

SAFETY DATA SHEET

Armor All® Air Freshener Card Warm Apple Spice

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 Warm Apple Spice

Product number 17203ML

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

Identified uses Hanging air freshener.

Uses advised againstNo 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 Not Classified

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

Hazard statements H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains cinnamaldehyde, eugenol, coumarin. May produce an allergic reaction.

Precautionary statements P102 Keep out of reach of children.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2-tert-butylcyclohexyl acetate 5 - <10%

CAS number: 88-41-5 EC number: 233-732-6

Classification

Aquatic Chronic 2 - H411

diethyl malonate 1 - <2.5%

CAS number: 105-53-3 EC number: 203-305-9

Classification

Eye Irrit. 2 - H319

cinnamaldehyde 0.5 - <1%

CAS number: 104-55-2 EC number: 203-213-9 REACH registration number: 01-

2119935242-45-XXXX

Classification

Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Skin Sens. 1 - H317

eugenol 0.5 - <1%

CAS number: 97-53-0 EC number: 202-589-1

Classification

Eye Irrit. 2 - H319 Skin Sens. 1 - H317

coumarin 0.5 - <1%

CAS number: 91-64-5 EC number: 202-086-7

Classification

Acute Tox. 4 - H302 Skin Sens. 1 - H317 STOT RE 2 - H373

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.

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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.

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

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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.

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.

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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

None at ambient temperatures.

products

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

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

Germ cell mutagenicity

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

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity - single exposure

STOT - single exposureBased 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.

diethyl malonate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 15,794.0

mg/kg)

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 15,794.0

Skin corrosion/irritation

Animal data Dose: 0.01 ml, Rabbit, REACH dossier information. Not irritating.

Serious eye damage/irritation

Serious eye Dose: 0.1 ml, 1 hour, Rabbit REACH dossier information. Moderately irritating.

damage/irritation

Germ cell mutagenicity

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

cinnamaldehyde

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,220.0

mg/kg)
Species

/kg)

Notes (oral LD₅₀) REACH dossier information.

Rat

ATE oral (mg/kg) 2,220.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,260.0

mg/kg)

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Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 1,260.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

68.88

Species Rat

Notes (inhalation LC50) REACH dossier information. QSAR

ATE inhalation (vapours

mg/l)

68.88

Skin corrosion/irritation

Animal data Dose: 0.02, 0.1, 0.8%, 6 weeks, Human REACH dossier information. Skin Irrit. 2 -

H315 Causes skin irritation.

Serious eye damage/irritation

Serious eye Dose: 8%, Human, REACH dossier information. Eye Irrit. 2 - H319 Causes serious

damage/irritation eye irritation.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier

information. Skin Sens. 1 - H317

Germ cell mutagenicity

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

Reproductive toxicity

Reproductive toxicity -

fertility

Multi-generation study - LOAEL 5 mg/kg/day, Oral, Rat F2a, F2b REACH dossier

information.

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 1200 mg/kg/day, Oral, Mouse REACH dossier

information.

eugenol

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 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: Very slight oedema - barely perceptible (1). REACH dossier

information. Not irritating.

Serious eye damage/irritation

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

damage/irritation 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.

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Carcinogenicity

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

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

REACH dossier information. Read across data. Not irritating.

damage/irritation
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 Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

fertility information.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Aquatic Chronic 3 - H412

2-tert-butylcyclohexyl acetate

Two-generation study - NOEC > 0.25 %, Oral, Mouse P, F1 REACH dossier

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

diethyl malonate

Acute toxicity - aquatic

invertebrates

EC₀, 48 hours: 100 mg/l, Daphnia magna EC₅₀, 48 hours: 202.3 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 508.2 mg/l, Scenedesmus subspicatus

REACH dossier information.

cinnamaldehyde

Acute toxicity - fish LC₅₀, 96 hours: 105.7637 mg/l, Pimephales promelas (Fat-head Minnow)

REACH dossier information.

