



SAFETY DATA SHEET

Armor All® Air Freshener 3ct Cards Tranquil Skies

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 Tranquil Skies
Product number 18515

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

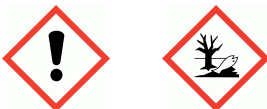
2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Warning

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)] - 1.5.2.1. Labelling of packages where the contents do not exceed 125 ml] The following are not required for labelling: H411 Toxic to aquatic life with long lasting effects.

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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	2-(4-tert-butylbenzyl)propionaldehyde, 2-benzylideneheptanal, 3-p-cumenyl-2-methylpropionaldehyde, 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

Benzyl benzoate CAS number: 120-51-4 EC number: 204-402-9 REACH registration number: 01-2119976371-33-XXXX M factor (Acute) = 1	10 - <25%
Classification Acute Tox. 4 - H302 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	
2-(4-tert-butylbenzyl)propionaldehyde CAS number: 80-54-6 EC number: 201-289-8 REACH registration number: 01-2119485965-18-XXXX	1 - <2.5%
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Repr. 2 - H361 Aquatic Chronic 2 - H411	
cis-2-tert-butylcyclohexyl acetate CAS number: 20298-69-5 EC number: 243-718-1 REACH registration number: 01-2119970713-33	1 - <2.5%
Classification Aquatic Chronic 2 - H411	

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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	
2-benzylideneheptanal	0.5 - <1%
CAS number: 122-40-7	EC number: 204-541-5
Classification	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
3-p-cumenyl-2-methylpropionaldehyde	0.5 - <1%
CAS number: 103-95-7	EC number: 203-161-7
Classification	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
d-Limonene	0.25 - <0.5%
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	
Geraniol	0.25 - <0.5%
CAS number: 106-24-1	EC number: 203-377-1
	REACH registration number: 01-2119552430-49-XXXX
Classification	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	

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Pentadecan-15-olide		0.25 - <0.5%
CAS number: 106-02-5	EC number: 203-354-6	REACH registration number: 01-2119987323-31-XXXX
Classification		
Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		
piperonal		0.25 - <0.5%
CAS number: 120-57-0	EC number: 204-409-7	
Classification		
Skin Sens. 1B - H317		
Linalool		0.025 - <0.25%
CAS number: 78-70-6	EC number: 201-134-4	
Classification		
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317		
A mixture of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one; a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one		0.025 - <0.25%
CAS number: 34902-57-3	EC number: 422-320-3	REACH registration number: 01-0000016883-62-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
2,6-di-tert-butyl-p-cresol		0.025 - <0.25%
CAS number: 128-37-0	EC number: 204-881-4	REACH registration number: 01-2119480433-40-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

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allyl heptanoate		0.025 - <0.25%
CAS number: 142-19-8	EC number: 205-527-1	REACH registration number: 01-2119488961-23-XXXX
M factor (Acute) = 1		
Classification		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Aquatic Acute 1 - H400		
Aquatic Chronic 3 - H412		
pin-2(10)-ene		0.025 - <0.25%
CAS number: 127-91-3	EC number: 204-872-5	
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		
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		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		0.025 - <0.25%
CAS number: 57378-68-4	EC number: 260-709-8	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

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3-(4-tert-butylphenyl)propionaldehyde	0.025 - <0.25%
CAS number: 18127-01-0	EC number: 242-016-2
Classification Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Repr. 2 - H361f STOT RE 2 - H373 Aquatic Chronic 3 - H412	
3-(p-methoxyphenyl)-2-methylpropionaldehyde	0.025 - <0.25%
CAS number: 5462-06-6	EC number: 226-749-5
Classification Skin Sens. 1 - H317	
allyl hexanoate	0.025 - <0.25%
CAS number: 123-68-2	EC number: 205-527-1
	REACH registration number: 01-2119983573-26-XXXX
M factor (Acute) = 1	
Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412	
ethyl acetate	0.025 - <0.25%
CAS number: 141-78-6	EC number: 205-500-4
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	

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.

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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.
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. May cause irritation.

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

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

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.
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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 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.

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.

