

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING *

1.1. Product identifier

Product name : WELLNESS AIROMATHERAPY BEADS AIR BEADS - LAVENDER
 Product code : 755558004634-LV
 UFI : 9H00-C0TV-Q002-1XJS

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

Application : SU21 Consumer product. PC3 Other air care products. Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : inSPAration Europe
 Industrieweg 8b
 5571 LJ Bergeijk, The Netherlands
 Telephone : +31 497 555562
 E-mail : info@insparation.com

Supplier : inSPAration Inc.
 11950 Hertz Ave.
 Moorpark, United States of America
 Telephone : +1-805.553.0820

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
 NL - Telephone : +31 497 555562 (During office hours only)

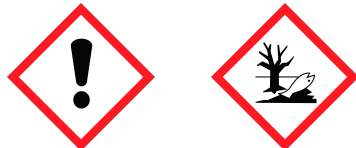
SECTION 2 HAZARDS IDENTIFICATION *

2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 2.
 Human health hazards : Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
 Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Combustible.
 Environmental hazards : Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (1272/2008/EC):
 Hazard pictograms :

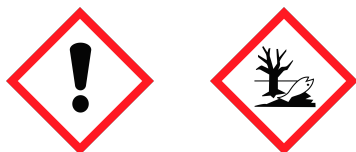


Signal word : Warning

H- and P-phrases : H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.
 P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.
P280 hands Wear protective gloves and eye protection.
eyes
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:
Hazard pictograms :



Signal word : Warning

H- and P-phrases : H317 May cause an allergic skin reaction.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 hands Wear protective gloves and eye protection.
eyes
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Linalool ; Linalyl acetate ; Cineole ; d-Limonene ; Citronellol ; Coumarin ; Eugenol ; Pin-2(3)-ene ; Caryophyllene ; Geranyl acetate ; Pin-2(10)-ene .

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Linalool	10 - < 20	78-70-6	201-134-4		
2-Phenylethanol	1 - < 5	60-12-8	200-456-2		
Linalyl acetate	1 - < 5	115-95-7	204-116-4		
Benzyl acetate	1 - < 5	140-11-4	205-399-7		
Cineole	1 - < 5	470-82-6	207-431-5		
d-Limonene	1 - < 5	5989-27-5	227-813-5		
Citronellol	1 - < 5	106-22-9	203-375-0		
2,6-Di-tert-butyl-p-cresol	1 - < 2,5	128-37-0	204-881-4		
Coumarin	1 - < 5	91-64-5	202-086-7		
Eugenol	0,1 - < 1	97-53-0	202-589-1		
Pin-2(3)-ene	0,1 - < 1	80-56-8	201-291-9		
p-Cymene	0,1 - < 1	99-87-6	202-796-7		
Caryophyllene	0,1 - < 1	87-44-5	201-746-1		
Geranyl acetate	0,1 - < 1	105-87-3	203-341-5		

Pin-2(10)-ene	0,1 - < 1	127-91-3	204-872-5		
Substance name	Hazard Class	H-phrases	Pictograms		
Linalool	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07		
2-Phenylethanol	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07		
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07		
Benzyl acetate	Aquatic Chronic 3	H412			
Cineole	Flam. Liq. 3; Skin Sens. 1B	H226; H317	GHS02; GHS07		
d-Limonene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 3	H226; H304; H315; H317; H400; H412	GHS02; GHS07; GHS08; GHS09	M (acute) = 1	
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07		
2,6-Di-tert-butyl-p-cresol	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1	
Coumarin	Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3	H302; H317; H412	GHS07		
Eugenol	Skin Sens. 1B; Eye Irrit. 2	H317; H319	GHS07		
Pin-2(3)-ene	Flam. Liq. 3; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H226; H302; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1 M (chronic) = 1	
p-Cymene	Flam. Liq. 3; Asp. Tox. 1; Repr. 2; Aquatic Chronic 2; Acute Tox. 3	H226; H304; H361; H411; H331	GHS02; GHS06; GHS08; GHS09		
Caryophyllene	Asp. Tox. 1; Skin Sens. 1; Aquatic Chronic 4	H304; H317; H413	GHS07; GHS08		
Geranyl acetate	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3	H315; H317; H412	GHS07		
Pin-2(10)-ene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H226; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1 M (chronic) = 1	

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

Inhalation : No specific effects and/or symptoms are known.
Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
Eye contact : Irritant. May cause redness and pain.
Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
Not suitable : Water jet. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.
Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.
 Recommended packaging : Keep only in the original container.
 Non recommended packaging : None known.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION *

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments	Source
Benzyl acetate	GB	5	-		MAC: LT
d-Limonene		28	80		MAC: DE, CH
2,6-Di-tert-butyl-p-cresol		10	-		
Pin-2(3)-ene		113	-		MAC: BE
p-Cymene		140	-		MAC: SV, ET, LT

