

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 03-01-2023 Revision Number 2

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

1.1. Product identifier

Product Name AXE REFILL STICKS FOR ALUMINIUM VENT AIR FRESHENER - AFRICA

Product Code(s) 71064

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

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)

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	Verona – Tel: 800011858 (Azienda Ospedaliera Integrata Verona)				
Netherlands Nationaal Vergiftigingen Informatie Centrum. Tel 030 274 88 88 (Uitsluitend be					
	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)				

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

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

3-(p-methoxyphenyl)-2-methylpropionaldehyde, Nerol, (E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one





Signal word Warning

Hazard statements

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

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.

Exemptions from CLP Article 17 [Article 29(2)]

CLP Annex I - 1.5.2.1. Labelling of packages where the contents do not exceed 125 ml. The following are not required for labelling:. H315. H319. H411.

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.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Perlite 130885-09-5	25 - <50%	-	-	[C]	-	-	-
Isocyclemone E	5 - <10%	01-2119489989-04-00	259-174-3	Aquatic Acute 1 (H400)	-	1	1
54464-57-2		00		Aquatic Chronic 1			
				(H410) Skin Irrit. 2 (H315)			
				Skin Sens. 1 (H317)			
2.6-dimethylheptan-	5 - <10%	01-2120275178-48-00	236-244-1	Eye Irrit. 2 (H319)	-	_	_
2-ol		00		Skin Irrit. 2 (H315)			
13254-34-7							
Methyl		01-2120762759-36-00	225-193-0	Skin Sens. 1B (H317)	-	-	-
2,4-dihydroxy-3,6-di		00					
methylbenzoate							
4707-47-5 hexyl cinnamic	1 - <2 5%	01-2119533092-50-00	202-983-3	Skin Sens. 1 (H317)	_	_	_
aldehyde	1 - \2.576	00	202-903-3	Skiii Selis. 1 (11317)	_	_	_
101-86-0							
ethyl vanillin	1 - <2.5%	01-2119958961-24-00	204-464-7	Eye Irrit. 2 (H319)	-	-	-
121-32-4		00		·			
Coumarin	1 - <2.5%	01-2119949300-45-00	202-086-7	Acute Tox. 3 (H301)	-	-	-
91-64-5		00		Acute Tox. 3 (H311)			
				Acute Tox. 3 (H331) Aquatic Chronic 2			
				(H411)			
				Skin Sens. 1 (H317)			
3,7-dimethyloctan-3-	1 - <2.5%	01-2119454788-21-00	201-133-9	Eye Irrit. 2 (H319)	-	-	-
ol		00		Skin Irrit. 2 (H315)			
78-69-3	4 0 50/	04 0400740707 47 00	004.000.4	Skin Sens. 1B (H317)			
	1 - <2.5%	01-2120746527-47-00 00	224-623-4	Eye Dam. 1 (H318)	-	-	-
zopyran-2-one 4430-31-3		00					
Geraniol	1 - <2.5%	01-2119552430-49-00	203-377-1	Eye Dam. 1 (H318)	_	-	_
106-24-1		00		Skin Irrit. 2 (H315)			
				Skin Sens. 1 (H317)			
Benzyl salicylate 118-58-1	0.5 - <1%	01-2119969442-31-00 00	204-262-9	Aquatic Chronic 3 (H412)	-	-	-
				Eye Irrit. 2 (H319)			
				Skin Sens. 1B (H317)			
Nerol	0.1 -	01-2119983244-33-00	203-378-7	Eye Irrit. 2 (H319)	-	-	-
106-25-2	<0.5%	00		Skin Irrit. 2 (H315)			
Linalyl acetate	0.1 -	01-2119454789-19-00	204-116-4	Skin Sens. 1B (H317) Eye Irrit. 2 (H319)			
115-95-7	<0.1 -	00	20 4 -110-4	Skin Irrit. 2 (H315)	-	-	_
	10.070			Skin Sens. 1B (H317)			
Linalool	0.1 -	01-2119474016-42-00	201-134-4	Eye Irrit. 2 (H319)	-	-	-
78-70-6	<0.5%	00		Skin Irrit. 2 (H315)			

