



SAFETY DATA SHEET

Armor All® Air Freshener Card Pure Linen

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name Armor All® Air Freshener Card Pure Linen

Product number 17199ML

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

Identified uses Hanging air freshener.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

Armored Auto UK Ltd
Unit 16, Rassau Industrial Estate
Ebbw Vale
Gwent NP23 5SD
UK
Tel: +44 1495 350234
Fax: + 44 1495 350431
euregulatory@eu.spectrumbrands.com

1.4. Emergency telephone number

Emergency telephone +44 1495 350234
Monday - Thursday: 0830 - 1700
Friday: 0830 - 1530

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

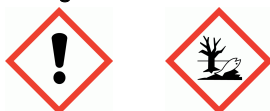
Environmental hazards Aquatic Chronic 2 - H411

Environmental

The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Pictogram



Signal word

Warning

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Hazard statements	H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Exemptions from CLP Article 17 [Article 29(2)]	The following are not required for labelling: H411 Toxic to aquatic life with long lasting effects. - 1.5.2.1. Labelling of packages where the contents do not exceed 125 ml]
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
Contains	tetramethyl acetyloctahydronaphthalenes, hexyl salicylate, alpha-isomethyl ionone, citronellol
Supplementary precautionary statements	P272 Contaminated work clothing should not be allowed out of the workplace. P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

hexyl salicylate	1 - <2.5%
CAS number: 6259-76-3	EC number: 228-408-6
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
tetramethyl acetyloctahydronaphthalenes	1 - <2.5%
CAS number: 54464-57-2	EC number: 259-174-3
Classification	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
alpha-isomethyl ionone	0.5 - <1%
CAS number: 127-51-5	EC number: 204-846-3
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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2-methylundecanal		0.5 - <1%
CAS number: 110-41-8	EC number: 203-765-0	REACH registration number: 01-2119969443-29-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Skin Irrit. 2 - H315		
Skin Sens. 1B - H317		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
citronellol		0.25 - <0.5%
CAS number: 106-22-9	EC number: 203-375-0	
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
4-methyl-3-decen-5-ol		0.25 - <0.5%
CAS number: 81782-77-6	EC number: 279-815-0	
M factor (Acute) = 1		
Classification		
Aquatic Acute 1 - H400		
geraniol		0.025 - <0.25%
CAS number: 106-24-1	EC number: 203-377-1	
Classification		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Skin contact	Wash skin thoroughly with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Vapours may cause drowsiness and dizziness.
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Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Reference to other sections See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations.

Advice on general occupational hygiene Avoid contact with eyes and prolonged skin contact.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place.

7.3. Specific end use(s)

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Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Eye/face protection No specific eye protection required during normal use.

Hand protection The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Hygiene measures No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Solid.
Colour	Various colours.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Bulk density	Not determined.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

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9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products None at ambient temperatures.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Skin Sens. 1 - H317

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

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Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

hexyl salicylate

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Rat REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Rat REACH dossier information. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Skin Irrit. 2 - H315 Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 24 hours, Rabbit REACH dossier information. Eye Irrit. 2 - H319 Causes serious eye irritation.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. Skin Sens. 1 - H317 May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

tetramethyl acetyloctahydronaphthalenes

Skin corrosion/irritation

Animal data Skin Irrit. 2 - H315 Causes skin irritation.

Skin sensitisation

Skin sensitisation Skin Sens. 1 - H317 May cause an allergic skin reaction.

alpha-isomethyl ionone

Skin corrosion/irritation

Animal data Skin Irrit. 2 - H315 Causes skin irritation.

Skin sensitisation

Skin sensitisation Skin Sens. 1 - H317 May cause an allergic skin reaction.

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citronellol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,450.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 3,450.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,650.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 2,650.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Primary dermal irritation index: 3.67 - 4.22
Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information.
Skin Irrit. 2 - H315 Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, Rabbit, REACH dossier information. Eye Irrit. 2 - H319 Causes serious eye irritation.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 300 mg/kg/day, Dermal, Rat P, F1 REACH dossier information.

Reproductive toxicity - development Maternal toxicity: - NOAEL: 300 mg/kg/day, Dermal, Rat REACH dossier information.

geraniol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,600.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 3,600.0

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Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀: > 5000 mg/kg, Rabbit REACH dossier information.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).
Oedema score: Slight oedema - edges of area well defined by definite raising (2).
Primary dermal irritation index: 2.92 - 3.67 REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 24 hours, Rabbit REACH dossier information. Eye Dam. 1 - H318
Causes serious eye damage.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. REACH dossier information.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

Carcinogenicity

Carcinogenicity NOEL 2000 mg/kg/day, Oral, Rat REACH dossier information. Read across data.

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 300 mg/kg/day, Dermal, Rat P REACH dossier information.

