



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

SECTION 1: Identification

1.1 Product identifier

Trade name

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Alternative number(s)

067788187613, UPN-159006

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

Relevant identified uses

Consumer uses: Air Freshener

1.3 Details of the supplier of the safety data sheet

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

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)
e-mail: Autocare.regulatory@energizer.com
Website: <https://data.energizer.com>

1.4 Emergency telephone number

Emergency information service

FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585
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.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	1B	Repr. 1B	H360
A.10	aspiration hazard	1	Asp. Tox. 1	H304
B.6	flammable liquid	4	Flam. Liq. 4	H227

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

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0

Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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

- Signal word danger

- Pictograms

GHS07, GHS08



- Hazard statements

H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360	May damage fertility or the unborn child.

- 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.
P301+P310	If swallowed: Immediately call a poison center/doctor.
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).
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash 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 national regulations.

- Hazardous ingredients for labelling

(R)-p-mentha-1,8-diene, Lilial, Distillates (petroleum), hydrotreated light, Orange Oil Valencia, Linalool, Acetyl cedrene, Citronellol, Aquanal, Geranyl acetate, Geraniol, β -pinene, Lemon Oil, Tetramethyl Acetyloctahydronaphthalenes

2.3 Other hazards

Hazards not otherwise classified

May be harmful if swallowed (GHS category 5: acutely toxic - oral).

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

Results of PBT and vPvB assessment

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Distillates (petroleum), hydrotreated light	CAS No 64742-47-8	10 – < 25	Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	 
benzyl benzoate	CAS No 120-51-4	10 – < 25	Acute Tox. 4 / H302	
3,5,5-trimethylhexyl acetate	CAS No 58430-94-7	5 – < 10	Skin Irrit. 2 / H315 Flam. Liq. 4 / H227	
(R)-p-mentha-1,8-diene	CAS No 5989-27-5	1 – < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  
Orange Oil Valencia	CAS No 8008-57-9 8028-48-6 68606-94-0	1 – < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  
Linalool	CAS No 78-70-6	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
α , α -dimethylphenethyl butyrate	CAS No 10094-34-5	1 – < 5	Skin Irrit. 2 / H315	
Dihydromyrcenol	CAS No 18479-58-8	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 4 / H227	
Citronellol	CAS No 106-22-9	1 – < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Lilial	CAS No 80-54-6	1 – < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 1B / H360 Flam. Liq. 4 / H227	 

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Undecavertol	CAS No 81782-77-6	1 – < 5	Flam. Liq. 4 / H227	
Allyl heptanoate	CAS No 142-19-8	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Flam. Liq. 4 / H227	
Allyl Caproate	CAS No 123-68-2	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Flam. Liq. 4 / H227	
Lemon Oil	CAS No 8008-56-8 84929-31-7	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Aquanal	CAS No 1205-17-0	< 1	Skin Sens. 1B / H317 Repr. 2 / H361	
Tetramethyl Acetyloctahydronaphthalenes	CAS No 54464-57-2	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
β-pinene	CAS No 127-91-3 18172-67-3	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Geranyl acetate	CAS No 105-87-3	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
Geraniol	CAS No 106-24-1	< 1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	
Acetyl cedrene	CAS No 32388-55-9	< 1	Skin Sens. 1B / H317	

Remarks

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.

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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

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

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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.

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.

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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
US	β-pinene	127-91-3	TLV®	20	112						AC-GIH® 2025
US	2,6-di-tert-butyl-p-cresol	128-37-0	PEL (CA)		10						Cal/OSHA PEL
US	2,6-di-tert-butyl-p-cresol	128-37-0	REL		10 (10 h)						NIOSH REL
US	butylated hydroxytoluene	128-37-0	TLV®		2					iv	AC-GIH® 2025

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
iv	inhalable fraction and vapor
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

