



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006

Supersedes Date 19-05-2021

Revision date 15-12-2022

Revision Number 2

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name AXE 3D HANGING AIR FRESHENER - AFRICA

Product Code(s) 71004

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

Recommended use Air freshener

Uses advised against None known

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Energizer France SAS  
2 Rue Jacques Daguerre  
92500 Rueil-Malmaison  
France  
Tel: +44(0)8000353376  
ConsumerServiceEU@energizer.com

### 1.4. Emergency telephone number

Emergency Telephone 1-314-985-1511 Int'l: 1-800-526-4727  
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

National emergency telephone number	
Austria	Vergiftungsinformationszentrale Notruf-Telefon: +43 1 406 43 43
Belgium	Poison Control Centre, Belgique Tel: 070 245 245; Luxembourg Tel: (+352) 8002-5500
France	Numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59
Germany	Poison Control Center - Charité - Universitätsmedizin Berlin, (+49) 30 30686700
Ireland	Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166
Italy	Roma – Tel: 06-68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA) Roma – Tel: 06-3054343 (CAV Policlinico "A. Gemelli") Roma – Tel: 06-49978000 (CAV Policlinico "Umberto I") Foggia – Tel: 800183459 (Az. Osp. Univ. Foggia) Napoli – Tel: 081-5453333 (Az. Osp. "A. Cardarelli") Firenze – Tel: 055-7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica) Pavia – Tel: 0382-24444 (CAV Centro Nazionale di Informazione Tossicologica) Milano – Tel: 02-66101029 (Osp. Niguarda Ca' Granda)

	Bergamo – Tel: 800883300 (Azienda Ospedaliera Papa Giovanni XXII) Verona – Tel: 800011858 (Azienda Ospedaliera Integrata Verona)
Netherlands	Nationaal Vergiftigingen Informatie Centrum. Tel 030 274 88 88 (Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen)
Poland	Bureau for Chemical Substances, Tel: +48 42 2538 400
Portugal	Centro de informação antivenenos. Tel 800 250 250
Spain	+34 91 562 04 20
Switzerland	Tox Info Suisse +41 44 251 51 51 (Emergency Number 145)
United Kingdom	Product information has been submitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health professionals.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

### 2.2. Label elements

Contains Isocyclemone E, hexyl cinnamic aldehyde, Coumarin, Geraniol, Isomenthone, Methyl 2,4-dihydroxy-3,6-dimethylbenzoate, 3,7-dimethyloctan-3-ol, Benzyl salicylate, Citronellol, Nerol, Linalyl acetate, Eucalyptol, 3-(p-methoxyphenyl)-2-methylpropionaldehyde, Linalool



### Signal word

Warning

### Hazard statements

H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

### Precautionary Statements - EU (§28, 1272/2008)

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.

### 2.3. Other hazards

The product does not contain any substance(s) classified as PBT or vPvB

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

**3.2 Mixtures**

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Polyethylene 9002-88-4	10 - <25%	-	-	[C]	-	-	-
Isocyclemone E 54464-57-2	2.5 - <5%	01-2119489989-04-0000	259-174-3	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	-	1	1
2,6-dimethylheptan-2-ol 13254-34-7	2.5 - <5%	01-2120275178-48-0000	236-244-1	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate 4707-47-5	0.5 - <1%	01-2120762759-36-0000	225-193-0	Skin Sens. 1B (H317)	-	-	-
hexyl cinnamic aldehyde 101-86-0	0.5 - <1%	01-2119533092-50-0000	202-983-3	Skin Sens. 1 (H317)	-	-	-
Coumarin 91-64-5	0.5 - <1%	01-2119949300-45-0000	202-086-7	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Aquatic Chronic 2 (H411) Skin Sens. 1 (H317)	-	-	-
3,7-dimethyloctan-3-ol 78-69-3	0.5 - <1%	01-2119454788-21-0000	201-133-9	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Geraniol 106-24-1	0.25 - <0.5%	01-2119552430-49-0000	203-377-1	Eye Dam. 1 (H318) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	-	-	-
Benzyl salicylate 118-58-1	0.25 - <0.5%	01-2119969442-31-0000	204-262-9	Aquatic Chronic 3 (H412) Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	-	-	-
Nerol 106-25-2	0.025 - <0.25%	01-2119983244-33-0000	203-378-7	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Linalyl acetate 115-95-7	0.025 - <0.25%	01-2119454789-19-0000	204-116-4	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Linalool 78-70-6	0.025 - <0.25%	01-2119474016-42-0000	201-134-4	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Isomenthone 491-07-6	0.025 - <0.25%	01-2119983786-15-0000	207-727-4	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	-	-	-
Eucalyptol 470-82-6	0.025 - <0.25%	01-2119967772-24-0000	207-431-5	Flam. Liq. 3 (H226) Skin Sens. 1B (H317)	-	-	-
Citronellol 106-22-9	0.025 - <0.25%	01-2119453995-23-0000	203-375-0	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
3-(p-methoxyphenyl	0.025 -	01-2120629103-67-00	226-749-5	Skin Sens. 1B (H317)	-	-	-