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				Skin Sens. 1B (H317)			
Isomenthone	0.1 -	01-2119983786-15-00	207-727-4	Skin Irrit. 2 (H315)	-	-	-
491-07-6	<0.5%	00		Skin Sens. 1 (H317)			
Eucalyptol	0.1 -	01-2119967772-24-00	207-431-5	Flam. Liq. 3 (H226)	-	-	-
470-82-6	<0.5%	00		Skin Sens. 1B (H317)			
Citronellol	0.1 -	01-2119453995-23-00	203-375-0	Eye Irrit. 2 (H319)	-	-	-
106-22-9	<0.5%	00		Skin Irrit. 2 (H315)			
				Skin Sens. 1B (H317)			
3-(p-methoxyphenyl	0.1 -	01-2120629103-67-00	226-749-5	Skin Sens. 1B (H317)	-	-	-
)-2-methylpropional	<0.5%	00					
dehyde							
5462-06-6							
(E)-1-(2,6,6-trimethy	0.025 -	01-2120105798-49-00	245-844-2	Aquatic Chronic 2	-	-	-
I-1,3-cyclohexadien-	<0.1%	00		(H411)			
1-yl)-2-buten-1-one				Skin Irrit. 2 (H315)			
23726-93-4				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
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	-	-
Octahydro-2H-1-benzopy ran-2-one 4430-31-3	3300	3500	-	-	-
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 >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes
[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

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 to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a

physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

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

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO2, alcohol-resistant foam or water spray. Use extinguishing measures that

are appropriate to local circumstances and the surrounding environment.

Large FireCAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions 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.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

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 Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

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

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Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Geraniol	-	-	skin sensitizer	-	-
106-24-1					
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Perlite				TWA: 4 mg/m ³	
i Gilito		<u>-</u>	-	1 VV \(\tau_1 \) + 111\(\text{y} \) 111'	- I

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological 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/cm2 [5] [6] 11.4 mg/cm2 [5] [7]	4.02 mg/m³ [4] [6] 16.08 mg/m³ [4] [7] 10.05 mg/m³ [5] [6] 40.2 mg/m³ [5] [7]
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate 4707-47-5	-	2500 μg/cm2 [5] [6]	-
ethyl vanillin 121-32-4	-	7 mg/kg bw/day [4] [6]	49 mg/m³ [4] [6] 98 mg/m³ [4] [7]
Coumarin 91-64-5	-	0.79 mg/kg bw/day [4] [6]	6.78 mg/m³ [4] [6]
3,7-dimethyloctan-3-ol 78-69-3	-	3.16 mg/kg bw/day [4] [6] 190 µg/cm2 [5] [6]	11.14 mg/m³ [4] [6]
Octahydro-2H-1-benzopyran-2-one 4430-31-3	-	1.8 mg/kg bw/day [4] [6]	6.3 mg/m³ [4] [6]
Geraniol 106-24-1	-	12.5 mg/kg bw/day [4] [6] 11800 µg/cm2 [5] [6]	161.6 mg/m³ [4] [6]
Benzyl salicylate 118-58-1	-	2.21 mg/kg bw/day [4] [6]	7.8 mg/m³ [4] [6]
Nerol 106-25-2	-	1.25 mg/kg bw/day [4] [6]	4.4 mg/m³ [4] [6]
Linalyl acetate 115-95-7	-	2.5 mg/kg bw/day [4] [6] 236.2 µg/cm2 [5] [6] 236.2 µg/cm2 [5] [7]	2.75 mg/m³ [4] [6]
Linalool 78-70-6	-	2.5 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7] 3 mg/cm2 [5] [6] 3 mg/cm2 [5] [7]	2.8 mg/m³ [4] [6] 16.5 mg/m³ [4] [7]
Eucalyptol 470-82-6	-	2 mg/kg bw/day [4] [6]	7.05 mg/m³ [4] [6]
Citronellol 106-22-9	-	327.4 mg/kg bw/day [4] [6] 2950 μg/cm2 [5] [7]	161.6 mg/m³ [4] [6] 10 mg/m³ [5] [6] 10 mg/m³ [5] [7]
3-(p-methoxyphenyl)-2-methylpropiona Idehyde 5462-06-6	-	1.8 mg/kg bw/day [4] [6] 3992.3 μg/cm2 [5] [6]	6.35 mg/m³ [4] [6]
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadie n-1-yl)-2-buten-1-one 23726-93-4	-	0.77 mg/kg bw/day [4] [6]	2.71 mg/m³ [4] [6]

