

# SAFETY DATA SHEET Armor All® Air Freshener Card New Car

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 New Car

Product number 78522ML

## 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 Not Classified

**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**



## Armor All® Air Freshener Card New Car

**Hazard statements** H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains tetramethyl acetyloctahydronaphthalenes, cedryl methyl ketone, limonene, citral, pin-2(10)-ene, 7-hydroxycitronellal, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, eugenol, coumarin, [1S-( $1\alpha$ ,3a $\beta$ ,4 $\alpha$ ,8a $\beta$ )]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene, (ethoxymethoxy)cyclododecane, carvacrol, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one. May produce an allergic reaction.

Exemptions from CLP Article

The following are not required for labelling: H411 Toxic to aquatic life with long lasting effects.

17 [Article 29(2)]

- 1.5.2.1. Labelling of packages where the contents do not exceed 125 ml]

**Precautionary statements** 

P102 Keep out of reach of children.

#### 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

#### tetramethyl acetyloctahydronaphthalenes

0.5 - <1%

#### Classification

Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

# 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-

0.5 - <1%

c]pyran

## Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

# cedryl methyl ketone

0.5 - <1%

#### Classification

Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

# Armor All® Air Freshener Card New Car

limonene 0.5 - <1%

CAS number: 138-86-3 EC number: 205-341-0

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-

naphthyl)ethan-1-one

Classification

Acute Tox. 4 - H302 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

citral 0.25 - <0.5%

0.5 - <1%

CAS number: 5392-40-5 EC number: 226-394-6

Classification

Skin Irrit. 2 - H315 Skin Sens. 1 - H317

pin-2(10)-ene 0.025 - <0.25%

CAS number: 127-91-3 EC number: 204-872-5

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

7-hydroxycitronellal 0.025 - <0.25%

CAS number: 107-75-5 EC number: 203-518-7

Classification

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

## Armor All® Air Freshener Card New Car

# 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

0.025 - < 0.25%

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

eugenol 0.025 - <0.25%

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

Classification

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

coumarin 0.025 - <0.25%

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

Classification

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

# [1S- $(1\alpha,3a\beta,4\alpha,8a\beta)$ ]-decahydro-4,8,8-trimethyl-9-methylene-

0.025 - < 0.25%

1,4-methanoazulene

Classification

Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

# (ethoxymethoxy)cyclododecane

0.025 - < 0.25%

CAS number: 58567-11-6 EC number: 261-332-1 REACH registration number: 01-

2119971571-34-XXXX

Classification

Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Aquatic Chronic 2 - H411

## Armor All® Air Freshener Card New Car

carvacrol 0.025 - <0.25%

CAS number: 499-75-2 EC number: 207-889-6

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

## 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one

0.025 - < 0.25%

CAS number: 33704-61-9 EC number: 251-649-3

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

# $[3R-(3\alpha,3a\beta,7\beta,8a\alpha)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-$

0.025 - < 0.25%

tetramethyl-1H-3a,7-methanoazulene

Classification

Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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.

## Armor All® Air Freshener Card New Car

## 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

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

products

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)

**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

## Armor All® Air Freshener Card New Car

**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.

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.

## Armor All® Air Freshener Card New Car

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 LD<sub>50</sub>) 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 LC<sub>50</sub>) 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 Based on available data the classification criteria are not met.

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.

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

## Armor All® Air Freshener Card New Car

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.

## tetramethyl acetyloctahydronaphthalenes

Skin corrosion/irritation

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

Skin sensitisation

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

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

Acute toxicity - oral

Acute toxicity oral (LD50

4,640.0

mg/kg)

**Species** Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 4,640.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 10,000.0

mg/kg)

Rat **Species** 

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 10,000.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 1 hour, 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 damage/irritation Dose: 0.1 ml, 7 days, Rabbit REACH dossier information. Not irritating.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier

information.

Germ cell mutagenicity

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

Reproductive toxicity

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 150 mg/kg/day, Oral, Rat Developmental toxicity:

- LOAEL: 500 mg/kg/day, Oral, Rat REACH dossier information.

cedryl methyl ketone

Acute toxicity - oral

## Armor All® Air Freshener Card New Car

Acute toxicity oral (LD50

mg/kg)

4,500.0

**Species** Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 4,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,001.0

mg/kg)

**Species** Rabbit

Notes (dermal LD50) REACH dossier information.