Reproductive toxicity - development Maternal toxicity: - NOAEL: 300 mg/kg/day, Dermal, Rat REACH dossier information.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Aquatic Chronic 2 - H411

hexyl salicylate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₀, 96 hours: 0.95 mg/l, Brachydanio rerio (Zebra Fish)
LC₁₀₀, 96 hours: 1.9 mg/l, Brachydanio rerio (Zebra Fish)
REACH dossier information.
Read across data.

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 0.543 mg/l, Daphnia magna
NOEC, 24+48 hours: 0.14 mg/l, Daphnia magna
LOEC, 24+48 hours: 0.31 mg/l, Daphnia magna
EC₅₀, 48 hours: 0.357 mg/l, Daphnia magna
REACH dossier information.

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Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.61 mg/l, Scenedesmus subspicatus
 EC₀, 72 hours: 0.19 mg/l, Scenedesmus subspicatus
 NOEC, 72 hours: 0.15 mg/l, Scenedesmus subspicatus
 REACH dossier information.

Chronic aquatic toxicity

M factor (Chronic) 1

tetramethyl acetyloctahydronaphthalenes

Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

alpha-isomethyl ionone

Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

citronellol

Acute toxicity - fish NOEC, 96 hours: 4.6 mg/l, Leuciscus idus (Golden orfe)
 LC₅₀, 96 hours: 14.66 mg/l, Leuciscus idus (Golden orfe)
 REACH dossier information.

Acute toxicity - aquatic invertebrates NOEC, 48 hours: 3.1 mg/l, Daphnia magna
 EC₅₀, 48 hours: 17.48 mg/l, Daphnia magna
 REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 2.4 mg/l, Scenedesmus subspicatus
 REACH dossier information.

Acute toxicity - microorganisms EC₅₀, 30 minutes: > 10000 mg/l, Pseudomonas putida
 REACH dossier information.

geraniol

Acute toxicity - fish NOEC, 96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish)
 LC₀, 96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish)
 LC₅₀, 96 hours: ~ 22 mg/l, Brachydanio rerio (Zebra Fish)
 LC₁₀₀, 96 hours: 46.4 mg/l, Brachydanio rerio (Zebra Fish)
 REACH dossier information.

Acute toxicity - aquatic invertebrates EC₀, 48 hours: 4 mg/l, Daphnia magna
 EC₅₀, 48 hours: 10.8 mg/l, Daphnia magna
 EC₁₀₀, 48 hours: 41.9 mg/l, Daphnia magna
 REACH dossier information.

Acute toxicity - aquatic plants NOEC, 72 hours: 1 mg/l, Scenedesmus subspicatus
 EC₁₀, 72 hours: 3.77 mg/l, Scenedesmus subspicatus
 EC₅₀, 72 hours: 13.1 mg/l, Scenedesmus subspicatus
 REACH dossier information.

Acute toxicity - microorganisms EC₅₀, 30 minutes: 70 mg/l, Activated sludge
 REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability No data available.

hexyl salicylate

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Biodegradation Water - Degradation (91%): 28 days
Water - Degradation (82%): 10 days
REACH dossier information.
The substance is readily biodegradable.

citronello

Phototransformation Water - DT₅₀ : 3.9 hours
REACH dossier information.
Calculation method.

Biodegradation Water - Degradation (80 - 90%): 28 days
REACH dossier information.
The substance is readily biodegradable.

geraniol

Biodegradation Water - Degradation (90 - 100%): 3 days
REACH dossier information.
The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

hexyl salicylate

Bioaccumulative potential BCF: 8913, Pimephales promelas (Fat-head Minnow), Lepomis macrochirus (Bluegill), Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
Calculation method.

Partition coefficient log Pow: 5.5 REACH dossier information.

citronello

Bioaccumulative potential BCF: 82.59 l/kg, REACH dossier information. Calculation method.

Partition coefficient log Pow: 3.41 REACH dossier information.

geraniol

Partition coefficient log Pow: 2.6 REACH dossier information.

12.4. Mobility in soil

Mobility The product is soluble in water.

citronello

Adsorption/desorption coefficient Water - log Koc : 1.85 REACH dossier information. Calculation method.

Henry's law constant 5.76 Pa m³/mol @ 25°C REACH dossier information. Calculation method.

geraniol

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Adsorption/desorption coefficient Soil - log Koc: 1.85 REACH dossier information. Calculation method.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Refer to the Dangerous Goods List for information on any Special Provisions 335 / A158.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations EH40/2005 Workplace exposure limits.

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EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Skin Sens. 1 - H317, Aquatic Chronic 2 - H411: Calculation method.
Revision comments	Section 2: Hazards identification // 2.2. Label elements
Revision date	17/08/2016
Revision	2
Supersedes date	01/06/2016
SDS number	612
Hazard statements in full	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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