



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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.

- 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	liquid
Color	various
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	179 °C
Flash point	62 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	169 Pa at 25 °C



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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	192 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Temperature class (USA, acc. to NEC 500)	T3A (maximum permissible surface temperature on the equipment: 180°C)
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.



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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 OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Hexyl cinnamaldehyde	165184-98-5 101-86-0	inhalation: vapor	11 mg/l/4h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	inhalation: dust/mist	2.12 mg/l/4h
benzaldehyde	100-52-7	oral	1,430 mg/kg
benzaldehyde	100-52-7	inhalation: vapor	11 mg/l/4h
Hedione	24851-98-7	inhalation: vapor	11 mg/l/4h
Hedione	24851-98-7	inhalation: dust/mist	4.93 mg/l/4h
Methyl Benzaldehyde	104-87-0	oral	500 mg/kg
Ethyl Maltol	4940-11-8	oral	1,220 mg/kg
Lilial	80-54-6	oral	1,390 mg/kg
delta-Damascone	57378-68-4	oral	500 mg/kg

Skin corrosion/irritation

Causes skin irritation.



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Serious eye damage/eye irritation

Causes serious eye irritation.

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).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
benzyl benzoate	120-51-4	LC50	2.32 mg/l	fish	96 h
benzyl benzoate	120-51-4	EC50	4.26 mg/l	aquatic invertebrates	24 h
benzyl benzoate	120-51-4	ErC50	0.475 mg/l	algae	72 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	LC50	1.7 mg/l	fish	96 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	EC50	<0.59 mg/l	aquatic invertebrates	48 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	ErC50	>0.065 mg/l	algae	72 h
Tetrahydrolinalool	78-69-3	LC50	8.9 mg/l	fish	96 h



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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
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
benzaldehyde	100-52-7	LC50	12.4 mg/l	fish	96 h
benzaldehyde	100-52-7	EC50	19.7 mg/l	aquatic invertebrates	48 h
benzaldehyde	100-52-7	ErC50	33.1 mg/l	algae	72 h
Hedione	24851-98-7	LC50	28 mg/l	fish	24 h
Hedione	24851-98-7	EC50	13.1 mg/l	aquatic invertebrates	24 h
Hedione	24851-98-7	ErC50	49.2 mg/l	algae	48 h
Ethyl Maltol	4940-11-8	LC50	>85 mg/l	fish	96 h
Ethyl Maltol	4940-11-8	EC50	27 mg/l	aquatic invertebrates	48 h
Ethyl Maltol	4940-11-8	ErC50	7.2 mg/l	algae	72 h
Lilial	80-54-6	LC50	2.04 mg/l	fish	96 h
Lilial	80-54-6	EC50	10.7 mg/l	aquatic invertebrates	48 h
Lilial	80-54-6	ErC50	29.16 mg/l	algae	72 h
α,α -dimethylphenethyl butyrate	10094-34-5	EC50	21.3 mg/l	aquatic invertebrates	24 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

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
benzyl benzoate	120-51-4	LC50	11 mg/l	aquatic invertebrates	24 h
benzyl benzoate	120-51-4	EC50	>10,000 mg/l	microorganisms	3 h
Hexyl cinnamaldehyde	165184-98-5 101-86-0	EC50	>157 μ g/l	aquatic invertebrates	21 d



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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Tetrahydrolinalool	78-69-3	EC50	1,000 mg/l	microorganisms	30 min
benzaldehyde	100-52-7	EC50	50 mg/l	aquatic invertebrates	24 h
Hedione	24851-98-7	LC50	28 mg/l	fish	24 h
Hedione	24851-98-7	EC50	0.732 mg/l	aquatic invertebrates	21 d
α,α -dimethylphenethyl butyrate	10094-34-5	EC50	684 mg/l	microorganisms	3 h
Dorisyl	32210-23-4	EC50	302 mg/l	microorganisms	3 h

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.

12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

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

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.



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Remarks

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

SECTION 14: Transport information

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	benzyl benzoate, Hexyl cinnamaldehyde
14.3 Transport hazard class(es)	
Class	9 (environmentally hazardous)
14.4 Packing group	III (substance presenting low danger)
14.5 Environmental hazards	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	benzyl benzoate, Hexyl cinnamaldehyde
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

Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following:

DOT: 171.4(2)

ADR: SP 375

IMDG: 2.10.2.7

IATA: special provision A197, DOT

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

Index number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
- Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: benzyl benzoate, Hexyl cinnamaldehyde), 9, III
Class	9
Packing group	III
Danger label(s)	9, fish and tree

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Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	8, 146, 173, 335, IB3, T4, TP1, TP29
ERG No	171

International Maritime Dangerous Goods Code (IMDG)

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- Particulars in the shipper's declaration	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: benzyl benzoate, Hexyl cinnamaldehyde), 9, III
Class	9
Marine pollutant	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9, fish and tree



Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
- Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: benzyl benzoate, Hexyl cinnamaldehyde), 9, III
Class	9
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	9, fish and tree



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Special provisions (SP)	A97, A158, A197
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

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

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

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

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

Name of substance	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
Benzyl benzoate	Benzyl benzoate	120-51-4	fragrance	EU Fragrance Allergens
Hexyl cinnamaldehyde	Hexyl cinnam-aldehyde	101-86-0	fragrance	EU Fragrance Allergens
Tetrahydrolinalool		78-69-3	fragrance	
Benzaldehyde		100-52-7	fragrance	
Hedione		24851-98-7	fragrance	
Lilial	2-(4-tert-Butylbenzyl) propional-dehyde	80-54-6	fragrance	EU Fragrance Allergens
A,α-dimethylphenethyl butyrate		10094-34-5	fragrance	



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Name of substance	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
Ethyl Maltol		4940-11-8	fragrance	
Methyl Benzaldehyde		104-87-0	fragrance	
Patchouli ethanone		54464-57-2	fragrance	
Delta-Damascone		57378-68-4	fragrance	
Dorisyl		32210-23-4	fragrance	

- Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed

- Hazardous Substances List (MN-ERTK)

Name of substance	Name acc. to inventory	CAS No	References	Remarks
benzaldehyde	Benzaldehyde	100-52-7	I	

Legend

I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA

- Hazardous Substance List (NJ-RTK)

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
benzaldehyde	benzaldehyde	100-52-7		F2

Legend

F2 Flammable - Second Degree

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

Name of substance	Name acc. to inventory	CAS No	Classification
benzaldehyde	BENZALDEHYDE	100-52-7	

- Hazardous Substance List (RI-RTK)

Name of substance	Name acc. to inventory	CAS No	References
benzaldehyde	Benzaldehyde	100-52-7	F

Legend

F Flammability (NFPA®)

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

none of the ingredients are listed



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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
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
EU	ECSI	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

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

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
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
9.2	Solvent content: 63 %		yes
9.2	Solid content: 50 %		yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
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		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		Hazardous Substances List (MN-ERTK): change in the listing (table)	yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table)	yes
15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
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
EmS	Emergency Schedule



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Abbr.	Descriptions of used abbreviations
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
ERG No	Emergency Response Guidebook - Number
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
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
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
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
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
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).



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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
H227	Combustible liquid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.