



SAFETY DATA SHEET

Armor All® Air Freshener Card Cool Mist

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 Cool Mist
Product number 78523ML

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	d-Limonene, butylphenyl methylpropional, hexyl salicylate, tetramethyl acetyloctahydronaphthalenes
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

linalyl acetate	1 - <2.5%
CAS number: 115-95-7 EC number: 204-116-4	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
2,6-Dimethyloct-7-en-2-ol	1 - <2.5%
CAS number: 18479-58-8 EC number: 242-362-4 REACH registration number: 01-2119457274-37-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1 - <2.5%
CAS number: 1222-05-5 EC number: 214-946-9 M factor (Acute) = 1 M factor (Chronic) = 1	
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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d-Limonene		1 - <2.5%
CAS number: 5989-27-5	EC number: 227-813-5	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Flam. Liq. 3 - H226		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
linalool		1 - <2.5%
CAS number: 78-70-6	EC number: 201-134-4	REACH registration number: 01-2119474016-42-XXXX
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
butylphenyl methylpropional		0.5 - <1%
CAS number: 80-54-6	EC number: 201-289-8	
Classification		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Repr. 2 - H361f		
(Z)-3,4,5,6,6-pentamethylhept-3-en-2-one		0.5 - <1%
CAS number: 81786-73-4	EC number: 279-822-9	
Classification		
Skin Sens. 1B - H317		
Aquatic Chronic 2 - H411		
hexyl salicylate		0.5 - <1%
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		

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tetramethyl acetyloctahydronaphthalenes	0.5 - <1%
CAS number: 54464-57-2 EC number: 259-174-3	
Classification	
Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
pin-2(3)-ene	0.5 - <1%
CAS number: 80-56-8 EC number: 201-291-9	
Classification	
Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304	
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	0.5 - <1%
CAS number: 28219-61-6 EC number: 248-908-8	
M factor (Acute) = 1 M factor (Chronic) = 1	
Classification	
Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
citronellol	0.025 - <0.25%
CAS number: 106-22-9 EC number: 203-375-0	
Classification	
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
2-methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	0.025 - <0.25%
CAS number: 28219-60-5 EC number: 248-907-2	
M factor (Acute) = 1 M factor (Chronic) = 1	
Classification	
Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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2,4-dimethylcyclohex-3-ene-1-carbaldehyde	0.025 - <0.25%
CAS number: 68039-49-6	EC number: 268-264-1
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
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	
2,6-di-tert-butyl-p-cresol	0.025 - <0.25%
CAS number: 128-37-0	EC number: 204-881-4
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
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	
α-methyl-1,3-benzodioxole-5-propionaldehyde	0.025 - <0.25%
CAS number: 1205-17-0	EC number: 214-881-6
Classification	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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.

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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.
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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.
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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.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations.
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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.
Auto-ignition temperature	Not determined.

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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.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
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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.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None at ambient temperatures.
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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.
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Acute toxicity - dermal

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

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

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

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

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

Skin sensitisation	Skin Sens. 1 - H317
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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

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.

linalyl acetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 9,000.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 9,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 5,000.0

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. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation REACH dossier information. Eye Irrit. 2 - H319 Causes serious eye irritation.

Germ cell mutagenicity

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

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

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEL 500 mg/kg/day, Oral, Rat P REACH dossier information.

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Reproductive toxicity - development Developmental toxicity: - NOEL: 1000 mg/kg/day, Oral, Rat REACH dossier information.

2,6-Dimethyloct-7-en-2-ol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,100.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Read across data.

ATE oral (mg/kg) 4,100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information. Read across data.

ATE dermal (mg/kg) 5,000.0

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation Moderately irritating. REACH dossier information. Eye Irrit. 2 - H319 Causes serious eye irritation.

Germ cell mutagenicity

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

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 mg/kg) 4,640.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 4,640.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 10,000.0

Species Rat

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 10,000.0

Skin corrosion/irritation

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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.

d-Limonene

Acute toxicity - oral

Notes (oral LD₅₀) > 2000 mg/kg Rat REACH dossier information. Read across data.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit REACH dossier information. 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 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 DNA damage and/or repair: Negative. REACH dossier information.