)2-methylpropional dehyde 5462-06-6	<0.25%	00					
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one 23726-93-4	<0.025%	01-2120105798-49-00 00	245-844-2	Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315) Skin Sens. 1A (H317)	-	-	-

Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Polyethylene 9002-88-4	8000	-	-	-	-
2,6-dimethylheptan-2-ol 13254-34-7	6800	-	-	-	-
hexyl cinnamic aldehyde 101-86-0	3100	3000	-	-	-
Coumarin 91-64-5	293	293	0.5	-	-
Geraniol 106-24-1	3600	-	-	-	-
Benzyl salicylate 118-58-1	2227	-	-	-	-
Nerol 106-25-2	4500	-	-	-	-
Linalyl acetate 115-95-7	14550	-	-	-	-
Linalool 78-70-6	2790	5610	-	-	-
Eucalyptol 470-82-6	2480	-	-	-	-
Citronellol 106-22-9	3450	2650	-	-	-

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.

#### Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

<b>Skin contact</b>	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

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

<b>Symptoms</b>	Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.
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#### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
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<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
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#### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	Product is or contains a sensitizer. May cause sensitization by skin contact.
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<b>Hazardous combustion products</b>	Thermal decomposition can lead to release of irritating gases and vapors.
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#### **5.3. Advice for firefighters**

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
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<b>For emergency responders</b>	Use personal protection recommended in Section 8.
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#### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Prevent product from entering drains. See Section 12 for additional Ecological Information.
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#### **6.3. Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
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**Methods for cleaning up** Use personal protective equipment as required. Do not touch or walk through spilled material. Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Wash thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Storage class (TRGS 510)** Storage class 11.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Polyethylene 9002-88-4	-	-	-	TWA: 10.0 mg/m <sup>3</sup>	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Polyethylene 9002-88-4	-	TWA: 5 mg/m <sup>3</sup>	-	-	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Geraniol 106-24-1	-	-	skin sensitizer	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Polyethylene 9002-88-4	-	-	-	TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

**Biological occupational exposure** This product, as supplied, does not contain any hazardous materials with biological limits

limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
2,6-dimethylheptan-2-ol 13254-34-7	-	1.14 mg/kg bw/day [4] [6] 4.56 mg/kg bw/day [4] [7] 2.85 mg/cm <sup>2</sup> [5] [6] 11.4 mg/cm <sup>2</sup> [5] [7]	4.02 mg/m <sup>3</sup> [4] [6] 16.08 mg/m <sup>3</sup> [4] [7] 10.05 mg/m <sup>3</sup> [5] [6] 40.2 mg/m <sup>3</sup> [5] [7]
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate 4707-47-5	-	2500 µg/cm <sup>2</sup> [5] [6]	-
Coumarin 91-64-5	-	0.79 mg/kg bw/day [4] [6]	6.78 mg/m <sup>3</sup> [4] [6]
3,7-dimethyloctan-3-ol 78-69-3	-	3.16 mg/kg bw/day [4] [6] 190 µg/cm <sup>2</sup> [5] [6]	11.14 mg/m <sup>3</sup> [4] [6]
Geraniol 106-24-1	-	12.5 mg/kg bw/day [4] [6] 11800 µg/cm <sup>2</sup> [5] [6]	161.6 mg/m <sup>3</sup> [4] [6]
Benzyl salicylate 118-58-1	-	2.21 mg/kg bw/day [4] [6]	7.8 mg/m <sup>3</sup> [4] [6]
Nerol 106-25-2	-	1.25 mg/kg bw/day [4] [6]	4.4 mg/m <sup>3</sup> [4] [6]
Linalyl acetate 115-95-7	-	2.5 mg/kg bw/day [4] [6] 236.2 µg/cm <sup>2</sup> [5] [6] 236.2 µg/cm <sup>2</sup> [5] [7]	2.75 mg/m <sup>3</sup> [4] [6]
Linalool 78-70-6	-	2.5 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7] 3 mg/cm <sup>2</sup> [5] [6] 3 mg/cm <sup>2</sup> [5] [7]	2.8 mg/m <sup>3</sup> [4] [6] 16.5 mg/m <sup>3</sup> [4] [7]
Eucalyptol 470-82-6	-	2 mg/kg bw/day [4] [6]	7.05 mg/m <sup>3</sup> [4] [6]
Citronellol 106-22-9	-	327.4 mg/kg bw/day [4] [6] 2950 µg/cm <sup>2</sup> [5] [7]	161.6 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6] 10 mg/m <sup>3</sup> [5] [7]
3-(p-methoxyphenyl)-2-methylpropionaldehyde 5462-06-6	-	1.8 mg/kg bw/day [4] [6] 3992.3 µg/cm <sup>2</sup> [5] [6]	6.35 mg/m <sup>3</sup> [4] [6]
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one 23726-93-4	-	0.77 mg/kg bw/day [4] [6]	2.71 mg/m <sup>3</sup> [4] [6]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