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

Occupational exposure limits

ethyl acetate

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

WEL = Workplace Exposure Limit

Benzyl benzoate (CAS: 120-51-4)

DNEL

Workers - Inhalation; Long term systemic effects: 5.1 mg/m³
 Workers - Inhalation; Short term systemic effects: 102 mg/m³
 Workers - Dermal; Long term systemic effects: 2.6 mg/kg/day
 General population - Inhalation; Long term systemic effects: 1.25 mg/m³
 General population - Inhalation; Long term systemic effects: 25 mg/m³
 General population - Dermal; Long term systemic effects: 1.3 mg/kg/day
 General population - Oral; Long term systemic effects: 0.4 mg/kg/day
 General population - Oral; Short term systemic effects: 78 mg/kg/day

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PNEC

Fresh water; 0.017 mg/l
 marine water; 0.002 mg/l
 STP; 100 mg/l
 Sediment (Freshwater); 10.66 mg/kg
 Sediment (Marinewater); 1.07 mg/kg
 Soil; 2.12 mg/kg

2-(4-tert-butylbenzyl)propionaldehyde (CAS: 80-54-6)

PNEC

Fresh water; 0.004 mg/l
 Fresh water, Intermittent release; 0.024 mg/l
 marine water; 0 mg/l
 STP; 10 mg/l
 Sediment (Freshwater); 0.528 mg/kg
 Sediment (Marinewater); 0.053 mg/kg
 Soil; 0.103 mg/kg

cis-2-tert-butylcyclohexyl acetate (CAS: 20298-69-5)

PNEC

Fresh water; 0.011 mg/l
 Fresh water, Intermittent release; 0.017 mg/l
 marine water; 0.001 mg/l
 STP; 10 mg/l
 Sediment (Freshwater); 1.5 mg/kg
 Sediment (Marinewater); 0.15 mg/kg
 Soil; 0.293 mg/kg

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

DNEL

Workers - Inhalation; Long term systemic effects: 73.5 mg/m³
 Workers - Dermal; Long term systemic effects: 20.8 mg/kg/day
 General population - Inhalation; Long term systemic effects: 21.7 mg/m³
 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

benzyl acetate (CAS: 140-11-4)

DNEL

Workers - Inhalation; Long term systemic effects: 9 mg/m³
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg/day
 General population - Inhalation; Long term systemic effects: 2.2 mg/m³
 General population - Dermal; Long term systemic effects: 1.3 mg/kg/day
 General population - Oral; Long term systemic effects: 1.3 mg/kg/day

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PNEC	Fresh water; 0.018 mg/l
	marine water; 0.002 mg/l
	STP; 8.55 mg/l
	Sediment (Freshwater); 0.526 mg/kg
	Sediment (Marinewater); 0.053 mg/kg
	Soil; 0.094 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	

Geraniol (CAS: 106-24-1)

DNEL	Workers - Inhalation; Long term systemic effects: 161.6 mg/m ³
	Workers - Dermal; Long term systemic effects: 12.5 mg/kg/day
	Workers - Dermal; Long term local effects: 11800 µg/cm ²
	General population - Inhalation; Long term systemic effects: 47.8 mg/m ³
	General population - Dermal; Long term systemic effects: 7.5 mg/kg/day
	General population - Dermal; Long term local effects: 11800 µg/cm ²
General population - Oral; Long term systemic effects: 13.75 mg/kg/day	

PNEC	Fresh water; 0.011 mg/l
	Fresh water, Intermittent release; 0.108 mg/l
	marine water; 0.001 mg/l
	STP; 0.7 mg/l
	Sediment (Freshwater); 0.115 mg/kg
	Sediment (Marinewater); 0.011 mg/kg
Soil; 0.017 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) 8,124.96

Acute toxicity - dermal

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

ATE dermal (mg/kg) 213,424.54

Acute toxicity - inhalation

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

ATE inhalation (vapours mg/l) 1,580.53

Skin corrosion/irritation

Skin corrosion/irritation 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 May cause an allergic skin reaction.

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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 Based on available data the classification criteria are not met.

Toxicological information on ingredients.

Benzyl benzoate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,880.0

Species Rat

ATE oral (mg/kg) 1,880.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit 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: No oedema (0). 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.

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 781 mg/kg/day, Dermal, Rat REACH dossier information.

2-(4-tert-butylbenzyl)propionaldehyde

Acute toxicity - oral

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Acute toxicity oral (LD₅₀ mg/kg) 1,390.0

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 1,390.0

Acute toxicity - dermal

Notes (dermal LD₅₀) REACH dossier information.

Skin corrosion/irritation

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.