Carcinogenicity

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 1650 mg/kg/day, Oral, Mouse REACH dossier information.

Aspiration hazard

Aspiration hazard 1.003 cSt @ 25°C/77°F REACH dossier information. Read across data. Asp. Tox. 1 - H304

linalool

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,200.0

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Species	Mouse
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	2,200.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	5,610.0
Species	Rabbit
Notes (dermal LD₅₀)	REACH dossier information.
ATE dermal (mg/kg)	5,610.0
<u>Skin corrosion/irritation</u>	
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. Irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, 1 hour, Rabbit REACH dossier information. Irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Screening - NOAEL 500 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 1000 mg/kg/day, Oral, Rat REACH dossier information.

butylphenyl methylpropional

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	1,390.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	1,390.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	2,001.0
Species	Rabbit

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Notes (dermal LD₅₀)	REACH dossier information.
ATE dermal (mg/kg)	2,001.0
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Moderate oedema - raised approximately 1 mm (3). REACH dossier information. Irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	REACH dossier information. Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Skin Sens. 1 - H317
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Repr. 2 - H361f Suspected of damaging fertility.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 4.1 mg/kg/day, Oral, Rat REACH dossier information.

hexyl salicylate

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ > 5000 mg/kg, Rat REACH dossier information. Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ > 5000 mg/kg, Rat REACH dossier information. Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
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.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, 24 hours, Rabbit REACH dossier information. Eye Irrit. 2 - H319 Causes serious eye irritation.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. Skin Sens. 1 - H317 May cause an allergic skin reaction.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.

tetramethyl acetyloctahydronaphthalenes

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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.

pin-2(3)-ene

Skin corrosion/irritation

Human skin model test Dose: 10 µl, 15 ± 0.5 minutes, Human Cell Viability (39.6 ± 5.6%) 15 minutes REACH dossier information. Irritating.

Serious eye damage/irritation

Serious eye damage/irritation REACH dossier information. Not irritating.

Skin sensitisation

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

2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol

Acute toxicity - oral

Notes (oral LD₅₀) > 2000 mg/kg, Rat REACH dossier information.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). 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 Bacterial reverse mutation test: Negative. REACH dossier information.

Reproductive toxicity

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

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

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Species	Rabbit
Notes (dermal LD₅₀)	REACH dossier information.
ATE dermal (mg/kg)	2,650.0
<u>Skin corrosion/irritation</u>	
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.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, Rabbit, REACH dossier information. Eye Irrit. 2 - H319 Causes serious eye irritation.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Reproductive toxicity</u>	
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.

2,4-dimethylcyclohex-3-ene-1-carbaldehyde

<u>Skin corrosion/irritation</u>	
Animal data	Skin Irrit. 2 - H315 Causes skin irritation.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Eye Irrit. 2 - H319 Causes serious eye irritation.
<u>Skin sensitisation</u>	
Skin sensitisation	Skin Sens. 1 - H317 May cause an allergic skin reaction.

coumarin

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	REACH dossier information. Converted acute toxicity point estimate (cATpE)
ATE oral (mg/kg)	500.0
<u>Skin corrosion/irritation</u>	
Animal data	Primary dermal irritation index: 1.15 REACH dossier information. Read across data. Not irritating.
<u>Serious eye damage/irritation</u>	

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Serious eye damage/irritation	REACH dossier information. Read across data. Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOEC > 0.25 %, Oral, Mouse P, F1 REACH dossier information.

2,6-di-tert-butyl-p-cresol

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ > 2930 mg/kg, Rat REACH dossier information.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ > 2000 mg/kg, Rat REACH dossier information.
<u>Skin corrosion/irritation</u>	
Animal data	REACH dossier information. Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	REACH dossier information. Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Patch test - Human: Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 25 mg/kg/day, Oral, Rat REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOAEL 500 mg/kg/day, Oral, Rat P REACH dossier information.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 100 mg/kg/day, Oral, Rat REACH dossier information.