[7] Short term.

#### Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
2,6-dimethylheptan-2-ol 13254-34-7	0.57 mg/kg bw/day [4] [6] 2.28 mg/kg bw/day [4] [7]	1.43 mg/cm <sup>2</sup> [5] [6] 5.7 mg/cm <sup>2</sup> [5] [7]	0.99 mg/m <sup>3</sup> [4] [6] 3.97 mg/m <sup>3</sup> [4] [7] 2.48 mg/m <sup>3</sup> [5] [6] 9.91 mg/m <sup>3</sup> [5] [7]
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	-	1250 µg/cm <sup>2</sup> [5] [6]	-

Chemical name	Oral	Dermal	Inhalation
4707-47-5			
Coumarin 91-64-5	0.39 mg/kg bw/day [4] [6]	-	1.69 mg/m <sup>3</sup> [4] [6]
3,7-dimethyloctan-3-ol 78-69-3	1.58 mg/kg bw/day [4] [6]	190 µg/cm <sup>2</sup> [5] [6]	2.75 mg/m <sup>3</sup> [4] [6]
Geraniol 106-24-1	13.75 mg/kg bw/day [4] [6]	11800 µg/cm <sup>2</sup> [5] [6]	47.8 mg/m <sup>3</sup> [4] [6]
Benzyl salicylate 118-58-1	0.79 mg/kg bw/day [4] [6]	-	1.37 mg/m <sup>3</sup> [4] [6]
Nerol 106-25-2	0.62 mg/kg bw/day [4] [6]	-	1.09 mg/m <sup>3</sup> [4] [6]
Linalyl acetate 115-95-7	0.2 mg/kg bw/day [4] [6]	236.2 µg/cm <sup>2</sup> [5] [6] 236.2 µg/cm <sup>2</sup> [5] [7]	0.68 mg/m <sup>3</sup> [4] [6]
Linalool 78-70-6	0.2 mg/kg bw/day [4] [6] 1.2 mg/kg bw/day [4] [7]	2.5 mg/kg bw/day [4] [6] 2.5 mg/kg bw/day [4] [7] 1.5 mg/cm <sup>2</sup> [5] [6] 1.5 mg/cm <sup>2</sup> [5] [7]	0.7 mg/m <sup>3</sup> [4] [6] 4.1 mg/m <sup>3</sup> [4] [7]
Eucalyptol 470-82-6	600 mg/kg bw/day [4] [6]	-	1.74 mg/m <sup>3</sup> [4] [6]
Citronellol 106-22-9	13.8 mg/kg bw/day [4] [6]	2950 µg/cm <sup>2</sup> [5] [7]	47.8 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6] 10 mg/m <sup>3</sup> [5] [7]
3-(p-methoxyphenyl)-2-methylpropionaldehyde 5462-06-6	1.08 mg/kg bw/day [4] [6]	3992.3 µg/cm <sup>2</sup> [5] [6]	1.88 mg/m <sup>3</sup> [4] [6]
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one 23726-93-4	0.38 mg/kg bw/day [4] [6]	-	0.67 mg/m <sup>3</sup> [4] [6]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