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
benzyl benzoate	120-51-4	DNEL	14.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
benzyl benzoate	120-51-4	DNEL	70.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
benzyl benzoate	120-51-4	DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3,5,5-trimethylhexyl acetate	58430-94-7	DNEL	5.64 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
3,5,5-trimethylhexyl acetate	58430-94-7	DNEL	0.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	66.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	DNEL	31.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	DNEL	8.89 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	DNEL	185.8 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Linalool	78-70-6	DNEL	16.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	24.58 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	3.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
α,α-dimethylphenethyl butyrate	10094-34-5	DNEL	12.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
α,α-dimethylphenethyl butyrate	10094-34-5	DNEL	3.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	24.7 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	161.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Citronellol	106-22-9	DNEL	10 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Citronellol	106-22-9	DNEL	327.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	2,950 µg/cm ²	human, dermal	worker (industry)	acute - local effects
Lilial	80-54-6	DNEL	0.44 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
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/cm²	human, dermal	worker (industry)	chronic - local effects
Lilial	80-54-6	DNEL	410 µg/cm²	human, dermal	worker (industry)	acute - local effects
Undecavertol	81782-77-6	DNEL	98.7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Undecavertol	81782-77-6	DNEL	35.26 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Undecavertol	81782-77-6	DNEL	88.16 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Undecavertol	81782-77-6	DNEL	88.16 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Undecavertol	81782-77-6	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Undecavertol	81782-77-6	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Allyl heptanoate	142-19-8	DNEL	2.97 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl heptanoate	142-19-8	DNEL	0.84 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Allyl Caproate	123-68-2	DNEL	15 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl Caproate	123-68-2	DNEL	4.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lemon Oil	8008-56-8 84929-31-7	DNEL	23.3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Lemon Oil	8008-56-8 84929-31-7	DNEL	6.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aquanal	1205-17-0	DNEL	1.2 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Aquanal	1205-17-0	DNEL	0.17 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2	DNEL	30 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2	DNEL	28.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Tetramethyl Acetyl-octahydronaphthalenes	54464-57-2	DNEL	648 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
β-pinene	127-91-3 18172-67-3	DNEL	5.69 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
β-pinene	127-91-3 18172-67-3	DNEL	0.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
β-pinene	127-91-3 18172-67-3	DNEL	54 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Geranyl acetate	105-87-3	DNEL	62.59 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	35.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11.8 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	4.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/cm ²	human, dermal	worker (industry)	chronic - local effects
Acetyl cedrene	32388-55-9	DNEL	1.17 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Acetyl cedrene	32388-55-9	DNEL	0.333 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
benzyl benzoate	120-51-4	PNEC	0.003 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	0.322 µg/l	aquatic organisms	marine water	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	2.043 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	0.204 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	0.406 mg/kg	terrestrial organ-	soil	short-term (single

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
				isms		instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	2.66 mg/kg	aquatic organisms	water	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	77 µg/l	aquatic organisms	water	intermittent release
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	7.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	0.77 µg/l	aquatic organisms	marine water	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	2.895 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	0.29 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3,5,5-trimethylhexyl acetate	58430-94-7	PNEC	0.573 mg/kg	terrestrial organisms	soil	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	14 µg/l	aquatic organisms	freshwater	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.4 µg/l	aquatic organisms	marine water	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	3.85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.763 mg/kg	terrestrial organisms	soil	short-term (single instance)
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	PNEC	5.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	PNEC	0.54 µg/l	aquatic organisms	marine water	short-term (single instance)
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	PNEC	2.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	PNEC	1.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	PNEC	0.13 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	PNEC	0.261 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
Linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release
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)
α,α-dimethylphenethyl butyrate	10094-34-5	PNEC	4.766 µg/l	aquatic organisms	freshwater	short-term (single instance)
α,α-dimethylphenethyl butyrate	10094-34-5	PNEC	31.25 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
α,α-dimethylphenethyl butyrate	10094-34-5	PNEC	0.189 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
α,α-dimethylphenethyl butyrate	10094-34-5	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	111 mg/kg	aquatic organisms	water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.278 mg/l	aquatic organisms	water	intermittent release
Dihydromyrcenol	18479-58-8	PNEC	27.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	2.78 µg/l	aquatic organisms	marine water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Dihydromyrcenol	18479-58-8	PNEC	0.594 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.059 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citronellol	106-22-9	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Citronellol	106-22-9	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citronellol	106-22-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Citronellol	106-22-9	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citronellol	106-22-9	PNEC	0.026 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.004 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)
Undecavertol	81782-77-6	PNEC	0.04 µg/l	aquatic organisms	marine water	short-term (single instance)
Undecavertol	81782-77-6	PNEC	111.1 mg/kg	aquatic organisms	water	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.004 mg/l	aquatic organisms	water	intermittent release



