



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol**  
Alternative number(s) 070612185068

#### 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](mailto:ConsumerServiceEU@energizer.com)

#### 1.4 Emergency telephone number

Emergency information service 1-314-985-1511 Int'l: 1-800-526-4727  
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.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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Version number: GHS 7.0  
Replaces version of: 2020-10-12 (GHS 6)

Revision: 2020-10-21

Section	Hazard class	Category	Hazard class and category	Hazard statement
B.5	gases under pressure	C	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.  
H373 May cause damage to organs (nervous system) through prolonged or repeated exposure.

- 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.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
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.  
P321 Specific treatment (see on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
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 regulations.



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### 2.2.1.7 - Hazardous ingredients for labelling

ethanol, Patchouli ethanone, Distillates (petroleum), hydrotreated light, Lilial

### 2.3 Other hazards

Hazards not otherwise classified

Contains Linalool, Hydroxycitronellal, Lilial, Cyclamal, Patchouli ethanone, Hexyl cinnamaldehyde, Geraniol, Benzyl salicylate, Lyrall, Terpineol. May produce an allergic reaction.

Toxic to aquatic life (GHS category 2: aquatic toxicity - acute).

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	
ethanol	CAS No 64-17-5	25 - < 50	Eye Irrit. 2 / H319 Carc. 1A / H350 Flam. Liq. 2 / H225	
Distillates (petroleum), hydrotreated 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	
Linalool	CAS No 78-70-6	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Hydroxycitronellal	CAS No 107-75-5	< 1	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Cyclamal	CAS No 103-95-7	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
Geraniol	CAS No 106-24-1	< 1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Lyral	CAS No 31906-04-4	< 1	Skin Sens. 1B / H317	
Terpineol	CAS No 8000-41-7	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Flam. Liq. 4 / H227	

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



## Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

### Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

Version number: GHS 7.0  
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#### 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.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

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

### 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.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### 7.2 Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

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)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
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 1910.1000

**Notation**

Ceiling-C  
STEL

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

TWA

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

Relevant DNELs of components of the mixture

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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

Version number: GHS 7.0  
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Revision: 2020-10-21

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
			m <sup>3</sup>			fects
ethanol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
ethanol	64-17-5	DNEL	950 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Hydroxycitronellal	107-75-5	DNEL	18 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hydroxycitronellal	107-75-5	DNEL	1.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydroxycitronellal	107-75-5	DNEL	500 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Cyclamal	103-95-7	DNEL	1.67 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Cyclamal	103-95-7	DNEL	5.83 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	161.6 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Terpineol	8000-41-7	DNEL	44.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Terpineol	8000-41-7	DNEL	6.35 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### 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 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethanol	64-17-5	PNEC	0.79 mg/l	aquatic organisms	marine water	short-term (single instance)
ethanol	64-17-5	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethanol	64-17-5	PNEC	3.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethanol	64-17-5	PNEC	0.63 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethanol	64-17-5	PNEC	2.75 mg/l	aquatic organisms	water	intermittent release
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)
Hydroxycitronellal	107-75-5	PNEC	316 µg/l	aquatic organisms	water	intermittent release
Hydroxycitronellal	107-75-5	PNEC	31.6 µg/l	aquatic organisms	freshwater	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	3.16 µg/l	aquatic organisms	marine water	short-term (single instance)
Hydroxycitronellal	107-75-5	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 FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hydroxycitronellal	107-75-5	PNEC	0.145 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	0.011 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cyclamal	103-95-7	PNEC	1.09 µg/l	aquatic organisms	freshwater	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.11 µg/l	aquatic organisms	marine water	short-term (single instance)
Cyclamal	103-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.126 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.0126 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	33.3 mg/kg	aquatic organisms	water	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.0245 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cyclamal	103-95-7	PNEC	10.92 µg/l	aquatic organisms	water	intermittent release
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 organisms	freshwater sediment	short-term (single 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)



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Terpineol	8000-41-7	PNEC	62 µg/l	aquatic organisms	freshwater	short-term (single instance)
Terpineol	8000-41-7	PNEC	6.2 µg/l	aquatic organisms	marine water	short-term (single instance)
Terpineol	8000-41-7	PNEC	2.57 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Terpineol	8000-41-7	PNEC	0.442 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Terpineol	8000-41-7	PNEC	0.044 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Terpineol	8000-41-7	PNEC	0.052 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 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.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### Appearance

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	not determined
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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# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

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.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### 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 mg/l/4h

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

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

##### Respiratory or skin sensitization

May cause an allergic skin reaction.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

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	

##### Legend

1 Carcinogenic to humans

##### Reproductive toxicity

Suspected of damaging fertility.

##### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### 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.