[7] Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
2,6-dimethylheptan-2-ol 13254-34-7	0.02377 mg/L	0.2377 mg/L	0.00238 mg/L	0.2377 mg/L	-
Methyl 2,4-dihydroxy-3,6-dimethyl benzoate 4707-47-5	3.3 µg/L	-	0.33 µg/L	-	-
Coumarin 91-64-5	19 µg/L	14.2 µg/L	1.9 µg/L	-	-
3,7-dimethyloctan-3-ol 78-69-3	0.0089 mg/L	0.089 mg/L	0.00089 mg/L	-	-
Geraniol 106-24-1	0.0108 mg/L	0.108 mg/L	0.00108 mg/L	-	-
Benzyl salicylate 118-58-1	0.00103 mg/L	0.0103 mg/L	0.000103 mg/L	-	-
Nerol 106-25-2	7.45 µg/L	74.5 µg/L	0.745 µg/L	-	-



Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Linalyl acetate 115-95-7	0.011 mg/L	0.11 mg/L	0.0011 mg/L	-	-
Linalool 78-70-6	0.2 mg/L	2 mg/L	0.02 mg/L	-	-
Eucalyptol 470-82-6	57 µg/L	0.57 mg/L	5.7 µg/L	-	-
Citronellol 106-22-9	0.0024 mg/L	0.024 mg/L	0.00024 mg/L	-	-
3-(p-methoxyphenyl)-2-methylpropionaldehyde 5462-06-6	5.2 µg/L	-	0.52 µg/L	-	-
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one 23726-93-4	1.09 µg/L	10.9 µg/L	0.11 µg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2,6-dimethylheptan-2-ol 13254-34-7	0.89 mg/kg sediment dw	0.089 mg/kg sediment dw	8 mg/L	0.177 mg/kg soil dw	-
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate 4707-47-5	89 µg/kg sediment dw	8.9 µg/kg sediment dw	10 mg/L	16 µg/kg soil dw	-
Coumarin 91-64-5	0.15 mg/kg sediment dw	0.015 mg/kg sediment dw	6.4 mg/L	0.018 mg/kg soil dw	30.7 mg/kg food
3,7-dimethyloctan-3-ol 78-69-3	0.0821 mg/kg sediment dw	0.00821 mg/kg sediment dw	450 mg/L	0.0112 mg/kg soil dw	-
Geraniol 106-24-1	0.115 mg/kg sediment dw	0.0115 mg/kg sediment dw	0.7 mg/L	0.0167 mg/kg soil dw	-
Benzyl salicylate 118-58-1	0.583 mg/kg sediment dw	0.0583 mg/kg sediment dw	10 mg/L	1.41 mg/kg soil dw	52.7 mg/kg food
Nerol 106-25-2	133 µg/kg sediment dw	13.3 µg/kg sediment dw	12.9 mg/L	22.3 µg/kg soil dw	-
Linalyl acetate 115-95-7	0.609 mg/kg sediment dw	0.0609 mg/kg sediment dw	1 mg/L	0.115 mg/kg soil dw	-
Linalool 78-70-6	2.22 mg/kg sediment dw	0.222 mg/kg sediment dw	10 mg/L	0.327 mg/kg soil dw	7.8 mg/kg food
Eucalyptol 470-82-6	1.425 mg/kg sediment dw	0.1425 mg/kg sediment dw	10 mg/L	0.25 mg/kg soil dw	40 mg/kg food
Citronellol 106-22-9	0.0256 mg/kg sediment dw	0.00256 mg/kg sediment dw	580 mg/L	0.00371 mg/kg soil dw	-
3-(p-methoxyphenyl)-2-methylpropionaldehyde 5462-06-6	0.104 mg/kg sediment dw	10.4 µg/kg sediment dw	3 mg/L	17.8 µg/kg soil dw	-
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one 23726-93-4	0.087 mg/kg sediment dw	8.67 µg/kg sediment dw	3.2 mg/L	0.017 mg/kg soil dw	6.67 mg/kg food

## 8.2. Exposure controls

<b>Engineering controls</b>	Eyewash stations. Showers. Ventilation systems. Apply technical measures to comply with the occupational exposure limits.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.
<b>Hand protection</b>	Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Wash thoroughly after handling.
<b>Environmental exposure controls</b>	Keep container closed when not in use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	solid
<b>Color</b>	No information available
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	No data available

