

acc. to 29 CFR 1910.1200 App D

### **Armor All FRESHfx Island Oasis Rapid Odor Eliminator - Aerosol**

Version number: GHS 7.0 Revision: 2020-10-21 Replaces version of: 2020-10-12 (GHS 6)

#### **SECTION 1: Identification**

#### 1.1 Product identifier

Trade name Armor All FRESHfx Island Oasis Rapid Odor Elim-

inator - Aerosol

Alternative number(s) 070612191441

#### 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 state- ment
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.6	carcinogenicity	1A	Carc. 1A	H350
A.7	reproductive toxicity	2	Repr. 2	H361f
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
B.3	flammable aerosol	2	Flam. Aerosol 2	H223

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Section	Hazard class	Category	Hazard class and category	Hazard state- ment
B.5	gases under pressure	С	Press. Gas C	H280

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Contains gas under pressure; may explode if heated.

#### 2.2 **Label elements**

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

- Signal word danger

- Pictograms

GHS02, GHS04, GHS07,

GHS08







#### - Hazard statements

H223 Flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H361f Suspected of damaging fertility.

May cause damage to organs (nervous system) through prolonged or repeated exposure. H373

#### - Precautionary statements

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.

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray. P260

P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P308+P313 If exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

Specific treatment (see on this label). P321

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse. P363

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regula-

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2.2.1.7 - Hazardous ingredients for labelling

ethanol, (R)-p-mentha-1,8-diene, Distillates (petroleum), hydrotreated light, Lilial

#### 2.3 Other hazards

Hazards not otherwise classified

Contains (R)-p-mentha-1,8-diene, Linalool, Lilial, Hexyl cinnamaldehyde, Benzyl salicylate, Cyclamal. May produce an allergic reaction.

Toxic to aquatic life with long lasting effects (GHS category 2: 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
Tetrafluoropropene	CAS No 29118-24-9	50 – < 75	Press. Gas L / H280	<b>\leftrightarrow</b>
ethanol	CAS No 64-17-5	25 - < 50	Eye Irrit. 2 / H319 Carc. 1A / H350 Flam. Liq. 2 / H225	
benzyl benzoate	CAS No 120-51-4	1-<5	Acute Tox. 4 / H302	<b>(1)</b>
Distillates (petroleum), hy- drotreated light	CAS No 64742-47-8	1-<5	Acute Tox. 3 / H331 STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Allyl heptanoate	CAS No 142-19-8	<1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Flam. Liq. 4 / H227	
(R)-p-mentha-1,8-diene	CAS No 5989-27-5	<1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 3 / H226	<b>♦</b> (!>
Linalool	CAS No 78-70-6	<1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	<u>(1)</u>

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Cyclamal	CAS No 103-95-7	<1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	<u>(1)</u>

For full text of abbreviations: see SECTION 16.

#### **SECTION 4: First-aid measures**

#### 4.1 Description of first- aid measures

#### General notes

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

#### Following inhalation

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

#### Following skin contact

Thaw frosted parts with lukewarm water. Do not rub affected area.

#### 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

Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

Contact with the product can cause burns and/or frostbite. Contains gas under pressure; may explode if heated.

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#### 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.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

#### 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

Level 1 Aerosol.

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#### Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

- 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

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Nota tion	Sourc e
US	ethanol	64-17-5	TLV®			1,000					AC- GIH® 2019
US	ethyl alcohol	64-17-5	REL	1,000 (10 h)	1,900 (10 h)						NIOSH REL
US	ethyl alcohol (ethanol)	64-17-5	PEL (CA)	1,000	1,900						Cal/ OSHA PEL
US	ethyl alcohol (ethanol)	64-17-5	PEL	1,000	1,900						29 CFR 1910.1 000

Notation

TWA

Ceiling-C ceiling value is a limit value above which exposure should not occur

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)

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

#### Relevant DNELs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethanol	64-17-5	DNEL	1,900 mg/ m³	human, inhalatory	worker (industry)	acute - local ef- fects
ethanol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - system- ic effects

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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
ethanol	64-17-5	DNEL	950 mg/m³	human, inhalatory	worker (industry)	chronic - system- ic effects
benzyl benzoate	120-51-4	DNEL	5.1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - system- ic effects
benzyl benzoate	120-51-4	DNEL	102 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
benzyl benzoate	120-51-4	DNEL	2.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
Allyl heptanoate	142-19-8	DNEL	2.97 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - system- ic effects
Allyl heptanoate	142-19-8	DNEL	0.84 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
(R)-p-mentha-1,8- diene	5989-27-5	DNEL	66.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - system- ic effects
(R)-p-mentha-1,8- diene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - system- ic effects
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Cyclamal	103-95-7	DNEL	1.67 mg/kg	human, dermal	worker (industry)	chronic - system- ic effects
Cyclamal	103-95-7	DNEL	5.83 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - system- ic effects