Serious eye damage/irritation

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

Skin sensitisation

Skin sensitisation Skin Sens. 1 - H317

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 Repr. 2 - H361f Suspected of damaging fertility.

Reproductive toxicity - development Developmental toxicity: - NOAEL: 4.1 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

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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.

2-benzylideneheptanal

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,730.0

Species Rat

ATE oral (mg/kg) 3,730.0

3-p-cumenyl-2-methylpropionaldehyde

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >5000 mg/kg, Dermal, Rat REACH dossier information.

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). 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: Sensitising. REACH dossier information.

Germ cell mutagenicity

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

Reproductive toxicity

Reproductive toxicity - fertility One-generation study - NOAEL 25 mg/kg/day, Oral, Rat P REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 300 mg/kg/day, Oral, Rabbit REACH dossier information.

d-Limonene

Acute toxicity - oral

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

Skin corrosion/irritation

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Animal data	Irritating to skin. REACH dossier information.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Dose: 0.1 ml, 7 days, Rabbit REACH dossier information. Not 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	DNA damage and/or repair: Negative. REACH dossier information.
<u>Carcinogenicity</u>	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL 1650 mg/kg/day, Oral, Mouse REACH dossier information.
<u>Aspiration hazard</u>	
Aspiration hazard	1.003 cSt @ 25°C/77°F REACH dossier information. Read-across data. Asp. Tox. 1 - H304

Geraniol

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

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Carcinogenicity

Carcinogenicity NOEL 2000 mg/kg/day, Oral, Rat REACH dossier information. Read-across data.

Reproductive toxicity

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.

Pentadecan-15-olide

Acute toxicity - oral

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

Acute toxicity - dermal

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

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: No oedema (0). Not irritating. REACH dossier information.

Skin sensitisation

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

Germ cell mutagenicity

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

Reproductive toxicity

Reproductive toxicity - fertility One-generation study - NOAEL ≥1000 mg/kg/day, Oral, Rat P REACH dossier information. Read-across data.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL ≥1000 mg/kg/day, Oral, Rat REACH dossier information. Read-across data.

piperonal

Acute toxicity - dermal

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

Serious eye damage/irritation

Serious eye damage/irritation Rabbit Not irritating.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity Dose level: 0.1 - 0.5 %, Oral, Rat No evidence of carcinogenicity in animal studies.

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Reproductive toxicity

Reproductive toxicity - development Developmental toxicity: - NOAEL: > 250 mg/kg/day, Oral, Rat

allyl heptanoate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 218.0

Species Rat

Notes (oral LD₅₀) Acute Tox. 4 - H302 Harmful if swallowed. cATpE: Converted Acute Toxicity Point Estimate.

ATE oral (mg/kg) 218.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 810.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 810.0

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 1 hour, Rabbit Eye Irrit. 2 - H319 Causes serious eye irritation. 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 - NOEL 30 mg/kg/day, Oral, Rat P REACH dossier information.

Reproductive toxicity - development Developmental toxicity: - NOAEL: 10 mg/kg/day, Oral, Rat REACH dossier information. Read-across data.

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

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

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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.

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

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Skin sensitisation

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

allyl hexanoate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 280.0

Species Guinea pig

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 280.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 820.0

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information.

ATE dermal (mg/kg) 820.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) cATpE: Converted Acute Toxicity Point Estimate. Acute Tox. 3 - H331 Toxic if inhaled.

ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation

Human skin model test Cell Viability (79.8%) 15 minutes REACH dossier information. Not irritating.

Serious eye damage/irritation

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

Skin sensitisation

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

Germ cell mutagenicity

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

ethyl acetate

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 20000 mg/kg, Rabbit REACH dossier information.

Serious eye damage/irritation

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

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.

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

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 20700 mg/kg/day, Oral, Mouse P Read-across data. REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 900 mg/kg/day, Oral, Rat REACH dossier information.

SECTION 12: Ecological information

12.1. Toxicity

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

Ecological information on ingredients.

Benzyl benzoate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 2.32 mg/l, Brachydanio rerio (Zebra Fish)
REACH dossier information.

Acute toxicity - aquatic invertebrates NOEC, 48 hours: 1.73 mg/l, Daphnia magna
EC₅₀, 48 hours: 3.09 mg/l, Daphnia magna
REACH dossier information.