geraniol

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	3,600.0

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Species	Rat
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	3,600.0
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ : > 5000 mg/kg, Rabbit REACH dossier information.
<u>Skin corrosion/irritation</u>	
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.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, 24 hours, Rabbit REACH dossier information. Eye Dam. 1 - H318 Causes serious eye damage.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	NOEL 2000 mg/kg/day, Oral, Rat REACH dossier information. Read across data.
<u>Reproductive toxicity</u>	
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

linalyl acetate

Acute toxicity - fish	LC ₅₀ , 96 hours: 11 mg/l, Cyprinus carpio (Common carp) REACH dossier information.
Acute toxicity - aquatic invertebrates	NOEC, 48 hours: 10 mg/l, Daphnia magna EC ₅₀ , 48 hours: 15 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 62 mg/l, Desmodemus subspicatus NOEC, 72 hours: 9.6 mg/l, Desmodemus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC ₂₀ , 30 minutes: > 1000 mg/l, Activated sludge REACH dossier information.

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2,6-Dimethyloct-7-en-2-ol

Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 38 mg/l, Daphnia magna NOEC, 48 hours: 10 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 80 mg/l, Desmodemus subspicatus NOEC, 72 hours: 25 mg/l, Desmodemus subspicatus LOEC, 72 hours: 50 mg/l, Desmodemus subspicatus REACH dossier information.

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

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	NOEC, 21 days: 0.093 mg/l, Lepomis macrochirus (Bluegill) LOEC, 21 days: 0.182 mg/l, Lepomis macrochirus (Bluegill) LC ₅₀ , 96 hours: 1.36 mg/l, Lepomis macrochirus (Bluegill) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC ₅₀ , 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 ₅₀ , 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)	1
Chronic toxicity - fish early life stage	NOEC, 21 days: 0.093 mg/l, Lepomis macrochirus (Bluegill) LOEC, 21 days: 0.182 mg/l, Lepomis macrochirus (Bluegill) LC ₅₀ , 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 ₅₀ , 5.5 days: 0.131 mg/l, Acartia tonsa REACH dossier information.

d-Limonene

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
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M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.720 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.36 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 150 mg/l, Desmodesmus subspicatus REACH dossier information. Read across data.
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 209 mg/l, Activated sludge REACH dossier information. Read across data.

Chronic aquatic toxicity

M factor (Chronic)	1
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linalool

Acute toxicity - fish	LC ₅₀ , 96 hours: 27.8 mg/l, Onchorhynchus mykiss (Rainbow trout) LC ₅₀ , 72 hours: 27.8 mg/l, Onchorhynchus mykiss (Rainbow trout) NOEC, 96 hours: < 3.5 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 59 mg/l, Daphnia magna EC ₅₀ , 24 hours: 71 mg/l, Daphnia magna NOEC, 48 hours: 25 mg/l, Daphnia magna EC ₁₀₀ , 48 hours: > 75 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 88.3 mg/l, Scenedesmus subspicatus EC ₁₀ , 96 hours: 38.4 mg/l, Scenedesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC ₅₀ , 30 minutes: > 100 mg/l, Activated sludge EC ₅₀ , 3 hours: > 100 mg/l, Activated sludge EC ₁₀ , 3 hours: > 100 mg/l, Activated sludge REACH dossier information.

butylphenyl methylpropional

Acute toxicity - fish	NOEC, 96 hours: 1.28 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 96 hours: 2.04 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 10.7 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 29.155 mg/l, Scenedesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC ₁₀ , 3 hours: > 100 mg/l, Activated sludge REACH dossier information.

hexyl salicylate

Acute aquatic toxicity

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LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₀ , 96 hours: 0.95 mg/l, Brachydanio rerio (Zebra Fish) LC ₁₀₀ , 96 hours: 1.9 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information. Read across data.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 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 EC ₅₀ , 48 hours: 0.357 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.61 mg/l, Scenedesmus subspicatus EC ₀ , 72 hours: 0.19 mg/l, Scenedesmus subspicatus NOEC, 72 hours: 0.15 mg/l, Scenedesmus subspicatus REACH dossier information.
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1

tetramethyl acetyloctahydronaphthalenes

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

pin-2(3)-ene

Acute toxicity - microorganisms EC₅₀, 3 hours: 326 mg/l, Activated sludge
REACH dossier information.
Read across data.