ATE dermal (mg/kg) 5,001.0

Skin corrosion/irritation

Dose: 10 µl, 15 ± 0.5 minutes, Cell Viability (76.2 ± 4.6%) REACH dossier Human skin model test

information. Not irritating.

Serious eye damage/irritation

Serious eye

Dose: 0.1 ml, 24 hours, Rabbit REACH dossier information. Not irritating.

damage/irritation

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.

Reproductive toxicity

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 100 mg/kg/day, Oral, Rat REACH dossier

information.

limonene

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.

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Acute toxicity - oral

Acute toxicity oral (LD₅o

920.0

mg/kg)

**Species** Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 920.0

Skin corrosion/irritation

## Armor All® Air Freshener Card New Car

Animal data Dose: 0.5 g, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema

score: No oedema (0). REACH dossier information. Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation

Dose: 0.1 g, 24 hours, Rabbit REACH dossier information. Slightly irritating. Based

on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation - Guinea pig: Not sensitising. REACH dossier information.

Germ cell mutagenicity

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

citral

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

6,800.0

Species Rat

**ATE oral (mg/kg)** 6,800.0

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o > 2000 mg/kg, Rat REACH dossier information.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye

REACH dossier information. Not irritating.

damage/irritation

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 NOAEL 60 mg/kg/day, Oral, Mouse REACH dossier information.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 200 mg/kg/day, Oral, Rat P REACH dossier information.

pin-2(10)-ene

Skin corrosion/irritation

Human skin model test Dose: 10 µl, 15 ± 0.5 minutes, Human Cell Viability (38.5 ± 3.5%) 15 minutes

REACH dossier information. Irritating.

Serious eye damage/irritation

## Armor All® Air Freshener Card New Car

Serious eye damage/irritation

REACH dossier information. Not irritating.

Skin sensitisation

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

information.

Aspiration hazard

Aspiration hazard 1.4 mPa s @ 40°C REACH dossier information. Asp. Tox. 1 - H304 May be fatal if

swallowed and enters airways.

7-hydroxycitronellal

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

6,400.0

**Species** Rat

Notes (oral LD<sub>50</sub>) REACH dossier information.

**ATE oral (mg/kg)** 6,400.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub>, : > 2000 mg/kg, Rabbit, 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: No erythema (0). Oedema

score: No oedema (0). REACH dossier information. Not irritating.

Serious eye damage/irritation

Serious eye

Dose: 50 µl, Rabbit, REACH dossier information. Eye Irrit. 2 - H319 Causes serious

eye irritation.

damage/irritation
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.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 200 mg/kg/day, Oral, Rat P REACH dossier information.

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

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.

eugenol

## Armor All® Air Freshener Card New Car

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> > 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.

Carcinogenicity

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

coumarin

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) 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 Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

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

fertility information.

[1S-(1α,3aβ,4α,8aβ)]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene

Skin sensitisation

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

Aspiration hazard

## Armor All® Air Freshener Card New Car

Aspiration hazard Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.

(ethoxymethoxy)cyclododecane

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub>, : > 5000 mg/kg, Rat, REACH dossier information. Based on available data the

classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub>, : > 5000 mg/kg, Rabbit, 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: Moderate to severe

erythema (3). Oedema score: Moderate oedema - raised approximately 1 mm (3). Fully reversible within 8 days. REACH dossier information. Skin Irrit. 2 - H315

Causes skin irritation.

Serious eye damage/irritation

Serious eye REACH dossier information. Based on available data the classification criteria are

damage/irritation not met.

Skin sensitisation

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

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

Germ cell mutagenicity

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

available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Screening - NOAEL 50 mg/kg/day, Oral, Rat P REACH dossier information. Based

on available data the classification criteria are not met.

carvacrol

Acute toxicity - oral

ATE oral (mg/kg) 500.0

[3R-(3a,3a,7b,8aa)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Aspiration hazard

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.