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Undecavertol	81782-77-6	PNEC	0.76 µg/l	aquatic organisms	freshwater	short-term (single instance)
Undecavertol	81782-77-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Undecavertol	81782-77-6	PNEC	92 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Undecavertol	81782-77-6	PNEC	9.2 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Undecavertol	81782-77-6	PNEC	18 µg/kg	terrestrial organisms	soil	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	1.2 µg/l	aquatic organisms	water	intermittent release
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	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	0.001 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.002 mg/kg	terrestrial organisms	soil	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	1.17 µg/l	aquatic organisms	water	intermittent release
Allyl Caproate	123-68-2	PNEC	0.117 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.012 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)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant PNECs of components						
Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Allyl Caproate	123-68-2	PNEC	0.825 µg/kg	terrestrial organ-isms	soil	short-term (single instance)
Lemon Oil	8008-56-8 84929-31-7	PNEC	5.4 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Lemon Oil	8008-56-8 84929-31-7	PNEC	0.54 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Lemon Oil	8008-56-8 84929-31-7	PNEC	2.1 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Lemon Oil	8008-56-8 84929-31-7	PNEC	1.3 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Lemon Oil	8008-56-8 84929-31-7	PNEC	0.13 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Lemon Oil	8008-56-8 84929-31-7	PNEC	0.29 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.005 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.001 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Aquanal	1205-17-0	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.057 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.006 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.008 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Tetramethyl Acety-loctahydronaph-thalenes	54464-57-2	PNEC	4.4 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
Tetramethyl Acety-loctahydronaph-thalenes	54464-57-2	PNEC	0.44 µg/l	aquatic organ-isms	marine water	short-term (single instance)
Tetramethyl Acety-loctahydronaph-thalenes	54464-57-2	PNEC	10 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Tetramethyl Acety-loctahydronaph-thalenes	54464-57-2	PNEC	3.73 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Tetramethyl Acety-loctahydronaph-thalenes	54464-57-2	PNEC	0.75 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant PNECs of components						
Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2	PNEC	2.7 mg/kg	terrestrial organisms	soil	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	13.1 mg/kg	aquatic organisms	water	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	1.004 µg/l	aquatic organisms	freshwater	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.1 µg/l	aquatic organisms	marine water	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	3.26 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.337 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.034 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
β-pinene	127-91-3 18172-67-3	PNEC	0.067 mg/kg	terrestrial organisms	soil	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	37.2 µg/l	aquatic organisms	water	intermittent release
Geranyl acetate	105-87-3	PNEC	3.72 µg/l	aquatic organisms	freshwater	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.372 µg/l	aquatic organisms	marine water	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.442 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.044 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Geranyl acetate	105-87-3	PNEC	0.086 mg/kg	terrestrial organisms	soil	short-term (single instance)
Geraniol	106-24-1	PNEC	0.108 mg/l	aquatic organisms	water	intermittent release
Geraniol	106-24-1	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Geraniol	106-24-1	PNEC	0.7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0.115 mg/kg	aquatic organ-	freshwater sedi-	short-term (single

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
				isms	ment	instance)
Geraniol	106-24-1	PNEC	0.011 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.017 mg/kg	terrestrial organisms	soil	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	1.74 µg/l	aquatic organisms	freshwater	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	0.174 µg/l	aquatic organisms	marine water	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	24.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	2.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	4.87 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- Other protection measures

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

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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	not determined
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	≥146 °C at 101.3 kPa
Flash point	76 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	8.5 kPa at 25 °C
Density	Not available. This property is not relevant for the safety and classification of this product.
Vapor density	this information is not available
Relative density	Not available. This property is not relevant for the safety and classification of this product.
Solubility(ies)	insoluble in water

Partition coefficient

- n-octanol/water (log KOW)	Not available. This property is not relevant for the safety and classification of this product.
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Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Auto-ignition temperature	220 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
Viscosity	not determined
- Kinematic viscosity	Not available. This property is not relevant for the safety and classification of this product.
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2D (maximum permissible surface temperature on the equipment: 215°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.

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.