Acute toxicity - aquatic plants NOEC, 72 hours: 0.247 mg/l, Pseudokirchneriella subcapitata
EC₅₀, 72 hours: 0.475 mg/l, Pseudokirchneriella subcapitata
REACH dossier information.

Chronic aquatic toxicity

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Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.258 mg/l, Daphnia magna
 LOEC, 21 days: 0.455 mg/l, Daphnia magna
 REACH dossier information.

2-(4-tert-butylbenzyl)propionaldehyde

Acute aquatic toxicity

Acute toxicity - fish NOEC, 96 hours: 1.28 mg/l, Brachydanio rerio (Zebra Fish)
 LC₅₀, 96 hours: 2.04 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 10.7 mg/l, Daphnia magna
 REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 29.155 mg/l, Scenedesmus subspicatus
 REACH dossier information.

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

cis-2-tert-butylcyclohexyl acetate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 5.6 mg/l, Brachydanio rerio (Zebra Fish)
 REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 17 mg/l, Daphnia magna
 REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 4.2 mg/l, Scenedesmus subspicatus
 NOEC, 72 hours: 0.57 mg/l, Scenedesmus subspicatus
 REACH dossier information.

benzyl acetate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 4 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 17 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 110 mg/l, Desmodesmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 28 days: 0.92 mg/l, Oryzias latipes (Red killifish)

3-p-cumenyl-2-methylpropionaldehyde

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.4 mg/l, Daphnia magna
 REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 4.3 mg/l, Pseudokirchneriella subcapitata
 NOEC, 72 hours: 0.72 mg/l, Pseudokirchneriella subcapitata
 REACH dossier information.

d-Limonene

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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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Pentadecan-15-olide

Acute aquatic toxicity

Acute toxicity - aquatic plants	EC ₁₀ , 72 hours: 0.421 mg/l, Desmodemus subspicatus EC ₅₀ , 72 hours: >0.47 mg/l, Desmodemus subspicatus REACH dossier information.
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Chronic aquatic toxicity

Chronic toxicity - fish early life stage	LOEC, 33 days: 0.11 mg/l, Pimephales promelas (Fat-head Minnow) NOEC, 33 days: 0.027 mg/l, Pimephales promelas (Fat-head Minnow) Read-across data. REACH dossier information.
Chronic toxicity - aquatic invertebrates	LOEC, 21 days: 0.127 mg/l, Daphnia magna NOEC, 21 days: 0.068 mg/l, Daphnia magna REACH dossier information.

A mixture of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one; a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
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M factor (Acute)	1
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Chronic aquatic toxicity

M factor (Chronic)	1
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2,6-di-tert-butyl-p-cresol

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
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M factor (Acute)	1
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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.
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 0.4 mg/l, Desmodemus subspicatus REACH dossier information.
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 1000 mg/l, Activated sludge EC ₅₀ , 3 hours: > 10000 mg/l, Activated sludge REACH dossier information.

Chronic aquatic toxicity

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.

allyl heptanoate

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: 0.89 mg/l, Daphnia magna EC ₅₀ , 48 hours: 0.63 mg/l, Daphnia magna EC ₁₀₀ , 48 hours: 1.25 mg/l, Daphnia magna 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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allyl hexanoate

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 24 hours: 0.201 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 48 hours: 0.117 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 72 hours: 0.117 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 96 hours: 0.117 mg/l, Brachydanio rerio (Zebra Fish) REACH dossier information.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2 mg/l, Daphnia magna REACH dossier information.

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Acute toxicity - aquatic plants

NOEC, 72 hours: 0.158 mg/l, *Desmodemus subspicatus*
 EC₅₀, 72 hours: > 4.6 mg/l, *Desmodemus subspicatus*
 REACH dossier information.

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

Benzyl benzoate

Biodegradation

Water - Degradation 94%: 28 days
 The substance is readily biodegradable.
 REACH dossier information.

2-(4-tert-butylbenzyl)propionaldehyde

Phototransformation

Water - DT₅₀ : 11.66 hours
 REACH dossier information.

Biodegradation

Water - Degradation (80.7%): 28 days
 REACH dossier information.
 The substance is readily biodegradable.

cis-2-tert-butylcyclohexyl acetate

Biodegradation

Water - Degradation 43%: 28 days
 Not readily biodegradable.
 REACH dossier information.

benzyl acetate

Biodegradation

Water - Degradation 100.9%: 28 days
 The substance is readily biodegradable.