**SECTION 12: Ecological Information** 

12.1. Toxicity

**Toxicity** Aquatic Chronic 2 - H411

tetramethyl acetyloctahydronaphthalenes

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

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

Acute aquatic toxicity

## Armor All® Air Freshener Card New Car

LE(C)50  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - fish NOEC, 21 days: 0.093 mg/l, Lepomis macrochirus (Bluegill)

> LOEC, 21 days: 0.182 mg/l, Lepomis macrochirus (Bluegill) LC<sub>50</sub>, 96 hours: 1.36 mg/l, Lepomis macrochirus (Bluegill)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

LC<sub>50</sub>, 48 hours: 0.47 mg/l, Acartia tonsa

REACH dossier information.

Acute toxicity - aquatic

plants

NOEC, 72 hours: 0.201 mg/l, Pseudokirchneriella subcapitata LOEC, 72 hours: 0.466 mg/l, Pseudokirchneriella subcapitata EC<sub>50</sub>, 72 hours: 0.723 mg/l, Pseudokirchneriella subcapitata

REACH dossier information.

Acute toxicity - terrestrial NOEC, 56 days: 45 mg/kg, Eisenia Fetida (Earthworm)

> LOEC, 28 days: 105 mg/kg, Eisenia Fetida (Earthworm) NOEC, 28 days: 105 mg/kg, Eisenia Fetida (Earthworm)

REACH dossier information.

Chronic aquatic toxicity

NOEC 0.01 < NOEC ≤ 0.1

Degradability Non-rapidly degradable

M factor (Chronic)

life stage

Chronic toxicity - fish early NOEC, 21 days: 0.093 mg/l, Lepomis macrochirus (Bluegill) LOEC, 21 days: 0.182 mg/l, Lepomis macrochirus (Bluegill)

LC<sub>50</sub>, 21 days: 0.452 mg/l, Lepomis macrochirus (Bluegill)

REACH dossier information.

Chronic toxicity - aquatic

invertebrates

NOEC, 5.5 days: 0.0375 mg/l, Acartia tonsa LOEC, 5.5 days: 0.075 mg/l, Acartia tonsa EC<sub>50</sub>, 5.5 days: 0.131 mg/l, Acartia tonsa

REACH dossier information.

cedryl methyl ketone

Acute aquatic toxicity

LE(C)50  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 2.3 mg/l, Pimephales promelas (Fat-head Minnow)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 0.86 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC<sub>10</sub>, 96 hours: 0.49 mg/l, Selenastrum capricornutum EC<sub>50</sub>, 96 hours: 2.8 mg/l, Selenastrum capricornutum

NOEC, 96 hours: 1.07 mg/l, Selenastrum capricornutum

REACH dossier information.

Chronic aquatic toxicity

# Armor All® Air Freshener Card New Car

M factor (Chronic) 1

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 0.087 mg/l, Daphnia magna EC₅o, 21 days: 0.29 - 0.32 mg/l, Daphnia magna

REACH dossier information.

limonene

Toxicity Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long

lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute) 1

**Chronic aquatic toxicity** 

M factor (Chronic) 1

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute) 1

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 0.612 mg/l, Pseudokirchneriella subcapitata LOEC, 72 hours: 0.605 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 0.278 mg/l, Pseudokirchneriella subcapitata

REACH dossier information.

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - aquatic

invertebrates

EC $_{50}$ , 21 days: 0.244 mg/l, Daphnia magna NOEC, 21 days: 0.196 mg/l, Daphnia magna LOEC, 21 days: 0.401 mg/l, Daphnia magna IC $_{50}$ , 21 days: 0.3413 mg/l, Daphnia magna

REACH dossier information.

citral

Acute toxicity - fish NOEC, 96 hours: 4.6 mg/l, Leuciscus idus (Golden orfe)

 $LC_0$ , 96 hours: 4.6 mg/l, Leuciscus idus (Golden orfe)  $LC_{50}$ , 96 hours: 6.78 mg/l, Leuciscus idus (Golden orfe)  $LC_{100}$ , 96 hours: 10 mg/l, Leuciscus idus (Golden orfe)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC<sub>0</sub>, 48 hours: 3.13 mg/l, Daphnia magna EC<sub>50</sub>, 48 hours: 6.8 mg/l, Daphnia magna EC<sub>100</sub>, 48 hours: 25 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 103.8 mg/l, Desmodesmus subspicatus

REACH dossier information.

