



SAFETY DATA SHEET

Armor All® Air Freshener 3ct Cards Eucalyptus Mint

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 3ct Cards Eucalyptus Mint

Product number 18527

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

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

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Exemptions from CLP Article 17 [Article 29(2)] - 1.5.2.1. Labelling of packages where the contents do not exceed 125 ml] The following are not required for labelling: H319 Causes serious eye irritation.

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.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains linalool, L-p-mentha-1(6),8-dien-2-one, cineole, d-Limonene

Supplementary precautionary statements

P272 Contaminated work clothing should not be allowed out of the workplace.
 P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2,6-Dimethyloct-7-en-2-ol	5 - <10%
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	
Resin acids and Rosin acids, hydrogenated, Me esters	1 - <2.5%
CAS number: 8050-15-5 EC number: 232-476-2	
Classification	
Aquatic Chronic 3 - H412	
linalool	1 - <2.5%
CAS number: 78-70-6 EC number: 201-134-4	
Classification	
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317	
p-menth-1-en-8-ol	1 - <2.5%
CAS number: 98-55-5 EC number: 202-680-6	
Classification	
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

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2-phenylethanol			1 - <2.5%
CAS number: 60-12-8	EC number: 200-456-2	REACH registration number: 01-2119963921-31-XXXX	
Classification			
Acute Tox. 4 - H302 Eye Irrit. 2 - H319			
l-carvone			1 - <2.5%
CAS number: 6485-40-1	EC number: 229-352-5		
Classification			
Skin Sens. 1 - H317			
Menthyl acetate			1 - <2.5%
CAS number: 89-48-5	EC number: 201-911-8	REACH registration number: 01-2119983571-30-XXXX	
Classification			
Aquatic Chronic 2 - H411			
(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one			1 - <2.5%
CAS number: 79-77-6	EC number: 201-224-3		
Classification			
Aquatic Chronic 2 - H411			
cineole			1 - <2.5%
CAS number: 470-82-6	EC number: 207-431-5		
Classification			
Flam. Liq. 3 - H226 Skin Sens. 1B - H317			
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 Skin Sens. 1B - H317 Aquatic Chronic 2 - H411			

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d-Limonene	0.025 - <0.25%
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

l-limonene	0.025 - <0.25%
CAS number: 5989-54-8	EC number: 227-815-6
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

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Inhalation	If throat irritation or coughing persists, proceed as follows. Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist.
Skin contact	Brush off loose particles from skin. Wash with plenty of water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms are severe or persist after washing.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Drowsiness. Dizziness.

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Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur. May cause sensitisation or allergic reactions in sensitive individuals. Gastrointestinal symptoms, including upset stomach.
Skin contact	Due to the physical nature of this product, exposure by this route is unlikely. May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged skin contact may cause redness and irritation. Prolonged contact may cause dryness of the skin.
Eye contact	Due to the physical nature of this product, exposure by this route is unlikely. Irritating to eyes. Particles in the eyes may cause irritation and smarting. Solid particles trapped behind the eyelid may cause abrasive damage.

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

Notes for the doctor Treat symptomatically. Keep affected person under observation.

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

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

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 Use water to keep fire exposed containers cool and disperse vapours.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

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. Eliminate all ignition sources if safe to do so. Avoid contact with skin and eyes.

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 Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Eliminate all ignition sources if safe to do so. Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Use only non-sparking tools. 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Keep away from heat, sparks and open flame. Provide adequate ventilation.
Advice on general occupational hygiene	Avoid contact with eyes and prolonged skin contact. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in a cool and well-ventilated place. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

2,6-Dimethyloct-7-en-2-ol (CAS: 18479-58-8)

DNEL	Workers - Inhalation; Long term systemic effects: 73.5 mg/m ³ Workers - Dermal; Long term systemic effects: 20.8 mg/kg/day General population - Inhalation; Long term systemic effects: 21.7 mg/m ³ General population - Dermal; Long term systemic effects: 12.5 mg/kg/day General population - Oral; Long term systemic effects: 12.5 mg/kg/day
PNEC	Fresh water; 0.0278 mg/l Marine water; 0.00278 mg/l STP; 10 mg/l Sediment (Freshwater); 0.594 mg/kg Sediment (Marinewater); 0.059 mg/kg Soil; 0.103 mg/kg Oral; 111 mg/kg

linalool (CAS: 78-70-6)