#### Relevant PNECs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
ethanol	64-17-5	PNEC	0.96 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
ethanol	64-17-5	PNEC	0.79 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)

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#### Relevant PNECs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
ethanol	64-17-5	PNEC	580 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treat- ment plant (STP)	short-term (single instance)
ethanol	64-17-5	PNEC	3.6 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
ethanol	64-17-5	PNEC	0.63 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
ethanol	64-17-5	PNEC	2.75 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease
benzyl benzoate	120-51-4	PNEC	0.017 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	0.002 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	100 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treat- ment plant (STP)	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	10.66 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	1.07 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
benzyl benzoate	120-51-4	PNEC	2.12 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	51.78 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	water	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	1.2 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease
Allyl heptanoate	142-19-8	PNEC	0.12 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	marine water	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treat- ment plant (STP)	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.001 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.002 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

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#### Relevant PNECs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	14 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	1.4 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	1.8 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treat- ment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	3.85 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	0.385 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8- diene	5989-27-5	PNEC	0.763 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	7.8 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	water	short-term (single instance)
Linalool	78-70-6	PNEC	2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease
Linalool	78-70-6	PNEC	0.2 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Linalool	78-70-6	PNEC	0.02 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treat- ment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
Cyclamal	103-95-7	PNEC	1.09 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.11 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)
Cyclamal	103-95-7	PNEC	1 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treat- ment plant (STP)	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.126 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)

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#### Relevant PNECs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
Cyclamal	103-95-7	PNEC	0.0126 <sup>mg</sup> /	aquatic organisms	marine sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	33.3 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	water	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.0245 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)
Cyclamal	103-95-7	PNEC	10.92 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Other protection measures

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

Respiratory protection

During spraying wear suitable respiratory equipment.

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

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Physical state	aerosol (spray aerosol)
Color	various
Odor	characteristic
Other safety parameters	
pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	64.7 °C at 1,013 hPa
Flash point	9.7 °C at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	flammable aerosol in accordance with GHS criteria
Explosive limits	
- Lower explosion limit (LEL)	2.5 vol%
- Upper explosion limit (UEL)	13.5 vol%
Vapor pressure	169.3 hPa at 25 °C
Density	not determined
Vapor density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available

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Auto-ignition temperature	455 °C (auto-ignition temperature (liquids and gases))
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidizing properties	none

#### 9.2 Other information

Propellant content	65 %
Temperature class (USA, acc. to NEC 500)	T1 (maximum permissible surface temperature on the equipment: 450°C)

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

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

#### If heated:

Danger of explosion, Gas under pressure, Danger of bursting container

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

#### 10.5 Incompatible materials

Oxidizers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Distillates (petroleum), hydrotreated light	64742-47-8	inhalation: vapor	5.28 <sup>mg</sup> / <sub>l</sub> /4h
Allyl heptanoate	142-19-8	oral	218 <sup>mg</sup> / <sub>kg</sub>
Allyl heptanoate	142-19-8	dermal	810 <sup>mg</sup> / <sub>kg</sub>

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

May cause cancer.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
ethanol	64-17-5	1	
(R)-p-mentha-1,8-diene	5989-27-5	3	

#### Legend

1 Carcinogenic to humans

3 Not classifiable as to carcinogenicity in humans

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### **Armor All FRESHfx Island Oasis Rapid Odor Eliminator - Aerosol**

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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

May cause damage to organs (nervous system) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	nervous system	if exposed

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

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
ethanol	64-17-5	LC50	15,400 <sup>mg</sup> / <sub>l</sub>	fish	96 h
ethanol	64-17-5	EC50	12,700 <sup>mg</sup> / <sub>l</sub>	fish	96 h
ethanol	64-17-5	ErC50	22,000 <sup>mg</sup> / <sub>l</sub>	algae	96 h
benzyl benzoate	120-51-4	LC50 2.32 <sup>mg</sup> / <sub>l</sub>		fish	96 h
benzyl benzoate	120-51-4	EC50 4.26 <sup>mg</sup> / <sub>l</sub> aquatic inverteb	4.26 <sup>mg</sup> / <sub>l</sub> aquatic invertebrates		24 h
benzyl benzoate	120-51-4	ErC50	0.475 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	LL50	5 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	1.4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 <sup>mg</sup> / <sub>l</sub>	goldfish (Carassius auratus)	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 <sup>mg</sup> / <sub>I</sub>	water flea (Daphnia)	48 h