QSAR

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Acute toxicity - aquatic

EC₅₀, 48 hours: 119.5578 mg/l, Daphnia magna

invertebrates

REACH dossier information.

QSAR

Acute toxicity -

IC₅₀, 48 hours: 131.1951 mg/l, Tetrahymena pyriformis

microorganisms

REACH dossier information.

QSAR

Acute toxicity - terrestrial

EC₅₀, 24 hours: 8.612171 mg/l, Soil micro-organisms

LC₅₀, 14 days: 895.9267 mg/kg, Eisenia Fetida (Earthworm)

QSAR

LOEL, 5 days: 1 %, Colinus Virginianus (Bobwhite Quail)

REACH dossier information.

eugenol

Acute toxicity - fish

NOEC, 24+48+72+96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish) LC₅₀, 24+48+72+96 hours: 13 mg/l, Brachydanio rerio (Zebra Fish) LC₁₀₀, 24+48+72+96 hours: 18 mg/l, Brachydanio rerio (Zebra Fish)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

ECo, 48 hours: 0.36 mg/l, Daphnia magna EC₅₀, 48 hours: 1.05 mg/l, Daphnia magna EC₁₀₀, 48 hours: 3.08 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

NOEC, 72 hours: 23 mg/l, Scenedesmus subspicatus LOEC, 72 hours: 38 mg/l, Scenedesmus subspicatus EC₁₀, 72 hours: 23 mg/l, Scenedesmus subspicatus EC₅o, 72 hours: 24 mg/l, Scenedesmus subspicatus EC₁₀₀, 72 hours: 38 mg/l, Scenedesmus subspicatus

REACH dossier information.

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 -

NOEC, 28 days: 100 mg/l, Activated sludge

microorganisms REACH dossier information.

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 0.448 mg/l, Daphnia sp.

REACH dossier information.

QSAR

12.2. Persistence and degradability

Persistence and degradability No data available.

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diethyl malonate

Biodegradation Water - Degradation (95%): 14 days

Water - Degradation (99%): 21 days Water - Degradation (99%): 28 days The substance is readily biodegradable.

REACH dossier information.

cinnamaldehyde

Biodegradation Water - Half-life: 30 days

REACH dossier information.

Calculation method.

The substance is readily biodegradable.

eugenol

Biodegradation Water - Degradation (50%): 7 days

Water - Degradation (66%): 14 days Water - Degradation (77%): 21 days Water - Degradation (82%): 28 days

REACH dossier information.

The substance is readily biodegradable.

coumarin

Biodegradation Water - Degradation (100%): 28 days

REACH dossier information.

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

diethyl malonate

Partition coefficient log Pow: 0.96 REACH dossier information.

cinnamaldehyde

Bioaccumulative potential BCF: 8.33 l/kg, Algae Calculation method. REACH dossier information.

Partition coefficient Pow: 68.5 REACH dossier information.

eugenol

Partition coefficient log Pow: 1.83 REACH dossier information.

coumarin

Partition coefficient log Pow: 1.39 REACH dossier information.

12.4. Mobility in soil

Mobility The product is soluble in water.

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diethyl malonate

Surface tension 30.56 mN/m @ 30°C REACH dossier information.

cinnamaldehyde

Adsorption/desorption

coefficient

Water - Koc: 36.82 @ 25°C Calculation method. REACH dossier information.

Henry's law constant 0.162 Pa m³/mol @ 25°C Calculation method. REACH dossier information.

Surface tension 38.962 mN/m @ 25°C 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).

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

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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)

Aquatic Chronic 3 - H412, EUH208: Calculation method.

1272/2008

Revision comments Section 2: Hazards identification // 2.2. Label elements

Revision date 17/08/2016

Revision 1

Supersedes date 16/12/2014

SDS number 617

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains cinnamaldehyde, eugenol, coumarin. May produce an allergic reaction.

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