DNEL	Workers - Inhalation; Long term systemic effects: 2.8 mg/m ³ Workers - Inhalation; Short term systemic effects: 16.5 mg/m ³ Workers - Dermal; Long term systemic effects: 2.5 mg/kg/day Workers - Dermal; Short term systemic effects: 5 mg/kg/day Workers - Dermal; Long term local effects: 3 mg/cm ² Workers - Dermal; Short term local effects: 3 mg/cm ² General population - Inhalation; Long term systemic effects: 0.7 mg/m ³ General population - Inhalation; Short term systemic effects: 4.1 mg/m ³ General population - Dermal; Long term systemic effects: 1.25 mg/kg/day General population - Dermal; Short term systemic effects: 23.5 mg/kg/day General population - Dermal; Long term local effects: 1.5 mg/cm ² General population - Dermal; Short term local effects: 1.5 mg/cm ² General population - Oral; Long term systemic effects: 0.2 mg/kg/day General population - Oral; Short term systemic effects: 1.2 mg/kg/day
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PNEC	Fresh water; 0.2 mg/l
	Marine water; 0.02 mg/l
	STP; 10 mg/l
	Sediment (Freshwater); 2.22 mg/kg
	Sediment (Marinewater); 0.222 mg/kg
	Soil; 0.327 mg/kg
	Oral; 7.8 mg/kg

Menthyl acetate (CAS: 89-48-5)

DNEL	Workers - Inhalation; Long term systemic effects: 33.6 mg/m ³
	Workers - Dermal; Long term systemic effects: 9.5 mg/kg/day
	General population - Inhalation; Long term systemic effects: 8.3 mg/m ³
	General population - Dermal; Long term systemic effects: 4.8 mg/kg/day
	General population - Oral; Long term systemic effects: 4.8 mg/kg/day

PNEC	Fresh water; 0.0027 mg/l
	Marine water; 0.00027 mg/l
	STP; 0.26 mg/l
	Sediment (Freshwater); 0.434 mg/kg
	Sediment (Marinewater); 0.043 mg/kg
	Soil; 0.085 mg/kg
	Oral; 317 mg/kg

undecan-4-olide (CAS: 104-67-6)

DNEL	Workers - Inhalation; Long term systemic effects: 19 mg/m ³
	Workers - Dermal; Long term systemic effects: 5.38 mg/kg/day
	General population - Inhalation; Long term systemic effects: 4.68 mg/m ³
	General population - Dermal; Long term systemic effects: 2.7 mg/kg/day
	General population - Oral; Long term systemic effects: 2.7 mg/kg/day

PNEC	Fresh water; 0.01752 mg/l
	Marine water; 0.00175 mg/l
	STP; 80 mg/l
	Sediment (Freshwater); 1.882 mg/kg
	Sediment (Marinewater); 0.188 mg/kg
	Soil; 0.366 mg/kg
	Oral; 66.7 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. All handling should only take place in well-ventilated areas. Avoid inhalation of vapours and spray/mists. Use explosion-proof electrical, ventilating and lighting equipment.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear tight-fitting, chemical splash goggles or face shield.

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Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Do not smoke in work area. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.
Environmental exposure controls	Keep container tightly sealed when not in use.

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.

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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 Keep away from heat, sparks and open flame. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid None known.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO₂). Carbon monoxide (CO). Toxic gases or vapours.

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.

ATE oral (mg/kg) 147,952.86

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

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

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

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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 Based on available data the classification criteria are not met.

Toxicological information on ingredients.

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.

Reproductive toxicity

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

Resin acids and Rosin acids, hydrogenated, Me esters

Acute toxicity - oral

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

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Acute toxicity - dermal

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

Skin corrosion/irritation

Animal data Dose: 0.5 g, 4 hours, Rabbit Primary dermal irritation index: 0.1 Not irritating. REACH dossier information.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 7 days, Rabbit Not irritating. REACH dossier information.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: 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 - NOEL 15000 ppm, Oral, Rat P REACH dossier information.