2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	NOEC, 96 hours: 0.49 mg/l, Lepomis macrochirus (Bluegill) LC ₅₀ , 96 hours: 1.1 mg/l, Lepomis macrochirus (Bluegill) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 0.63 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	NOEC, 96 hours: 0.44 mg/l, Pseudokirchneriella subcapitata EC ₅₀ , 96 hours: 2.5 mg/l, Pseudokirchneriella subcapitata REACH dossier information.
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 225 mg/l, Activated sludge EC ₁₀ , 3 hours: 10 mg/l, Activated sludge REACH dossier information.
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1

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citronellol

Acute toxicity - fish	NOEC, 96 hours: 4.6 mg/l, Leuciscus idus (Golden orfe) LC ₅₀ , 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 EC ₅₀ , 48 hours: 17.48 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 2.4 mg/l, Scenedesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC ₅₀ , 30 minutes: > 10000 mg/l, Pseudomonas putida REACH dossier information.

2,4-dimethylcyclohex-3-ene-1-carbaldehyde

Toxicity	Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.
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coumarin

Acute toxicity - fish	LC ₅₀ , 96 hours: 1.324 mg/l, REACH dossier information. QSAR
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 8.012 mg/l, Daphnia sp. REACH dossier information. QSAR
Acute toxicity - aquatic plants	EC ₅₀ , 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

2,6-di-tert-butyl-p-cresol

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: ≥ 0.57 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: > 0.7 mg/l, Daphnia magna EC ₅₀ , 48 hours: 0.48 - 0.61 mg/l, Daphnia magna NOEC, 48 hours: 0.15 - 0.23 mg/l, Daphnia magna REACH dossier information.

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Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 0.4 mg/l, Desmodesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC ₀ , 3 hours: 1000 mg/l, Activated sludge EC ₅₀ , 3 hours: > 10000 mg/l, Activated sludge REACH dossier information.
<u>Chronic aquatic toxicity</u>	
NOEC	0.01 < NOEC ≤ 0.1
M factor (Chronic)	1
Chronic toxicity - aquatic invertebrates	EC ₅₀ , 21 days: > 0.39 mg/l, Daphnia magna NOEC, 21 days: 0.316 mg/l, Daphnia magna LOEC, 21 days: 1 mg/l, Daphnia magna REACH dossier information.

geraniol

Acute toxicity - fish	NOEC, 96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish) LC ₀ , 96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 96 hours: ~ 22 mg/l, Brachydanio rerio (Zebra Fish) LC ₁₀₀ , 96 hours: 46.4 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₀ , 48 hours: 4 mg/l, Daphnia magna EC ₅₀ , 48 hours: 10.8 mg/l, Daphnia magna EC ₁₀₀ , 48 hours: 41.9 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	NOEC, 72 hours: 1 mg/l, Scenedesmus subspicatus EC ₁₀ , 72 hours: 3.77 mg/l, Scenedesmus subspicatus EC ₅₀ , 72 hours: 13.1 mg/l, Scenedesmus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC ₅₀ , 30 minutes: 70 mg/l, Activated sludge REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability No data available.

linalyl acetate

Stability (hydrolysis)	- Half-life : < 1 day @ 25°C REACH dossier information.
Biodegradation	Water - Degradation (0 - 10%): 1 day Water - Degradation (10 - 20%): 2 days Water - Degradation (70 - 80%): 20 days REACH dossier information. The substance is readily biodegradable.

2,6-Dimethyloct-7-en-2-ol

Biodegradation	Water - Degradation (72%): 28 days REACH dossier information. The substance is readily biodegradable.
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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 ₂ /g substance REACH dossier information.

d-Limonene

Phototransformation	Water - Half-life : 0.365 hours REACH dossier information. QSAR
Biodegradation	Water - Degradation (80%): 28 days REACH dossier information. Read across data. The substance is readily biodegradable.

linalool

Biodegradation	Water - Degradation (40.9%): 5 days Water - Degradation (60.5%): 15 days Water - Degradation (64.2%): 28 days REACH dossier information. The substance is readily biodegradable.
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butylphenyl methylpropional