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting point / freezing point</b>		No data available
<b>Initial boiling point and boiling range</b>		No data available
<b>Flammability</b>		No data available
<b>Flammability Limit in Air</b>		No data available
<b>Upper flammability or explosive limits</b>		No data available
<b>Lower flammability or explosive limits</b>		No data available
<b>Flash point</b>		No data available
<b>Autoignition temperature</b>		No data available
<b>Decomposition temperature</b>		No data available
<b>pH</b>		No data available
<b>pH (as aqueous solution)</b>		No data available
<b>Kinematic viscosity</b>		No data available
<b>Dynamic viscosity</b>		No data available
<b>Water solubility</b>		No data available
<b>Solubility(ies)</b>		No data available
<b>Partition coefficient</b>		No data available
<b>Vapor pressure</b>		No data available
<b>Relative density</b>		No data available
<b>Bulk density</b>		No data available
<b>Liquid Density</b>		No data available

Relative vapor density	No data available
Particle characteristics	
Particle Size	No data available
Particle Size Distribution	No data available

## **9.2. Other information**

### **9.2.1. Information with regard to physical hazard classes**

Not applicable

### **9.2.2. Other safety characteristics**

No information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

**Reactivity** None under normal use conditions.

### **10.2. Chemical stability**

**Stability** Stable under normal conditions.

#### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### **10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

### **10.4. Conditions to avoid**

**Conditions to avoid** Excessive heat.

### **10.5. Incompatible materials**

**Incompatible materials** None known.

### **10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

## **SECTION 11: Toxicological information**

### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Information on likely routes of exposure**

##### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).

**Ingestion**

Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms**

Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	12,838.70 mg/kg
ATEmix (dermal)	39,863.90 mg/kg
ATEmix (inhalation-gas)	95,238.10 ppm
ATEmix (inhalation-dust/mist)	68.20 mg/l
ATEmix (inhalation-vapor)	408.20 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene	> 8 g/kg ( Rat )	-	-
2,6-dimethylheptan-2-ol	= 6800 mg/kg ( Rat )	-	-
Methyl 2,4-dihydroxy-3,6-dimethylbenz oate	-	> 5000 mg/kg ( Rat )	-
hexyl cinnamic aldehyde	= 3100 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	> 5 mg/L ( Rat ) 4 h
Coumarin	> 5000 mg/kg ( Rat )	= 293 mg/kg ( Rat )	-
3,7-dimethyloctan-3-ol	> 5 g/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Geraniol	= 3600 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Benzyl salicylate	= 2227 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Nerol	= 4500 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Linalyl acetate	= 14550 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Linalool	= 2790 mg/kg ( Rat )	= 5610 mg/kg ( Rabbit )	-
Eucalyptol	= 2480 mg/kg ( Rat )	-	-
Citronellol	= 3450 mg/kg ( Rat )	= 2650 mg/kg ( Rabbit )	-
3-(p-methoxyphenyl)-2-methylpr opionaldehyde	-	> 5000 mg/kg ( Rabbit )	-
(E)-1-(2,6,6-trimethyl-1,3-cycloh exadien-1-yl)-2-buten-1-one	-	> 1000 mg/kg ( Rabbit )	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

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

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

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2,6-dimethylheptan-2-ol	EC50: =8.38mg/L (72h, <i>Desmodesmus subspicatus</i> ) EC50: =9.31mg/L (96h, <i>Desmodesmus subspicatus</i> ) EC50: =2.7mg/L (96h, <i>Pseudokirchneriella subcapitata</i> ) EC50: =6.2mg/L (96h, <i>Desmodesmus subspicatus</i> )	LC50: =5.77mg/L (96h, <i>Pimephales promelas</i> ) LC50: =1.04mg/L (96h, <i>Pimephales promelas</i> ) LC50: =5.7mg/L (96h, <i>Pimephales promelas</i> ) LC50: =1.8mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 4.78 - 8.85mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 3.6 - 5.1mg/L (96h, <i>Lepomis macrochirus</i> )	-	EC50: =17.1mg/L (48h, <i>Daphnia magna</i> ) EC50: =3mg/L (48h, <i>Daphnia magna</i> ) EC50: =320mg/L (48h, <i>Daphnia magna</i> ) EC50: =8.5mg/L (48h, <i>Daphnia magna</i> ) EC50: 4.78 - 8.87mg/L (48h, <i>Daphnia magna</i> )
3,7-dimethyloctan-3-ol	EC50: =19mg/L (72h,	LC50: =8.9mg/L (96h,	-	EC50: =3mg/L (48h,