Reproductive toxicity - development Developmental toxicity: - NOAEL: 7500 ppm, Oral, Rat REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOEL 3000 ppm, Oral, Rat REACH dossier information.

linalool

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,790.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 2,790.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,610.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 5,610.0

Skin corrosion/irritation

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

Serious eye damage/irritation

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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: 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.

p-menth-1-en-8-ol

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	4,300.0
Species	Rat
Notes (oral LD₅₀)	Read-across data.
ATE oral (mg/kg)	4,300.0
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ >2000 mg/kg, Dermal, Rat Read-across data.
<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). Not fully reversible in 7 days Irritating to skin.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, 24 hours, Rabbit Read-across data. Irritating to eyes.
<u>Skin sensitisation</u>	
Skin sensitisation	Local Lymph Node Assay (LLNA) - Rat: Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Read-across data.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - NOAEL ≥314 mg/kg/day, Oral, Rat P Read-across data.
Reproductive toxicity - development	Maternal toxicity:, Developmental toxicity: - NOAEL: ≥250 mg/kg/day, Oral, Rat Read-across data.
<u>Specific target organ toxicity - repeated exposure</u>	

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STOT - repeated exposure NOAEL \geq 314 mg/kg/day, Oral, Rat Read-across data.

2-phenylethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,603.3

Species Rat

ATE oral (mg/kg) 1,603.3

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,535.0

Species Rabbit

ATE dermal (mg/kg) 2,535.0

l-carvone

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,900.0

Species Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat

Serious eye damage/irritation

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

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Reproductive toxicity

Reproductive toxicity - development Maternal toxicity:, Developmental toxicity: - NOAEL: 200 mg/kg/day, Oral, Rat

Menthyl acetate

Acute toxicity - oral

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

Acute toxicity - dermal

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

Skin corrosion/irritation

Human skin model test Cell Viability 105.3% 15 minutes Not irritating.

Serious eye damage/irritation

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Serious eye damage/irritation Dose: 0.1 ml, 24 hours, Rabbit

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Reproductive toxicity

Reproductive toxicity - development Maternal toxicity: - NOEL: 277 mg/kg/day, Oral, Rat Read-across data.

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

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat Read-across data.

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 72 hours, Rabbit Not irritating.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Read-across data.

Genotoxicity - in vivo Chromosome aberration: Negative.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOEL 10 mg/kg/day, Oral, Rat P Read-across data.

Reproductive toxicity - development Maternal toxicity: - NOAEL: 100 mg/kg/day, Oral, Rat Teratogenicity: - NOAEL: 400 mg/kg/day, Oral, Rat

cineole

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rat Read-across data.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.75 ml, 10 minutes, Not irritating.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative.

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Genotoxicity - in vivo Gene mutation: Negative.

Reproductive toxicity

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 600 mg/kg/day, Oral, Rat

d-Limonene

Acute toxicity - oral

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

Skin corrosion/irritation

Animal data Irritating to skin. REACH dossier information.

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

l-limonene

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 72 hours, Rabbit Not irritating.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo DNA damage and/or repair: Negative.

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Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological Information

12.1. Toxicity

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

Ecological information on ingredients.

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

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 38 mg/l, Daphnia magna
NOEC, 48 hours: 10 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 80 mg/l, Desmodesmus subspicatus
NOEC, 72 hours: 25 mg/l, Desmodesmus subspicatus
LOEC, 72 hours: 50 mg/l, Desmodesmus subspicatus
REACH dossier information.

Resin acids and Rosin acids, hydrogenated, Me esters

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: >1000 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL₅₀, 72 hours: >100 mg/l, Pseudokirchneriella subcapitata

linalool

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 27.8 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC₅₀, 72 hours: 27.8 mg/l, Oncorhynchus mykiss (Rainbow trout)
NOEC, 96 hours: < 3.5 mg/l, Oncorhynchus mykiss (Rainbow trout)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 59 mg/l, Daphnia magna
EC₅₀, 24 hours: 71 mg/l, Daphnia magna
NOEC, 48 hours: 25 mg/l, Daphnia magna
EC₁₀₀, 48 hours: > 75 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 96 hours: 88.3 mg/l, Scenedesmus subspicatus
EC₁₀, 96 hours: 38.4 mg/l, Scenedesmus subspicatus
REACH dossier information.