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Linalool	Inhalation				24.58 mg/m ³
	Dermal	3 mg/kg bw		3 mg/kg bw/day	3.5 mg/kg bw/day
2-Phenylethanol	Inhalation				59,9 mg/m ³
	Dermal				21,2 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	2,5 mg/kg bw/day
	Inhalation				2,75 mg/m ³
Benzyl acetate	Inhalation				9 mg/m ³
	Dermal				2.5 mg/kg bw/day
Cineole	Inhalation				7,05 mg/m ³
	Dermal				2 mg/kg bw/day
d-Limonene	Inhalation				66,7 mg/m ³
	Dermal				9,5 mg/kg bw/day
Citronellol	Inhalation	10 mg/m ³		10 mg/m ³	161,6 mg/m ³
	Dermal	2,950 mg/kg bw			327,4 mg/kg bw/day

2,6-Di-tert-butyl-p-cresol	Inhalation Dermal				3,5 mg/m3 0,5 mg/kg bw/day
Coumarin	Dermal				0,79 mg/kg bw/day
Eugenol	Inhalation Dermal				6,78 mg/m3 21,2 mg/m3 6 mg/kg bw/day
Pin-2(3)-ene	Inhalation Dermal				3,8 mg/m3 0,542 mg/kg bw/day
p-Cymene	Inhalation Dermal				0,88 mg/m3 0,25 mg/kg bw/day
Geranyl acetate	Inhalation Dermal				62,59 mg/m3 35,5 mg/kg bw/day
Pin-2(10)-ene	Inhalation Dermal			0,054 mg/kg bw/day	5,69 mg/m3 0,8 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Linalool	Dermal	1.5 mg/kg bw		1.5 mg/kg bw/day	1.25 mg/kg bw/day
2-Phenylethanol	Inhalation				4.33 mg/m3
	Oral				2.49 mg/kg bw/day
Linalyl acetate	Inhalation				17,7 mg/m3
	Dermal				12,7 mg/kg bw/day
Benzyl acetate	Oral		5,1 mg/kg bw		5,1 mg/kg bw/day
	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	1,25 mg/kg bw/day
Cineole	Inhalation				0,68 mg/m3
	Oral				0,2 mg/kg bw/day
d-Limonene	Inhalation				2.2 mg/m3
	Dermal				1.3 mg/kg bw/day
Citronellol	Oral		6,25 mg/kg bw		1.3 mg/kg bw/day
	Inhalation				1,74 mg/m3
2,6-Di-tert-butyl-p-cresol	Dermal				1 mg/kg bw/day
	Oral				600 mg/kg bw/day
Coumarin	Inhalation				16,6 mg/m3
	Dermal				4,8 mg/kg bw/day
Eugenol	Oral				4,8 mg/kg bw/day
	Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3
Pin-2(3)-ene	Dermal	2,950 mg/kg bw			196,4 mg/kg bw/day
	Oral				13,8 mg/kg bw/day
Eugenol	Inhalation				0,86 mg/m3
	Dermal				0,25 mg/kg bw/day
Pin-2(3)-ene	Oral				0,25 mg/kg bw/day
	Dermal				0,39 mg/kg bw/day
Pin-2(3)-ene	Oral				0,39 mg/kg bw/day
	Inhalation				1,69 mg/m3
Pin-2(3)-ene	Inhalation				5,22 mg/m3
	Dermal				3 mg/kg bw/day
Pin-2(3)-ene	Oral				3 mg/kg bw/day
	Inhalation				0,674 mg/m3
Pin-2(3)-ene	Dermal				0,225 mg/kg bw/day
	Oral				0,225 mg/kg bw/day