Phototransformation	Water - DT ₅₀ : 11.66 hours REACH dossier information.
Biodegradation	Water - Degradation (80.7%): 28 days REACH dossier information. The substance is readily biodegradable.

hexyl salicylate

Biodegradation	Water - Degradation (91%): 28 days Water - Degradation (82%): 10 days REACH dossier information. The substance is readily biodegradable.
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pin-2(3)-ene

Biodegradation	Water - Degradation (76%): 28 days REACH dossier information. The substance is readily biodegradable.
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2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol

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Phototransformation	Water - DT ₅₀ : 0.308 - 0.7 hours REACH dossier information. QSAR
Biodegradation	Water - Degradation (0%): 28 days REACH dossier information. The product is not readily biodegradable.

citronellol

Phototransformation	Water - DT ₅₀ : 3.9 hours REACH dossier information. Calculation method.
Biodegradation	Water - Degradation (80 - 90%): 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.
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2,6-di-tert-butyl-p-cresol

Phototransformation	Water - DT ₅₀ : ~ 7 hours REACH dossier information. QSAR
Stability (hydrolysis)	- Half-life : 4 - 8 days @ 20°C REACH dossier information.
Biodegradation	Water - Degradation (4.5%): 28 days REACH dossier information. No biodegradation observed under test conditions.

geraniol

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

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not determined.

linalyl acetate

Bioaccumulative potential	BCF: 173.9 l/kg, Algae REACH dossier information. Calculation method.
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2,6-Dimethyloct-7-en-2-ol

Bioaccumulative potential	BCF: 64.8 l/kg, Algae REACH dossier information. QSAR
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1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

Armor All® Air Freshener Card Cool Mist

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

Partition coefficient log Pow: 5.3 REACH dossier information.

d-Limonene

Bioaccumulative potential BCF: 1022, REACH dossier information. QSAR

Partition coefficient log Pow: 4.38 REACH dossier information.

linalool

Bioaccumulative potential log Pow: 2.84, REACH dossier information.

butylphenyl methylpropional

Bioaccumulative potential BCF: 274.3 l/kg, Algae REACH dossier information.

Partition coefficient log Pow: 4.2 REACH dossier information.

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.

pin-2(3)-ene

Bioaccumulative potential BCF: 1845 l/kg, Algae REACH dossier information. QSAR

Partition coefficient log Pow: 4.487 REACH dossier information.

2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol

Bioaccumulative potential BCF: 65, Algae REACH dossier information. QSAR

Partition coefficient log Pow: 4.4 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.

coumarin

Partition coefficient log Pow: 1.39 REACH dossier information.

2,6-di-tert-butyl-p-cresol

Bioaccumulative potential BCF: 330 - 1800, Cyprinus carpio (Common carp) REACH dossier information.

Partition coefficient log Pow: 5.1 REACH dossier information.

geraniol

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Partition coefficient log Pow: 2.6 REACH dossier information.

12.4. Mobility in soil

Mobility The product is soluble in water.

linalyl acetate

Henry's law constant 176.31 Pa m³/mol @ 25°C REACH dossier information.

2,6-Dimethyloct-7-en-2-ol

Adsorption/desorption coefficient Water - log Koc: 2.25 @ 35°C REACH dossier information.

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.

d-Limonene

Adsorption/desorption coefficient Water - Koc : 1984 REACH dossier information. QSAR

linalool

Surface tension 8.3 mN/m @ 20°C REACH dossier information.

butylphenyl methylpropional

Henry's law constant 2.523 Pa m³/mol @ 25°C REACH dossier information. Calculation method.

pin-2(3)-ene

Adsorption/desorption coefficient Water - Koc: 2184 @ 25°C REACH dossier information. QSAR

citronellol

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

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.

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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.

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.

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Revision comments	Section 2: Hazards identification // 2.2. Label elements
Revision date	01/06/2016
Revision	2
Supersedes date	18/08/2015
SDS number	596
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. H318 Causes serious eye damage. H319 Causes serious eye irritation. H361f Suspected of damaging fertility. 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. H412 Harmful to aquatic life with long lasting effects.

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