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#### 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	EC50	>1,000 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Allyl heptanoate	142-19-8	LC50	0.201 <sup>mg</sup> / <sub>l</sub>	fish	24 h
Allyl heptanoate	142-19-8	EC50	0.89 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Allyl heptanoate	142-19-8	ErC50	>4.6 <sup>mg</sup> / <sub>l</sub>	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5	LC50	720 <sup>µg</sup> / <sub>I</sub>	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	688 <sup>µg</sup> / <sub>I</sub>	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	ErC50	0.32 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Linalool	78-70-6	LC50	27.8 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Linalool	78-70-6	EC50	59 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 <sup>mg</sup> / <sub>l</sub>	algae	96 h
Cyclamal	103-95-7	LC50	1.092 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Cyclamal	103-95-7	EC50	1.4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Cyclamal	103-95-7	ErC50	4.3 <sup>mg</sup> / <sub>l</sub>	algae	72 h

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethanol	64-17-5	EC50	4,432 <sup>mg</sup> / <sub>l</sub>	algae	7 d
ethanol	64-17-5	LC50	1,806 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	10 d
ethanol	64-17-5	ErC50	675 <sup>mg</sup> / <sub>l</sub>	algae	4 d
benzyl benzoate	120-51-4	LC50	11 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	24 h
benzyl benzoate	120-51-4	EC50	>10,000 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	0.89 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d
(R)-p-mentha-1,8-diene	5989-27-5	EC50	<0.67 <sup>mg</sup> / <sub>l</sub>	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LC50	0.41 <sup>mg</sup> / <sub>l</sub>	fish	8 d

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Linalool	78-70-6	LC50	27.8 <sup>mg</sup> / <sub>l</sub>	fish	24 h
Linalool	78-70-6	EC50	>100 <sup>mg</sup> / <sub>I</sub>	microorganisms	30 min
Cyclamal	103-95-7	EC50	100 <sup>mg</sup> / <sub>l</sub>	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

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.

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### **SECTION 14: Transport information**

**14.1 UN number** 1950

**14.2 UN proper shipping name** Aerosols

14.3 Transport hazard class(es)

Class 2.1 (gases) (aerosol) (flammable)

**14.4 Packing group** not assigned to a packing group

**14.5 Environmental hazards** non-environmentally hazardous acc. to the danger-

ous goods regulations

14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

DOT

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

Index number 1950
Proper shipping name Aerosols

- Particulars in the shipper's declaration UN1950, Aerosols, 2.1

- Reportable quantity (RQ) 407,790,894 lbs (185,137,066 kg) (methanol) (acetaldehyde)

Class 2.1 Danger label(s) 2.1



Special provisions (SP) N82 ERG No 126

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

UN number 1950

Proper shipping name AEROSOLS

- Particulars in the shipper's declaration UN1950, AEROSOLS, 2.1, 9.7°C c.c.

Class 2.1 Marine pollutant -

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Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959

Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
EmS F-D, S-U

Stowage category -

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

UN number 1950

Proper shipping name Aerosols, flammable

- Particulars in the shipper's declaration UN1950, Aerosols, flammable, 2.1

Class 2.1 Danger label(s) 2.1



Special provisions (SP) A145, A167

Excepted quantities (EQ) E0
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