^[4] Systemic health effects.

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^[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/cm2 [5] [6] 5.7 mg/cm2 [5] [7]	0.99 mg/m³ [4] [6] 3.97 mg/m³ [4] [7] 2.48 mg/m³ [5] [6] 9.91 mg/m³ [5] [7]
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate 4707-47-5	-	1250 μg/cm2 [5] [6]	-
ethyl vanillin 121-32-4	2.5 mg/kg bw/day [4] [6]	-	8.75 mg/m³ [4] [6] 17.5 mg/m³ [4] [7]
Coumarin 91-64-5	0.39 mg/kg bw/day [4] [6]	-	1.69 mg/m³ [4] [6]
3,7-dimethyloctan-3-ol 78-69-3	1.58 mg/kg bw/day [4] [6]	190 μg/cm2 [5] [6]	2.75 mg/m³ [4] [6]
Octahydro-2H-1-benzopyran-2-one 4430-31-3	1.1 mg/kg bw/day [4] [6]	-	1.9 mg/m³ [4] [6]
Geraniol 106-24-1	13.75 mg/kg bw/day [4] [6]	11800 µg/cm2 [5] [6]	47.8 mg/m³ [4] [6]
Benzyl salicylate 118-58-1	0.79 mg/kg bw/day [4] [6]	-	1.37 mg/m³ [4] [6]
Nerol 106-25-2	0.62 mg/kg bw/day [4] [6]	-	1.09 mg/m³ [4] [6]
Linalyl acetate 115-95-7	0.2 mg/kg bw/day [4] [6]	236.2 µg/cm2 [5] [6] 236.2 µg/cm2 [5] [7]	0.68 mg/m³ [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/cm2 [5] [6] 1.5 mg/cm2 [5] [7]	0.7 mg/m³ [4] [6] 4.1 mg/m³ [4] [7]
Eucalyptol 470-82-6	600 mg/kg bw/day [4] [6]	-	1.74 mg/m³ [4] [6]
Citronellol 106-22-9	13.8 mg/kg bw/day [4] [6]	2950 μg/cm2 [5] [7]	47.8 mg/m³ [4] [6] 10 mg/m³ [5] [6] 10 mg/m³ [5] [7]
3-(p-methoxyphenyl)-2-methylpropiona Idehyde 5462-06-6	1.08 mg/kg bw/day [4] [6]	3992.3 μg/cm2 [5] [6]	1.88 mg/m³ [4] [6]
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadie n-1-yl)-2-buten-1-one 23726-93-4	0.38 mg/kg bw/day [4] [6]	-	0.67 mg/m³ [4] [6]

^[4] Systemic health effects.

[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	-

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^[5] Local health effects.