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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

Based on available data, the classification criteria are not met.
GHS of the United Nations, annex 4: May be harmful if swallowed.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
benzyl benzoate	120-51-4	oral	>2,000 mg/kg
3,5,5-trimethylhexyl acetate	58430-94-7	oral	4,250 mg/kg
(R)-p-mentha-1,8-diene	5989-27-5	oral	>2,000 mg/kg
Linalool	78-70-6	oral	2,790 mg/kg
Citronellol	106-22-9	oral	3,450 mg/kg
Citronellol	106-22-9	dermal	2,650 mg/kg
Lilial	80-54-6	oral	1,390 mg/kg
Lilial	80-54-6	dermal	>2,000 mg/kg
Allyl heptanoate	142-19-8	oral	218 mg/kg
Allyl heptanoate	142-19-8	dermal	810 mg/kg
Allyl Caproate	123-68-2	oral	100 mg/kg
Allyl Caproate	123-68-2	dermal	820 mg/kg
Allyl Caproate	123-68-2	inhalation: vapor	3 mg/l/4h
Aquanal	1205-17-0	oral	3,561 mg/kg
Aquanal	1205-17-0	dermal	>2,000 mg/kg
Geraniol	106-24-1	oral	3,600 mg/kg
Acetyl cedrene	32388-55-9	oral	4,500 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
(R)-p-mentha-1,8-diene	5989-27-5	3	

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

May damage the unborn child. May damage fertility.

Specific target organ toxicity - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

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
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 mg/l	goldfish (Carassius auratus)	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	water flea (Daphnia)	48 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	algae	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	LL50	5 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	1.4 mg/l	aquatic invertebrates	48 h
Distillates (petroleum), hydrotreated light	64742-47-8	LOEL	1 mg/l	algae	72 h
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

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
benzyl benzoate	120-51-4	NOEC	1.73 mg/l	aquatic invertebrates	48 h
3,5,5-trimethylhexyl acetate	58430-94-7	LC50	7.7 mg/l	fish	96 h
3,5,5-trimethylhexyl acetate	58430-94-7	EC50	>5.4 mg/l	aquatic invertebrates	24 h
3,5,5-trimethylhexyl acetate	58430-94-7	ErC50	>3.8 mg/l	algae	72 h
3,5,5-trimethylhexyl acetate	58430-94-7	NOEC	4 mg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	LC50	720 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	688 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	ErC50	0.32 mg/l	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.09 mg/l	algae	48 h
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	LL50	5.65 mg/l	fish	96 h
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	EL50	1.4 mg/l	aquatic invertebrates	24 h
Orange Oil Valencia	8008-57-9 8028-48-6 68606-94-0	NOELR	4 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
Linalool	78-70-6	NOEC	<3.5 mg/l	fish	96 h
α,α-dimethylphenethyl butyrate	10094-34-5	EC50	21.3 mg/l	aquatic invertebrates	24 h
Dihydromyrcenol	18479-58-8	LC50	27.8 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	EC50	38 mg/l	aquatic invertebrates	48 h
Dihydromyrcenol	18479-58-8	ErC50	80 mg/l	algae	72 h
Dihydromyrcenol	18479-58-8	NOEC	<3.5 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	LOEC	50 mg/l	algae	72 h
Citronellol	106-22-9	LC50	14.66 mg/l	fish	96 h
Citronellol	106-22-9	EC50	17.48 mg/l	aquatic invertebrates	48 h
Citronellol	106-22-9	NOEC	4.6 mg/l	fish	96 h