## Armor All® Air Freshener Card New Car

**Acute toxicity -** EC₂₀, 30 minutes: 68 mg/l, Activated sludge microorganisms EC₅₀, 30 minutes: 160 mg/l, Activated sludge

REACH dossier information.

7-hydroxycitronellal

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 31.6 mg/l, Leuciscus idus (Golden orfe)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 410 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC₁₀, 72 hours: 42.36 mg/l, Scenedesmus subspicatus EC₅₀, 72 hours: 123.32 mg/l, Scenedesmus subspicatus

REACH dossier information.

Acute toxicity - EC<sub>20</sub>, 30 minutes: > 1000 mg/l, Activated sludge

microorganisms REACH dossier information.

3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

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

eugenol

Acute toxicity - fish NOEC, 24+48+72+96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish)

LC<sub>50</sub>, 24+48+72+96 hours: 13 mg/l, Brachydanio rerio (Zebra Fish) LC<sub>100</sub>, 24+48+72+96 hours: 18 mg/l, Brachydanio rerio (Zebra Fish)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC<sub>0</sub>, 48 hours: 0.36 mg/l, Daphnia magna EC<sub>50</sub>, 48 hours: 1.05 mg/l, Daphnia magna EC<sub>100</sub>, 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

EC<sub>10</sub>, 72 hours: 23 mg/l, Scenedesmus subspicatus EC<sub>50</sub>, 72 hours: 24 mg/l, Scenedesmus subspicatus EC<sub>100</sub>, 72 hours: 38 mg/l, Scenedesmus subspicatus

REACH dossier information.

coumarin

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1.324 mg/l,

REACH dossier information.

QSAR

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 8.012 mg/l, Daphnia sp.

REACH dossier information.

**QSAR** 

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 96 hours: 1.452 mg/l,

NOEC, 96 hours: 0.408 mg/l, REACH dossier information.

QSAR

## Armor All® Air Freshener Card New Car

Acute toxicity - NOEC, 28 days: 100 mg/l, Activated sludge

**microorganisms** REACH dossier information.

Chronic toxicity - aquatic

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

invertebrates

REACH dossier information.

**QSAR** 

## [1S- $(1\alpha,3a\beta,4\alpha,8a\beta)$ ]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene

Toxicity Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long

lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.01 < L(E)C50 \le 0.1$ 

M factor (Acute) 10

Chronic aquatic toxicity

M factor (Chronic) 10

## (ethoxymethoxy)cyclododecane

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

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.9 mg/l, Brachydanio rerio (Zebra Fish)

LC<sub>0</sub>, 96 hours: 1.3 mg/l, Brachydanio rerio (Zebra Fish) LC<sub>100</sub>, 96 hours: 2.8 mg/l, Brachydanio rerio (Zebra Fish) NOEC, 96 hours: 1.3 mg/l, Brachydanio rerio (Zebra Fish) LOEC, 96 hours: 2.8 mg/l, Brachydanio rerio (Zebra Fish)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC<sub>0</sub>, 48 hours: 0.68 mg/l, Daphnia magna EC<sub>10</sub>, 48 hours: 1.3 mg/l, Daphnia magna EC<sub>50</sub>, 48 hours: 1.6 mg/l, Daphnia magna

EC<sub>100</sub>, 48 hours: 3.7 mg/l, Daphnia magna NOEC, 48 hours: 0.68 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>10</sub>, 72 hours: > 2 mg/l, Pseudokirchneriella subcapitata EC<sub>50</sub>, 72 hours: > 2 mg/l, Pseudokirchneriella subcapitata

NOEC, 72 hours: 0.89 mg/l, Pseudokirchneriella subcapitata LOEC, 72 hours: 2 mg/l, Pseudokirchneriella subcapitata

REACH dossier information.

Acute toxicity - NOEC, 3 hours: ≥ 1000 mg/l, Activated sludge

microorganisms REACH dossier information.

## $[3R-(3\alpha,3a\beta,7\beta,8a\alpha)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene$

**Toxicity** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long

lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.01 < L(E)C50 \le 0.1$ 

M factor (Acute) 10

Chronic aquatic toxicity

## Armor All® Air Freshener Card New Car

M factor (Chronic) 10

# 12.2. Persistence and degradability

Persistence and degradability No data available.

# 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

**Phototransformation** Water -  $DT_{50}$ : 3.7 - 4.9 hours

REACH dossier information.