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 mg/l	fish	96 h
ethanol	64-17-5	EC50	12,700 mg/l	fish	96 h
ethanol	64-17-5	ErC50	22,000 mg/l	algae	96 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	LC50	>1,000 mg/l	rainbow trout ( <i>Oncorhynchus mykiss</i> )	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 mg/l	goldfish ( <i>Carassius auratus</i> )	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	water flea ( <i>Daphnia</i> )	48 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	algae	72 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
Hydroxycitronellal	107-75-5	LC50	31.6 mg/l	fish	96 h
Hydroxycitronellal	107-75-5	EC50	410 mg/l	aquatic invertebrates	48 h



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydroxycitronellal	107-75-5	ErC50	123.3 mg/l	algae	72 h
Cyclamal	103-95-7	LC50	1.092 mg/l	fish	96 h
Cyclamal	103-95-7	EC50	1.4 mg/l	aquatic invertebrates	48 h
Cyclamal	103-95-7	ErC50	4.3 mg/l	algae	72 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
Terpineol	8000-41-7	LC50	80 mg/l	fish	48 h
Terpineol	8000-41-7	ErC50	68 mg/l	algae	72 h
Terpineol	8000-41-7	EC50	17 mg/l	algae	72 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

The mixture contains substance(s) with an endocrine disrupting potential.

## 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.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### 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

<b>14.1 UN number</b>	1950
<b>14.2 UN proper shipping name</b>	Aerosols
<b>14.3 Transport hazard class(es)</b>	
Class	2.1 (gases) (aerosol) (flammable)
<b>14.4 Packing group</b>	not assigned to a packing group
<b>14.5 Environmental hazards</b>	non-environmentally hazardous acc. to the dangerous goods regulations
<b>14.6 Special precautions for user</b>	
There is no additional information.	
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### International Maritime Dangerous Goods Code (IMDG)

UN number	1950
Proper shipping name	AEROSOLS
- Particulars in the shipper's declaration	UN1950, AEROSOLS, 2.1
Class	2.1
Marine pollutant	-
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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### 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

- 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	
Distillates (petroleum), hydro-treated light		64742-47-8	solvents	
Benzophenone-3	Benzophenone-3 (2-Hydroxy-4-methoxybenzophenone)	131-57-7	fragrance	CDC 4th National Exposure Report
Hexyl cinnamaldehyde	Hexyl cinnam-aldehyde	101-86-0	fragrance	EU Fragrance Allergens
Patchouli ethanone		54464-57-2	fragrance	
Phenethyl alcohol		60-12-8	fragrance	
Lilial	2-(4-tert-Butylbenzyl) propionaldehyde	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	
Hydroxycitronellal	Hydroxy-citronellal	107-75-5	fragrance	EU Fragrance Allergens
Geraniol	Geraniol	106-24-1	fragrance	EU Fragrance Allergens
Lylal	Hydroxy-methylpentyl-cyclohexenecarboxaldehyde	31906-04-4	fragrance	EU Fragrance Allergens
Terpineol		8000-41-7	fragrance	
Benzyl benzoate	Benzyl benzoate	120-51-4	fragrance	EU Fragrance Allergens
Hexan-1-ol		111-27-3	solvents	
Tert-butyl alcohol	Tertiary butyl alcohol (TBA)	75-65-0	solvents	CA NLS
Bitrex		3734-33-6	bitterant	
Hexyl salicylate		6259-76-3	fragrance	



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

Name of substance	Name acc. to inventory	CAS No	Functional-ity	Authoritative Lists
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	
Cinnamal	Cinnamal	104-55-2	fragrance	EU Fragrance Allergens
α-Methylcinnamaldehyde		101-39-3	fragrance	
(R)-p-mentha-1,8-diene	d-Limonene	5989-27-5	fragrance	EU Fragrance Allergens
Isoeugenol	Isoeugenol	97-54-1	fragrance	EU Fragrance Allergens
Acetyl cedrene		32388-55-9	fragrance	
Methyl cinnamate		103-26-4	fragrance	
Dorisyl		32210-23-4	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 Concentration 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

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

### - 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
tert-butyl alcohol	tert-butyl alcohol	75-65-0		F3
hexan-1-ol	1-hexanol (hexyl alcohol)	111-27-3		F2



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### Legend

CA Carcinogenic  
F2 Flammable - Second Degree  
F3 Flammable - Third Degree  
MU Mutagenic  
TE Teratogenic

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

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

E Environmental hazard

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

Name of substance	Name acc. to inventory	CAS No	References
ethanol	ethyl alcohol	64-17-5	T, F
tert-butyl alcohol	2-methyl-2-propanol	75-65-0	F
hexan-1-ol	1-Hexanol	111-27-3	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.



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

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	-	

### 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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

Country	Inventory	Status
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

### Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information, including date of preparation or last revision

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

### 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®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
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



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Rapid Odor Eliminator Coastal Dunes - Aerosol

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

Revision: 2020-10-21

Abbr.	Descriptions of used abbreviations
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).

### 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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.