	Desmodesmus subspicatus) EC50: =2.7mg/L (96h, Pseudokirchneriella subcapitata) EC50: =6.2mg/L (96h, Desmodesmus subspicatus)	Danio rerio)		Daphnia magna) EC50: =320mg/L (48h, Daphnia magna) EC50: =8.5mg/L (48h, Daphnia magna) EC50: 4.78 - 8.87mg/L (48h, Daphnia magna) LC50: =6.2mg/L (48h, Daphnia magna)
Geraniol	-	LC50: =22mg/L (96h, Danio rerio)	-	-
Benzyl salicylate	-	LC50: =1.03mg/L (96h, Danio rerio)	-	-
Nerol	-	LC50: =20.3mg/L (96h, Danio rerio)	-	-
Linalyl acetate	-	LC50: =11mg/L (96h, Cyprinus carpio)	-	-
Linalool	EC50: =88.3mg/L (96h, Desmodesmus subspicatus)	LC50: =27.8mg/L (96h, Oncorhynchus mykiss)	-	EC50: =20mg/L (48h, Daphnia magna)
Eucalyptol	-	LC50: 95.4 - 109mg/L (96h, Pimephales promelas)	-	-
Citronellol	-	-	-	EC50: =17mg/L (48h, Daphnia magna)

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential****Bioaccumulation****Component Information**

Chemical name	Partition coefficient
Isocyclemone E	5.7
2,6-dimethylheptan-2-ol	3
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	2.6
3,7-dimethyloctan-3-ol	3.3
Geraniol	2.6
Benzyl salicylate	4
Nerol	2.76
Linalyl acetate	3.9
Linalool	2.9
Isomenthone	3.05
Eucalyptol	3.4
Citronellol	3.41
3-(p-methoxyphenyl)-2-methylpropionaldehyde	2.5
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	3.4

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
2,6-dimethylheptan-2-ol	The substance is not PBT / vPvB
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	The substance is not PBT / vPvB
Coumarin	The substance is not PBT / vPvB
3,7-dimethyloctan-3-ol	The substance is not PBT / vPvB
Geraniol	The substance is not PBT / vPvB
Benzyl salicylate	The substance is not PBT / vPvB
Nerol	The substance is not PBT / vPvB
Linalyl acetate	The substance is not PBT / vPvB
Linalool	The substance is not PBT / vPvB
Eucalyptol	The substance is not PBT / vPvB
Citronellol	The substance is not PBT / vPvB
3-(p-methoxyphenyl)-2-methylpropionaldehyde	The substance is not PBT / vPvB
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.
<b>Waste codes / waste designations according to EWC</b>	According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information****IATA**

<b>14.1 UN number or ID number</b>	UN3077
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin), 9, III
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	A97, A158, A179, A197, A215
<b>ERG Code</b>	9L

**IMDG**

<b>14.1 UN number or ID number</b>	UN3077
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)
<b>14.3 Transport hazard class(es)</b>	9

<b>14.4 Packing group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin), 9, III, Marine pollutant
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 966, 967, 969
<b>EmS-No</b>	F-A, S-F
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**RID**

<b>14.1 UN number or ID number</b>	UN3077
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin), 9, III
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601
<b>Classification code</b>	M7

**ADR**

<b>14.1 UN number or ID number</b>	UN3077
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin), 9, III, (-)
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 601, 375
<b>Classification code</b>	M7
<b>Tunnel restriction code</b>	(-)

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
Polyethylene 9002-88-4	RG 66

**Germany**

**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**



This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Geraniol - 106-24-1	75.	-
Benzyl salicylate - 118-58-1	75.	-
Linalool - 78-70-6	75.	-

#### Persistent Organic Pollutants

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Geraniol - 106-24-1	Plant protection agent
Eucalyptol - 470-82-6	Plant protection agent

#### Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Geraniol - 106-24-1	Product-type 18: Insecticides, acaricides and products to control other arthropods Product-type 19: Repellents and attractants

#### International Inventories

Contact supplier for inventory compliance status

#### 15.2. Chemical safety assessment

##### Chemical Safety Report

No information available

## SECTION 16: Other information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapor

H301 - Toxic if swallowed

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

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

### Legend

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

### Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Skin designation

+ Sensitizers

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

### Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

World Health Organization

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**Further information** This safety data sheet was created pursuant to the requirements of: Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**Disclaimer**

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**End of Safety Data Sheet**