#### **Right to Know Hazardous Substance List**

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

Name of substance	Name acc. to inventory	CAS No	Functional- ity	Authoritative Lists
Tetrafluoropropene		29118-24-9	propellant	
Ethanol		64-17-5	solvents	
Benzyl benzoate	Benzyl benzoate	120-51-4	fragrance	EU Fragrance Allergens
Distillates (petroleum), hydro- treated light		64742-47-8	solvents	
Hexyl cinnamaldehyde	Hexyl cinnam-aldehyde	101-86-0	fragrance	EU Fragrance Allergens
Dihydromyrcenol		18479-58-8	fragrance	
Lilial	2-(4-tert-Butylbenzyl) propional- dehyde	80-54-6	fragrance	EU Fragrance Allergens
Linalool	Linalool	78-70-6	fragrance	EU Fragrance Allergens
Benzyl salicylate	Benzyl salicylate	118-58-1	fragrance	EU Fragrance Allergens
Cyclamal		103-95-7	fragrance	
Allyl heptanoate		142-19-8	fragrance	
2-Ethyl-4-(2,2,3-trimethyl-3-cyc- lopenten-1-yl)-2-buten-1-ol		28219-61-6 106185-75- 5	fragrance	
A,α-dimethylphenethyl butyrate		10094-34-5	fragrance	
(R)-p-mentha-1,8-diene	d-Limonene	5989-27-5	fragrance	EU Fragrance Allergens
Tert-butyl alcohol	Tertiary butyl alcohol (TBA)	75-65-0	solvents	CA NLs
Bitrex		3734-33-6	bitterant	
Hexyl salicylate		6259-76-3	fragrance	
Citral	Citral	5392-40-5	fragrance	EU Fragrance Allergens
Allyl 3-cyclohexylpropionate		2705-87-5	fragrance	
Methyl Ionone	3-Methyl-4-(2,6,6-tri-methyl-2- cyclohexen-1-yl)-3-buten-2-one	127-51-5	fragrance	EU Fragrance Allergens
Aquanal		1205-17-0	fragrance	
Delta-Damascone		57378-68-4	fragrance	
Geraniol	Geraniol	106-24-1	fragrance	EU Fragrance Allergens
Lyral	Hydroxy-methylpentyl-cyclo- hexenecarboxalde-hyde	31906-04-4	fragrance	EU Fragrance Allergens

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Name of substance	Name acc. to inventory	CAS No	Functional- ity	Authoritative Lists
Acetyl cedrene		32388-55-9	fragrance	

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

Name of substance	Name acc. to inventory	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Thres hold	De Minimis Concentra- tion Threshold
tert-butyl alcohol	tert-Butyl alcohol	75-65-0				1.0 %

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

Name of substance	Name acc. to inventory	CAS No	References	Remarks
ethanol	Ethyl alcohol (Ethanol)	64-17-5	A, O	

#### Legend

American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division 0 cupational Safety and Health Division

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

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
ethanol	ethyl alcohol (ethanol)	64-17-5		CA MU TE F3
(R)-p-mentha-1,8-diene	dipentene	138-86-3		F2
tert-butyl alcohol	tert-butyl alcohol	75-65-0		F3

#### Legend

CA

Carcinogenic Flammable - Second Degree F2 Flammable - Third Degree F3

Mutagenic Teratogenic

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

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Name of substance	Name acc. to inventory	CAS No	Classification
ethanol	ETHANOL	64-17-5	
tert-butyl alcohol	2-PROPANOL, 2-METHYL-	75-65-0	E

Legend

Environmental hazard

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

Name of substance	Name acc. to inventory	CAS No	References
ethanol	ethyl alcohol	64-17-5	Т, F
tert-butyl alcohol	2-methyl-2-propanol	75-65-0	F

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

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

#### Proposition 65 List of chemicals

Name acc. to inventory	CAS No	Remarks	Type of the toxicity
ethanol (ethyl alcohol)	64-17-5	in alcoholic beverages	developmental
acetaldehyde	75-07-0		cancer
methanol	67-56-1		developmental

#### 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	1	material that must be preheated 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	-	

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#### **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	1	material that must be preheated before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent 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	not all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

Australian Inventory of Chemical Substances Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) AICS CICR

CSCL-ENCS DSL

Domestic Substances List (DSL)

**ECSI** 

EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China **IECSC** 

**INSQ** 

National Inventory of Chemical Substances
Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory ISHA-ENCS

KECI NZIoC New Zealand Inventory of Chemicals

**PICCS** Philippine Inventory of Chemicals and Chemical Substances (PICCS)

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Legend

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- relev- ant
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mix- ture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes

#### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard

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Descriptions of used abbreviations
Descriptions of used abbreviations
Acute Toxicity Estimate
California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carcinogenicity
Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling value
Department of Environmental Protection Code
Dangerous Goods Regulations (see IATA/DGR)
Derived No-Effect Level
Department of Transportation (USA)
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
European Inventory of Existing Commercial Chemical Substances
Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
European List of Notified Chemical Substances
Emergency Schedule
≡ 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
Emergency Response Guidebook - Number
Seriously damaging to the eye
Irritant to the eye
Flammable liquid
"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
Higher hazard substance
International Air Transport Association
Dangerous Goods Regulations (DGR) for the air transport (IATA)
International Civil Aviation Organization
International Maritime Dangerous Goods Code
Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
Lower hazard substance

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Abbr.	Descriptions of used abbreviations
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
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
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

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

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### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H223	Flammable aerosol.
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs (nervous system) through prolonged or repeated exposure.

#### Disclaimer

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

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