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
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
Lilial	80-54-6	NOEC	1.28 mg/l	fish	96 h
Undecavertol	81782-77-6	EC50	1.4 mg/l	algae	72 h
Undecavertol	81782-77-6	ErC50	3.6 mg/l	algae	72 h
Undecavertol	81782-77-6	NOEC	1.3 mg/l	algae	72 h
Allyl heptanoate	142-19-8	LC50	0.201 mg/l	fish	24 h
Allyl heptanoate	142-19-8	EC50	0.89 mg/l	aquatic invertebrates	48 h
Allyl heptanoate	142-19-8	ErC50	>4.6 mg/l	algae	72 h
Allyl heptanoate	142-19-8	NOEC	0.158 mg/l	algae	72 h
Allyl heptanoate	142-19-8	LOEC	0.505 mg/l	algae	72 h
Allyl Caproate	123-68-2	LC50	0.201 mg/l	fish	24 h
Allyl Caproate	123-68-2	EC50	2 mg/l	aquatic invertebrates	48 h
Allyl Caproate	123-68-2	ErC50	>4.6 mg/l	algae	72 h
Allyl Caproate	123-68-2	NOEC	0.158 mg/l	algae	72 h
Allyl Caproate	123-68-2	LOEC	0.505 mg/l	algae	72 h
Lemon Oil	8008-56-8 84929-31-7	LL50	5.65 mg/l	fish	96 h
Lemon Oil	8008-56-8 84929-31-7	EL50	1.4 mg/l	aquatic invertebrates	24 h
Lemon Oil	8008-56-8 84929-31-7	NOELR	4 mg/l	fish	96 h
Aquanal	1205-17-0	LC50	5.3 mg/l	fish	96 h
Aquanal	1205-17-0	EC50	17 mg/l	aquatic invertebrates	24 h
Aquanal	1205-17-0	ErC50	28 mg/l	algae	72 h
Aquanal	1205-17-0	LOEC	4.5 mg/l	fish	96 h
Aquanal	1205-17-0	NOEC	2.4 mg/l	fish	96 h
Tetramethyl Acetyloc-tahydronaphthalenes	54464-57-2	LC50	1.3 mg/l	fish	96 h
Tetramethyl Acetyloc-tahydronaphthalenes	54464-57-2	EC50	1.38 mg/l	aquatic invertebrates	48 h
Tetramethyl Acetyloc-	54464-57-2	ErC50	>2.6 mg/l	algae	24 h

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
tahydronaphthalenes					
Tetramethyl Acetyloc-tahydronaphthalenes	54464-57-2	NOEC	≥2.6 mg/l	algae	72 h
β-pinene	127-91-3 18172-67-3	LC50	0.68 mg/l	fish	96 h
β-pinene	127-91-3 18172-67-3	EC50	1.09 mg/l	aquatic invertebrates	48 h
β-pinene	127-91-3 18172-67-3	ErC50	0.7 mg/l	algae	72 h
Geranyl acetate	105-87-3	LC50	68.12 mg/l	fish	96 h
Geranyl acetate	105-87-3	EC50	14.1 mg/l	aquatic invertebrates	48 h
Geranyl acetate	105-87-3	ErC50	3.72 mg/l	algae	72 h
Geranyl acetate	105-87-3	NOEC	10 mg/l	fish	96 h
Geraniol	106-24-1	LC50	22 mg/l	fish	96 h
Geraniol	106-24-1	EC50	10.8 mg/l	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13.1 mg/l	algae	72 h
Geraniol	106-24-1	NOEC	10 mg/l	fish	96 h
Acetyl cedrene	32388-55-9	LC50	2.3 mg/l	fish	96 h
Acetyl cedrene	32388-55-9	EC50	0.86 mg/l	aquatic invertebrates	48 h
Acetyl cedrene	32388-55-9	ErC50	>4.3 mg/l	algae	96 h
Acetyl cedrene	32388-55-9	NOEC	1.07 mg/l	algae	96 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	0.89 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), hydrotreated light	64742-47-8	LOEL	1.2 mg/l	aquatic invertebrates	21 d
benzyl benzoate	120-51-4	LC50	11 mg/l	aquatic invertebrates	24 h
benzyl benzoate	120-51-4	EC50	>10,000 mg/l	microorganisms	3 h
benzyl benzoate	120-51-4	NOEC	0.023 mg/l	fish	35 d
benzyl benzoate	120-51-4	LOEC	0.049 mg/l	fish	35 d
3,5,5-trimethylhexyl	58430-94-7	EC50	>5.4 mg/l	aquatic invertebrates	24 h