Acute toxicity - microorganisms EC₅₀, 30 minutes: > 100 mg/l, Activated sludge
EC₅₀, 3 hours: > 100 mg/l, Activated sludge
EC₁₀, 3 hours: > 100 mg/l, Activated sludge
REACH dossier information.

p-menth-1-en-8-ol

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Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 70 mg/l, Brachydanio rerio (Zebra Fish) Read-across data.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 73 mg/l, Daphnia magna Read-across data.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 68 mg/l, Pseudokirchneriella subcapitata Read-across data.

l-carvone

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 6.1 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 38 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 19 mg/l, Pseudokirchneriella subcapitata

Menthyl acetate

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 22 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 9.1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 2.7 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 0.16 mg/l, Pseudokirchneriella subcapitata

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

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 5.09 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 4.03 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 22.15 mg/l, Desmodemus subspicatus

cineole

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 57 mg/l, Oncorhynchus mykiss (Rainbow trout) NOEC, 96 hours: 32 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 100 mg/l, Daphnia magna NOEC, 48 hours: 100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >74 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 37 mg/l, Pseudokirchneriella subcapitata EC ₅₀ , 96 hours: >100 mg/l, Pseudokirchneriella subcapitata NOEC, 96 hours: 50 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: >100 mg/l, Activated sludge

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d-Limonene

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.720 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, Desmodemus 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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l-limonene

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.36 mg/l, Daphnia magna Weight of evidence.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 150 mg/l, Desmodemus subspicatus Weight of evidence.

Chronic aquatic toxicity

M factor (Chronic)	1
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12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

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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Resin acids and Rosin acids, hydrogenated, Me esters

Biodegradation	Water - Degradation 40%: 28 days Not readily biodegradable.
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linalool

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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.

p-menth-1-en-8-ol

Biodegradation Water - Degradation 80%: 28 days
Read-across data.

l-carvone

Biodegradation Water - Degradation 90%: 28 days
The substance is readily biodegradable.

Menthyl acetate

Biodegradation Water - Degradation 48%: 28 days

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

Phototransformation Air - DT₅₀ : 1.61 hours
Calculation method.

Biodegradation Water - Degradation 70-80%: 28 days

cineole

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

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.

l-limonene

Biodegradation Water - Degradation 85%: 28 days
The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

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

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Bioaccumulative potential BCF: 64.8 l/kg, Fish REACH dossier information. QSAR

Resin acids and Rosin acids, hydrogenated, Me esters

Bioaccumulative potential BCF: 3.82 - 137.2, Calculation method.

Partition coefficient log Pow: >6.5

linalool

Partition coefficient log Pow: 2.9 REACH dossier information.

p-menth-1-en-8-ol

Partition coefficient log Pow: 2.6 Read-across data.

Menthyl acetate

Bioaccumulative potential BCF: 202, Calculation method.

Partition coefficient log Pow: 4

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

Bioaccumulative potential BCF: 202.4, Calculation method.

Partition coefficient log Pow: 4

cineole

Partition coefficient log Pow: 3.4

d-Limonene

Bioaccumulative potential BCF: 1022, REACH dossier information. QSAR

Partition coefficient log Pow: 4.38 REACH dossier information.

l-limonene

Partition coefficient log Pow: 4.38

12.4. Mobility in soil

Mobility The product is partly soluble in water and may spread in the aquatic environment.

Ecological information on ingredients.

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

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

Resin acids and Rosin acids, hydrogenated, Me esters

Adsorption/desorption coefficient Log Koc: 6.79 - 8.8

linalool

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

p-menth-1-en-8-ol

Mobility Soluble in water.

Menthyl acetate

Mobility Slightly soluble in water.

Adsorption/desorption coefficient Log Koc: 3.196 Calculation method.

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

Adsorption/desorption coefficient Log Koc: 2.8 Calculation method.

cineole

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

Surface tension 61.5 mN/m @ 20°C

d-Limonene

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

l-limonene

Mobility Slightly soluble in water.

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.

Ecological information on ingredients.

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

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

linalool

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

p-menth-1-en-8-ol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

l-carvone

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Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Menthyl acetate

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

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

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

cineole

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

d-Limonene

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

l-limonene

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>IATA: International Air Transport Association.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>DNEL: Derived No Effect Level.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>BCF: Bioconcentration Factor.</p>
Classification procedures according to Regulation (EC) 1272/2008	Skin Sens. 1 - H317, Eye Irrit. 2 - H319, Aquatic Chronic 3 - H412: Calculation method.
Revision comments	This is first issue.
Revision date	19/09/2017
SDS number	1163

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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. 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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