3-p-cumenyl-2-methylpropionaldehyde

Biodegradation

Water - Degradation 65.5%: 28 days
 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.

Pentadecan-15-olide

Biodegradation

Water - Degradation 90%: 28 days
 REACH dossier information.

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

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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.

allyl heptanoate

Biodegradation	Water - Degradation (15%): 2 days Water - Degradation (78%): 12 days Water - Degradation (81%): 28 days REACH dossier information. The substance is readily biodegradable.
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allyl hexanoate

Stability (hydrolysis)	pH4 - Half-life : 302 hours @ 25°C pH7 - Half-life : 695 hours @ 25°C pH9 - Half-life : 128 hours @ 25°C REACH dossier information.
Biodegradation	Water - Degradation (19%): 2 days Water - Degradation (62%): 7 days Water - Degradation (70%): 28 days REACH dossier information. The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Benzyl benzoate

Bioaccumulative potential	BCF: 193.4 L/kg, Calculation method. REACH dossier information.
Partition coefficient	log Pow: ~ 3.97 REACH dossier information.

2-(4-tert-butylbenzyl)propionaldehyde

Bioaccumulative potential	BCF: 274.3 l/kg, Fish REACH dossier information.
Partition coefficient	log Pow: 4.2 REACH dossier information.

cis-2-tert-butylcyclohexyl acetate

Bioaccumulative potential	BCF: 203, Oncorhynchus mykiss (Rainbow trout) REACH dossier information.
Partition coefficient	log Pow: 4.8 REACH dossier information.

benzyl acetate

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Bioaccumulative potential BCF: 8, Calculation method.

Partition coefficient log Pow: 1.96

3-p-cumenyl-2-methylpropionaldehyde

Partition coefficient log Pow: 3.4 REACH dossier information.

d-Limonene

Bioaccumulative potential BCF: 1022, REACH dossier information. QSAR

Partition coefficient log Pow: 4.38 REACH dossier information.

Pentadecan-15-olide

Bioaccumulative potential BCF: 598.9 L/kg, Calculation method. REACH dossier information.

Partition coefficient log Pow: 5.79 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.

allyl heptanoate

Bioaccumulative potential BCF: 193.2 l/kg, Fish REACH dossier information. QSAR

Partition coefficient log Pow: 3.97 REACH dossier information.

allyl hexanoate

Bioaccumulative potential BCF: 59.2 l/kg, Fish REACH dossier information. QSAR

Partition coefficient log Pow: 3.191 REACH dossier information.

12.4. Mobility in soil

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

Ecological information on ingredients.

Benzyl benzoate

Adsorption/desorption coefficient Water - Log Koc: 3.8 @ 40°C REACH dossier information.

2-(4-tert-butylbenzyl)propionaldehyde

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

cis-2-tert-butylcyclohexyl acetate

Adsorption/desorption coefficient Water - Log Koc: 3.12 @ 35°C REACH dossier information.

benzyl acetate

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Adsorption/desorption coefficient Log Koc: 2.4

3-p-cumenyl-2-methylpropionaldehyde

Adsorption/desorption coefficient Soil - Log Koc: 3.05 @ 35°F REACH dossier information.

d-Limonene

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

Pentadecan-15-olide

Adsorption/desorption coefficient Log Koc: 4.65 Read-across data. REACH dossier information.

allyl heptanoate

Adsorption/desorption coefficient - log Koc: 2.986 @ 20°C REACH dossier information. QSAR

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.

Benzyl benzoate

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

2-(4-tert-butylbenzyl)propionaldehyde

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

cis-2-tert-butylcyclohexyl acetate

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

benzyl acetate

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

3-p-cumenyl-2-methylpropionaldehyde

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

d-Limonene

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

Pentadecan-15-olide

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

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

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

allyl heptanoate

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

allyl hexanoate

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

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ATE: Acute Toxicity Estimate. DNEL: Derived No Effect Level. LC ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. BCF: Bioconcentration Factor.
Classification procedures according to Regulation (EC) 1272/2008	Skin Sens. 1 - H317, Aquatic Chronic 2 - H411: Calculation method.
Revision date	01/05/2019
Revision	1
Supersedes date	19/09/2017
SDS number	1088

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Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H361f Suspected of damaging fertility if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
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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