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
acetate					
3,5,5-trimethylhexyl acetate	58430-94-7	NOEC	100 mg/l	microorganisms	32 d
(R)-p-mentha-1,8-diene	5989-27-5	EC50	<0.67 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LC50	0.41 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.37 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LOEC	0.67 mg/l	fish	8 d
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
α,α -dimethylphenethyl butyrate	10094-34-5	EC50	684 mg/l	microorganisms	3 h
α,α -dimethylphenethyl butyrate	10094-34-5	NOEC	312.5 mg/l	microorganisms	3 h
α,α -dimethylphenethyl butyrate	10094-34-5	LOEC	1,000 mg/l	microorganisms	3 h
Dihydromyrcenol	18479-58-8	EC50	17 mg/l	aquatic invertebrates	21 d
Dihydromyrcenol	18479-58-8	NOEC	9.5 mg/l	aquatic invertebrates	21 d
Citronellol	106-22-9	EC50	>10,000 mg/l	microorganisms	30 min
Lilial	80-54-6	NOEC	>200 μ g/l	fish	21 d
Undecavertol	81782-77-6	NOEC	25 μ g/l	aquatic invertebrates	21 d
Aquanal	1205-17-0	EC50	$\leq$ 1,000 mg/l	microorganisms	3 h
Aquanal	1205-17-0	NOEC	100 mg/l	microorganisms	3 h
Tetramethyl Acetyloc-tahydronaphthalenes	54464-57-2	LC50	>0.3 mg/l	fish	30 d
Tetramethyl Acetyloc-tahydronaphthalenes	54464-57-2	EC50	>0.448 mg/l	aquatic invertebrates	21 d
Tetramethyl Acetyloc-tahydronaphthalenes	54464-57-2	NOEC	0.54 mg/l	fish	30 d
Tetramethyl Acetyloc-tahydronaphthalenes	54464-57-2	LOEC	0.29 mg/l	fish	30 d
β -pinene	127-91-3 18172-67-3	EC50	326 mg/l	microorganisms	3 h
Geraniol	106-24-1	EC50	70 mg/l	microorganisms	30 min
Acetyl cedrene	32388-55-9	EC50	0.32 mg/l	aquatic invertebrates	21 d
Acetyl cedrene	32388-55-9	NOEC	0.087 mg/l	aquatic invertebrates	21 d

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Acetyl cedrene	32388-55-9	LOEC	0.23 mg/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

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

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

DOT	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

14.2 UN proper shipping name

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

DOT	Environmentally hazardous substance, liquid, n.o.s.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	benzyl benzoate, 3,5,5-trimethylhexyl acetate
14.3 Transport hazard class(es)	
DOT	9
IMDG-Code	9
ICAO-TI	9
14.4 Packing group	
DOT	III
IMDG-Code	III
ICAO-TI	III
14.5 Environmental hazards	
Environmentally hazardous substance (aquatic environment)	benzyl benzoate, 3,5,5-trimethylhexyl acetate
14.6 Special precautions for user	
There is no additional information.	
14.7 Transport in bulk according to IMO instruments	
The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

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) - Additional information

Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: benzyl benzoate, 3,5,5-trimethylhexyl acetate), 9, III
Danger label(s)	9, fish and tree
	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	8, 146, 173, 335, IB3, T4, TP1, TP29

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

ERG No 171

International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: benzyl benzoate, 3,5,5-trimethylhexyl acetate), 9, III

Marine pollutant YES (hazardous to the aquatic environment) (Benzyl benzoate)

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) - Additional information

Particulars in the shipper's declaration UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: benzyl benzoate, 3,5,5-trimethylhexyl acetate), 9, III

Environmental hazards YES (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



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)

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



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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	CAS No	Functionality	Authoritative Lists
Distillates (petroleum), hydrotreated light	64742-47-8	solvents	
benzyl benzoate	120-51-4	fragrance	EU Fragrance Allergens
C11-13 Synthetic Isoparaffin	90622-58-5	fragrance	
3,5,5-trimethylhexyl acetate	58430-94-7	fragrance	
Tricyclodeceny propionate	68912-13-0 17511-60-3	fragrance	
Hedione	24851-98-7	fragrance	
(R)-p-mentha-1,8-diene	5989-27-5	fragrance	EU Fragrance Allergens
Orange Oil Valencia	8028-48-6		EU Fragrance Allergens
Orange Oil Valencia	8028-48-6		EU Fragrance Allergens
Ethylene brassylate	105-95-3	fragrance	
Linalool	78-70-6	fragrance	EU Fragrance Allergens
α,α -dimethylphenethyl butyrate	10094-34-5	fragrance	
Aldehyde C-14	104-67-6	fragrance	
Dihydromyrcenol	18479-58-8	fragrance	
cis-2-tert-butylcyclohexyl acetate	20298-69-5 88-41-5	fragrance	
Citronellol	106-22-9	fragrance	EU Fragrance Allergens
Beta-ionone	79-77-6	fragrance	
BHT	128-37-0	preservative	
Lilial	80-54-6		EC Annex VI CMRs - Cat. 1B
Undecavertol	81782-77-6	fragrance	
DMBC Acetate	151-05-3		EU Fragrance Allergens
Allyl heptanoate	142-19-8	fragrance	
Allyl Caproate	123-68-2	fragrance	
Lemon Oil	84929-31-7		EU Fragrance Allergens
decanal	112-31-2	fragrance	