Biodegradation Water - Half-life : < 120 days

Water - Degradation (60%): 28 days

Water - Half-life: 100 hours

Water - Degradation (~2%): 28 days

REACH dossier information.

No biodegradation observed under test conditions.

Biological oxygen demand ~ 3 g O<sub>2</sub>/g substance REACH dossier information.

cedryl methyl ketone

**Biodegradation** Water - Degradation (36%): 28 days

The product is not readily biodegradable.

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Biodegradation Water - ThOD (21%): 21 days

REACH dossier information.

citral

**Phototransformation** Water - Degradation (50%): 37.35 minutes

REACH dossier information.

Calculation method.

**Biodegradation** Water - Degradation (> 90%): 28 days

REACH dossier information.

The substance is readily biodegradable.

pin-2(10)-ene

Biodegradation Water - Degradation (76%): 28 days

REACH dossier information.

The substance is readily biodegradable.

7-hydroxycitronellal

**Biodegradation** Water - Degradation (80 - 90%): 21 days

REACH dossier information.

The substance is readily biodegradable.

eugenol

## Armor All® Air Freshener Card New Car

**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.

(ethoxymethoxy)cyclododecane

Stability (hydrolysis) pH4, pH7, pH9 - Degradation (>10%): 120 hours @ 50°C

REACH dossier information.

**Biodegradation** Water - Degradation (< 5%): 28 days

REACH dossier information.

No biodegradation observed under test conditions.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

Bioaccumulative potential BCF: 1584, Lepomis macrochirus (Bluegill) REACH dossier information.

Partition coefficient log Pow: 5.3 REACH dossier information.

cedryl methyl ketone

Bioaccumulative potential BCF: 3920, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.

Partition coefficient log Pow: 5.6 - 5.9 REACH dossier information.

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Partition coefficient log Pow: 5.7 REACH dossier information.

citral

Bioaccumulative potential BCF: 89.72, Algae REACH dossier information. Calculation method.

Partition coefficient log Pow: 2.76 REACH dossier information.

7-hydroxycitronellal

Partition coefficient log Pow: 1.68 REACH dossier information.

eugenol

Partition coefficient log Pow: 1.83 REACH dossier information.

## Armor All® Air Freshener Card New Car

#### coumarin

Partition coefficient log Pow: 1.39 REACH dossier information.

(ethoxymethoxy)cyclododecane

BCF: 530, Cyprinus carpio (Common carp) REACH dossier information. Bioaccumulative potential

Partition coefficient log Pow: 5.4 REACH dossier information.

12.4. Mobility in soil

Mobility The product is soluble in water.

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

Adsorption/desorption coefficient

Activated sludge - log Koc: 4.87 REACH dossier information.

cedryl methyl ketone

Adsorption/desorption

coefficient

Water - log Koc: 3.5 - 5.1 @ 25°C REACH dossier information.

citral

Henry's law constant 0.000376 atm m³/mol @ 25°C REACH dossier information. Calculation method.

7-hydroxycitronellal

Adsorption/desorption

coefficient

Water - log Koc: 1 @ 24°C REACH dossier information. Calculation method.

Henry's law constant 0.00242 Pa m³/mol @ 24°C REACH dossier information. Calculation method.

(ethoxymethoxy)cyclododecane

Adsorption/desorption

coefficient

Water - Log Koc: 4.165 @ 20°C Calculation method. REACH dossier information.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

12.6. Other adverse effects

Not determined. Other adverse effects

**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.

## Armor All® Air Freshener Card New Car

#### 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)

Aquatic Chronic 2 - H411, EUH208: Calculation method.

1272/2008

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

Revision date 05/10/2016

Revision 3

Supersedes date 01/06/2016

SDS number 609

## Armor All® Air Freshener Card New Car

#### Hazard statements in full

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

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.

EUH208 Contains tetramethyl acetyloctahydronaphthalenes, cedryl methyl ketone, limonene, citral, pin-2(10)-ene, 7-hydroxycitronellal, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, eugenol, coumarin, [1S-(1 $\alpha$ ,3a $\beta$ ,4 $\alpha$ ,8a $\beta$ )]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene, (ethoxymethoxy)cyclododecane, carvacrol, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one. May produce an allergic reaction.

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