^[6] Long term.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Methyl 2,4-dihydroxy-3,6-dimethyl benzoate 4707-47-5	3.3 µg/L	-	0.33 μg/L	-	-
ethyl vanillin 121-32-4	0.118 mg/L	-	0.0118 mg/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	-	-
Octahydro-2H-1-benzopyr an-2-one 4430-31-3	38 μg/L	-	3.8 µg/L	380 µg/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	-	-
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-me thylpropionaldehyde 5462-06-6	5.2 μg/L	-	0.52 μg/L	-	-
(E)-1-(2,6,6-trimethyl-1,3-c yclohexadien-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-dimethyl benzoate 4707-47-5	89 µg/kg sediment dw	8.9 µg/kg sediment dw	10 mg/L	16 μg/kg soil dw	-
ethyl vanillin 121-32-4	15 mg/kg sediment dw	1.5 mg/kg sediment dw	10 mg/L	2.923 mg/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	-
Octahydro-2H-1-benzopyr an-2-one 4430-31-3	350 μg/kg sediment dw	35 μg/kg sediment dw	32 mg/L	48 μg/kg soil dw	-
Geraniol	0.115 mg/kg	0.0115 mg/kg	0.7 mg/L	0.0167 mg/kg soil	-

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Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
106-24-1	sediment dw	sediment dw		dw	
Benzyl salicylate	0.583 mg/kg	0.0583 mg/kg	10 mg/L	1.41 mg/kg soil dw	52.7 mg/kg food
118-58-1	sediment dw	sediment dw			
Nerol	133 µg/kg sediment	13.3 µg/kg sediment	12.9 mg/L	22.3 µg/kg soil dw	-
106-25-2	dw	dw			
Linalyl acetate	0.609 mg/kg	0.0609 mg/kg	1 mg/L	0.115 mg/kg soil dw	-
115-95-7	sediment dw	sediment dw			
Linalool	2.22 mg/kg	0.222 mg/kg	10 mg/L	0.327 mg/kg soil dw	7.8 mg/kg food
78-70-6	sediment dw	sediment dw			
Eucalyptol	1.425 mg/kg	0.1425 mg/kg	10 mg/L	0.25 mg/kg soil dw	40 mg/kg food
470-82-6	sediment dw	sediment dw			
Citronellol	0.0256 mg/kg	0.00256 mg/kg	580 mg/L	0.00371 mg/kg soil	-
106-22-9	sediment dw	sediment dw		dw	
3-(p-methoxyphenyl)-2-me	0.104 mg/kg	10.4 µg/kg sediment	3 mg/L	17.8 μg/kg soil dw	-
thylpropionaldehyde	sediment dw	dw			
5462-06-6					
(E)-1-(2,6,6-trimethyl-1,3-c	0.087 mg/kg	8.67 µg/kg sediment	3.2 mg/L	0.017 mg/kg soil dw	6.67 mg/kg food
yclohexadien-1-yl)-2-buten	sediment dw	dw			
-1-one					
23726-93-4					

8.2. Exposure controls

Engineering controls Eyewash stations. Showers. Ventilation systems. Apply technical measures to comply with

the occupational exposure limits.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to standard

EN 166.

Hand protection Wear suitable gloves. Impervious 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.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

Environmental exposure controls Keep container closed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid Appearance solid

Color No information available

Odor Characteristic

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Odor threshold No data available

 Property
 Values
 Remarks
 • Method

 Melting point / freezing point
 No data available

 Initial boiling point and boiling range
 No data available

 Flammability
 No data available

 Flammability I imit in Air
 No data available

Flammability Limit in Air

Upper flammability or explosive

No data available

No data available

limits

Lower flammability or explosive No data available

limits

Flash point
Autoignition temperature
Decomposition temperature
PH
No data available
No data available
No data available
PH
No data available
PH (as aqueous solution)
No data available
Kinematic viscosity
No data available
Dynamic viscosity
No data available
Water solubility
No data available

Dynamic viscosity Water solubility Solubility(ies) No data available Partition coefficient No data available Vapor pressure No data available Relative density No data available **Bulk density** No data available **Liquid Density** 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.

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10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

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. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

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). Causes skin irritation.

