



SAFETY DATA SHEET

Armor All® Air Freshener Card Eucalyptus Pine

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 Eucalyptus Pine
Product number 17200ML

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 3 - H412

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. H412 Harmful to aquatic life with long lasting effects.
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	2-methylundecanal, cineole, coumarin, piperonal
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

2-methylundecanal CAS number: 110-41-8 M factor (Acute) = 1	EC number: 203-765-0 M factor (Chronic) = 1	1 - <2.5% REACH registration number: 01-2119969443-29-XXXX
Classification Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
cineole CAS number: 470-82-6	EC number: 207-431-5	0.5 - <1% REACH registration number: 01-2119967772-24-XXXX
Classification Flam. Liq. 3 - H226 Skin Sens. 1B - H317		
coumarin CAS number: 91-64-5	EC number: 202-086-7	0.25 - <0.5%
Classification Acute Tox. 4 - H302 Skin Sens. 1 - H317 STOT RE 2 - H373		

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piperonal		0.25 - <0.5%
CAS number: 120-57-0	EC number: 204-409-7	REACH registration number: 01-2119983608-21-XXXX
Classification		
Skin Sens. 1B - 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.
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.
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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.
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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)

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.

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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.

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

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Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Animal data	Based on available data the classification criteria are not met.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Skin Sens. 1 - H317
<u>Germ cell mutagenicity</u>	
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.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.

2-methylundecanal

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ : >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ : >8280 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Animal data Dose: 10 ml/kg, 24 hours, Rabbit Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 24 hours, Rabbit Not irritating.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

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cineole

Skin corrosion/irritation

Human skin model test Cell Viability (89%) 15 minutes Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.75 ml, 10 minutes, Based on available data the classification criteria are not met.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative.

Genotoxicity - in vivo Gene mutation: Negative.

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 600 mg/kg/day, Oral, Rat P

coumarin

Acute toxicity - oral

Notes (oral LD₅₀) REACH dossier information. Converted acute toxicity point estimate (cATpE)

ATE oral (mg/kg) 500.0

Skin corrosion/irritation

Animal data Primary dermal irritation index: 1.15 REACH dossier information. Read across data. Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation REACH dossier information. Read across data. Not irritating.

Skin sensitisation

Skin sensitisation Sensitising. REACH dossier information.

Germ cell mutagenicity

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

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

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOEC > 0.25 %, Oral, Mouse P, F1 REACH dossier information.

piperonal

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ : >5000 mg/kg, Dermal, Rat

Serious eye damage/irritation

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Serious eye damage/irritation	Rabbit Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative.
Genotoxicity - in vivo	Chromosome aberration: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	Dose level: 0.1 - 0.5 %, Oral, Rat No evidence of carcinogenicity in animal studies.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	Developmental toxicity: - NOAEL: > 250 mg/kg/day, Oral, Rat

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Aquatic Chronic 3 - H412

2-methylundecanal

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish

LC₅₀, 24 hours: >0.46 mg/l, Onchorhynchus mykiss (Rainbow trout)
 LC₅₀, 48 hours: >0.46 mg/l, Onchorhynchus mykiss (Rainbow trout)
 LC₅₀, 72 hours: 0.35 mg/l, Onchorhynchus mykiss (Rainbow trout)
 LC₅₀, 96 hours: 0.35 mg/l, Onchorhynchus mykiss (Rainbow trout)
 NOEC, 96 hours: 0.11 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 0.21 mg/l, Daphnia magna
 NOEC, 48 hours: 0.053 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 0.11 mg/l, Pseudokirchneriella subcapitata
 NOEC, 72 hours: 0.057 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

cineole

Acute toxicity - fish

LC₅₀, 96 hours: 57 mg/l, Onchorhynchus mykiss (Rainbow trout)
 NOEC, 96 hours: 32 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: > 100 mg/l, Daphnia magna
 NOEC, 48 hours: 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 72 hours: >74 mg/l, Pseudokirchneriella subcapitata
 NOEC, 72 hours: 37 mg/l, Pseudokirchneriella subcapitata
 EC₅₀, 96 hours: >100 mg/l, Pseudokirchneriella subcapitata
 NOEC, 96 hours: 50 mg/l, Pseudokirchneriella subcapitata

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Acute toxicity - microorganisms EC₅₀, 3 hours: >100 mg/l, Activated sludge

coumarin

Acute toxicity - fish LC₅₀, 96 hours: 1.324 mg/l,
REACH dossier information.
QSAR

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 8.012 mg/l, Daphnia sp.
REACH dossier information.
QSAR

Acute toxicity - aquatic plants EC₅₀, 96 hours: 1.452 mg/l,
NOEC, 96 hours: 0.408 mg/l,
REACH dossier information.
QSAR

Acute toxicity - microorganisms NOEC, 28 days: 100 mg/l, Activated sludge
REACH dossier information.

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.448 mg/l, Daphnia sp.
REACH dossier information.
QSAR

piperonal

Acute toxicity - fish LC₅₀, 24 hours: 1.6 mg/l, Cyprinus carpio (Common carp)
LC₅₀, 48 hours: 2.8 mg/l, Cyprinus carpio (Common carp)
LC₅₀, 72 hours: 2.5 mg/l, Cyprinus carpio (Common carp)
LC₅₀, 96 hours: 2.5 mg/l, Cyprinus carpio (Common carp)
NOEC, 96 hours: 1.6 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 82 mg/l, Daphnia magna
EC₅₀, 48 hours: 52 mg/l, Daphnia magna
NOEC, 48 hours: 22 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 31 mg/l, Pseudokirchneriella subcapitata
NOEC, 72 hours: 1.1 mg/l, Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Persistence and degradability No data available.

2-methylundecanal

Biodegradation Water - Degradation (68%): 22 days
The substance is readily biodegradable.

cineole

Biodegradation Water - Degradation (82%): 28 days
The substance is readily biodegradable.

coumarin

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Biodegradation Water - Degradation (100%): 28 days
REACH dossier information.
The substance is readily biodegradable.

piperonal

Biodegradation Water - Degradation (82%): 28 days
The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

2-methylundecanal

Partition coefficient log Pow: 4.9

cineole

Partition coefficient log Pow: 3.4

coumarin

Partition coefficient log Pow: 1.39 REACH dossier information.

piperonal

Partition coefficient log Pow: 1.2

12.4. Mobility in soil

Mobility The product is soluble in water.

2-methylundecanal

Adsorption/desorption coefficient Water - Log Koc: 3.6 @ 35°C

Surface tension 58.1 mN/m @ 19.6°C

cineole

Adsorption/desorption coefficient Soil - Log Koc: 2.33 @ 35°C

Surface tension 61.5 mN/m @ 20°C

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

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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).

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.

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 3 - H412: Calculation method.

Revision comments Revised classification.

Revision date 17/08/2016

Armor All® Air Freshener Card Eucalyptus Pine

Revision	1
Supersedes date	16/12/2014
SDS number	599
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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