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Name of substance	CAS No	Functionality	Authoritative Lists
Aqualan	1205-17-0	fragrance	
Citronellyl acetate	150-84-5	fragrance	
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2		EU Fragrance Allergens
β -pinene	18172-67-3		EU Fragrance Allergens
Terpineol	98-55-5		EU Fragrance Allergens
Geranyl acetate	105-87-3		EU Fragrance Allergens
Geraniol	106-24-1	fragrance	EU Fragrance Allergens
Acetyl cedrene	32388-55-9		EU Fragrance Allergens
citral	5392-40-5	fragrance	EU Fragrance Allergens

- Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
(R)-p-mentha-1,8-diene	138-86-3		F2

Legend

F2 Flammable - Second Degree

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
Personal protection	-	



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

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	AIIC	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
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 (ACTIVE)

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Legend

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
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.	The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources.	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: (R)-p-mentha-1,8-diene, Distillates (petroleum), hydrotreated light, Linal, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Linalool, Acetyl cedrene, Citronellol, Aquanal, Geranyl acetate, Geraniol, β -pinene	- Hazardous ingredients for labelling: (R)-p-mentha-1,8-diene, Linal, Distillates (petroleum), hydrotreated light, Orange Oil Valencia, Linalool, Acetyl cedrene, Citronellol, Aquanal, Geranyl acetate, Geraniol, β -pinene, Lemon Oil, Tetramethyl Acetyloctahydronaphthalenes	yes
2.3		Hazards not otherwise classified: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components: change in the listing (table)	yes
8.1		Relevant PNECs of components: change in the listing (table)	yes
8.2	Respiratory protection:		yes



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0

Revision: 2025-09-19

Replaces version of: 2024-05-17 (5)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
	In case of inadequate ventilation wear respiratory protection.		
9.1		Explosive limits: not determined	yes
9.1	Density: not determined	Density: Not available. This property is not relevant for the safety and classification of this product.	yes
9.1	Relative density: Information on this property is not available	Relative density: Not available. This property is not relevant for the safety and classification of this product.	yes
9.1	Solubility(ies): not determined	Solubility(ies): insoluble in water	yes
9.1	- n-octanol/water (log KOW): this information is not available	- n-octanol/water (log KOW): Not available. This property is not relevant for the safety and classification of this product.	yes
9.1		Decomposition temperature: not relevant	yes
9.1		Kinematic viscosity: Not available. This property is not relevant for the safety and classification of this product.	yes
11.1	Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if swallowed or if inhaled.	Acute toxicity: Based on available data, the classification criteria are not met.GHS of the United Nations, annex 4: May be harmful if swallowed.	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
11.1	Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.	Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.	yes
11.1	Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.	Germ cell mutagenicity: Based on available data, the classification criteria are not met.	yes
11.1	Carcinogenicity: Shall not be classified as carcinogenic.	Carcinogenicity: Based on available data, the classification criteria are not met.	yes
11.1	Specific target organ toxicity - single exposure: Shall not be classified as a specific target organ toxicant (single exposure).	Specific target organ toxicity - single exposure: Based on available data, the classification criteria are not met.	yes
11.1	Specific target organ toxicity - repeated exposure: May cause damage to organs (nervous system) through prolonged or repeated exposure.	Specific target organ toxicity - repeated exposure: Based on available data, the classification criteria are not met.	yes
11.1		Specific target organ toxicity - repeated exposure: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mix-	yes



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Air Freshener Essential Blends Vent Clip Citrus Pomegranate

Version number: 6.0
Replaces version of: 2024-05-17 (5)

Revision: 2025-09-19

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
		ture: change in the listing (table)	
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.	yes
15.1	Toxic Substance Control Act (TSCA): not all ingredients are listed (ACTIVE)		yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1	Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II): none of the ingredients are listed		yes
15.1	New Zealand HSNO Approval Number: HSR002574 Food Additives and Fragrance Materials (Combustible) Group Standard 2020		yes
15.1		National inventories: change in the listing (table)	yes

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.
Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

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