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

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

Based on available data, the classification criteria are not met

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

ATEmix (oral) 4,974.00 mg/kg
ATEmix (dermal) 12,179.80 mg/kg
ATEmix (inhalation-dust/mist) 23.50 mg/l
ATEmix (inhalation-vapor) 140.90 mg/l

Unknown acute toxicity Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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
ethyl vanillin	= 1590 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

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Coumarin	> 5000 mg/kg (Rat)	= 293 mg/kg (Rat)	-
3,7-dimethyloctan-3-ol	> 5 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Octahydro-2H-1-benzopyran-2- one	= 3300 mg/kg (Rat)	= 3500 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 Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

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 exposureBased 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

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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	Crustacea
Onomical name	rugaoraquano piamo	11011	microorganisms	Ordoladda
2,6-dimethylheptan-2-ol	EC50: =8.38mg/L (72h, Desmodesmus subspicatus) EC50: =9.31mg/L (96h, Desmodesmus subspicatus) EC50: =2.7mg/L (96h, Pseudokirchneriella subcapitata) EC50: =6.2mg/L (96h, Desmodesmus subspicatus)	LC50: =5.77mg/L (96h, Pimephales promelas) LC50: =1.04mg/L (96h, Pimephales promelas) LC50: =5.7mg/L (96h, Pimephales promelas) LC50: =1.8mg/L (96h, Oncorhynchus mykiss) LC50: 4.78 - 8.85mg/L (96h, Oncorhynchus mykiss) LC50: 3.6 - 5.1mg/L (96h, Lepomis macrochirus)	-	EC50: =17.1mg/L (48h, Daphnia magna) EC50: =3mg/L (48h, Daphnia magna) EC50: =320mg/L (48h, Daphnia magna) EC50: =8.5mg/L (48h, Daphnia magna) EC50: 4.78 - 8.87mg/L (48h, Daphnia magna)
ethyl vanillin	-	LC50: 81.4 - 94.3mg/L (96h, Pimephales promelas)	-	-
3,7-dimethyloctan-3-ol	EC50: =19mg/L (72h, Desmodesmus subspicatus) EC50: =2.7mg/L (96h, Pseudokirchneriella subcapitata) EC50: =6.2mg/L (96h, Desmodesmus subspicatus)	LC50: =8.9mg/L (96h, Danio rerio)	-	EC50: =3mg/L (48h, 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)

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12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

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
ethyl vanillin	1.61
3,7-dimethyloctan-3-ol	3.3
Octahydro-2H-1-benzopyran-2-one	1.4
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
ethyl vanillin	The substance is not PBT / vPvB
Coumarin	The substance is not PBT / vPvB
3,7-dimethyloctan-3-ol	The substance is not PBT / vPvB
Octahydro-2H-1-benzopyran-2-one	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.

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12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations

according to EWC

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

14.1 UN number or ID number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

Description

UN3077

Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)

Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)

Ш

UN3077, Environmentally hazardous substance, solid, n.o.s. (Isocyclemone E, Coumarin), 9,

Ш Yes

14.5 Environmental hazards 14.6 Special precautions for user

ERG Code

Special Provisions

A97, A158, A179, A197, A215

Ш

Yes

UN3077

IMDG

14.1 UN number or ID number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

Description

UN3077, Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin), 9.

14.5 Environmental hazards

14.6 Special precautions for user **Special Provisions**

EmS-No

274, 335, 966, 967, 969 F-A. S-F

III. Marine pollutant

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

14.1 UN number or ID number

14.2 UN proper shipping name 14.3 Transport hazard class(es)

14.4 Packing group

Description

UN3077

Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)

UN3077, Environmentally hazardous substance, solid, n.o.s. (Isocyclemone E, Coumarin), 9,

Ш Yes

14.5 Environmental hazards 14.6 Special precautions for user

Special Provisions Classification code 274, 335, 375, 601

M7

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ADR

14.1 UN number or ID number UN3077

14.2 UN proper shipping name Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin)

14.3 Transport hazard class(es) 9
14.4 Packing group ||||

Description UN3077, Environmentally hazardous substance, solid, n.o.s.(Isocyclemone E, Coumarin), 9,

III, (-)

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions

274, 335, 601, 375

Classification code M7
Tunnel restriction code (-)

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

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	Substance subject to authorization per
	Annex XVII	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

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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

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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

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