p-Cymene	Oral Inhalation				0,125 mg/kg bw/day 0,22 mg/m ³
Geranyl acetate	Dermal Inhalation				0,125 mg/kg bw/day 15,4 mg/m ³
Pin-2(10)-ene	Dermal				17,75 mg/kg bw/day
	Oral				8,9 mg/kg bw/day
	Inhalation				1 mg/m ³
	Dermal			0,027 mg/kg bw/day	0,3 mg/kg bw/day
	Oral				0,3 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Linalool	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
	STP			10 mg/l
	Soil			0,327 mg/kg
2-Phenylethanol	Oral			7,8 mg/kg food
	Water	0,215 mg/l	0,0215 mg/l	
	Sediment	1,454 mg/kg	0,1454 mg/kg	
	Intermittent water			2,15 mg/l
	STP			10 mg/l
Linalyl acetate	Soil			0,164 mg/kg
	Water	0,011 mg/l	0,001 mg/l	
	Sediment	0,609 mg/kg	0,061 mg/kg	
	Intermittent water			0,11 mg/l
	STP			1 mg/l
Benzyl acetate	Soil			0,115 mg/kg
	Water	0,018 mg/l	0,002 mg/l	
	Sediment	0,526 mg/kg	0,053 mg/kg	
	Intermittent water			0,04 mg/l
	STP			8,55 mg/l
Cineole	Soil			0,094 mg/kg
	Water	0,057 mg/l	0,0057 mg/l	
	Sediment	1,425 mg/kg	0,1425 mg/kg	
	Intermittent water			0,57 mg/l
	STP			10 mg/l
d-Limonene	Soil			0,25 mg/kg
	Oral			40 mg/kg food
	Water	0,014 mg/l	0,0014 mg/l	
	Sediment	3,85 mg/kg	0,385 mg/kg	
	STP			1,8 mg/l
Citronellol	Soil			0,763 mg/kg
	Oral			133 mg/kg food
	Water	0,002 mg/l	0 mg/l	
	Sediment	0,026 mg/kg	0,003 mg/kg	
	Intermittent water			0,024 mg/l
2,6-Di-tert-butyl-p-cresol	STP			580 mg/l
	Soil			0,004 mg/kg
	Water	0,000199 mg/l	0,00002 mg/l	
	Sediment	0,0996 mg/kg	0,00996 mg/kg	
	STP			0,17 mg/l
Coumarin	Soil			0,04769 mg/kg
	Oral			8,33 mg/kg food
	Water	0,019 mg/l	0,0019 mg/l	

Eugenol	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water			0,0142 mg/l
	STP			6,4 mg/l
	Soil			0,018 mg/kg
	Oral			30,7 mg/kg food
Pin-2(3)-ene	Water	0.00113 mg/l	0.000113 mg/l	
	Sediment	0.081 mg/kg	0.008 mg/kg	
	Soil			0.015 mg/kg
p-Cymene	Water	0.000606 mg/l	0.000061 mg/l	
	Sediment	0,157 mg/kg	0,0157 mg/kg	
	STP			0,2 mg/l
	Soil			0,0317 mg/kg
	Oral			8,76 mg/kg food
Geranyl acetate	Water	0.004 mg/l	0 mg/l	
	Sediment	1.52 mg/kg	0.152 mg/kg	
	STP			10 mg/l
	Soil			0.302 mg/kg
	Water	0,00372 mg/l	0,000372 mg/l	
Pin-2(10)-ene	Sediment	0,442 mg/kg	0,442 mg/kg	
	Intermittent water			0,0372 mg/l
	STP			8 mg/l
	Soil			0,0859 mg/kg
	Water	0,001004 mg/l	0,0001 mg/l	
	Sediment	0,337 mg/kg	0,034 mg/kg	
	STP			3,26 mg/l
	Soil			0,067 mg/kg
	Oral			13,1 mg/kg food

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection** : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: laminated film. Indication of permeation breakthrough time: 6 hours.
- Respiratory protection** : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection** : Wear appropriate safety gloves in accordance with EN 374. Suitable material: laminated film. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
- Eye protection** : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	Impregnated material.
Colour	: Yellow.	
Odour	: Perfumed.	
Odour threshold	: Not known.	Not measured.
pH	: Not applicable.	Waterfree product.
Solubility in water	: Not soluble.	
Partition coefficient (n-octanol/water)	: Not known.	Not measured. Not relevant for mixtures.
Flash point	: 80,56 °C	
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 225 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: Not known.	
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,7 (Linalyl acetate) Upper explosion limit in air (%): 11,9 (2-Phenylethanol)
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: Not known.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: Not known.	
Relative vapour density	: > 1	(air = 1)
Relative density (20°C)	: 1 g/ml	
Particle characteristics	: Not applicable.	Liquid.

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

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

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 24 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. No specific effects and/or symptoms are known.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not classified - Based on available data, the classification criteria are not met.
Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Linalool	NOAEL (development, oral)	365 mg/kg bw/d	-----	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	LD50 (dermal)	5610 mg/kg bw	-----	Rabbit
	Skin irritation	Mildly irritant	-----	Human
	LD50 (oral)	2790 mg/kg bw	-----	Rat
	NOAEL (oral)	117 mg/kg bw/d	-----	Rat
	2-Phenylethanol	LD50 (oral)	1609 mg/kg bw	-----
NOAEL (dermal)		510 mg/kg bw/d	OECD 411	Rat
Genotoxicity - in vitro		Not genotoxic	OECD 476	

Linalyl acetate	NOAEL (development, oral)	4,3 mg/kg bw/d		Rat
	Eye irritation	Irritant	----	Rabbit
	Skin irritation	Slightly irritant	----	Rabbit
	LD50 (dermal)	2535 mg/kg bw	OECD 402	Rabbit
	Skin sensitisation - estimate	Not sensitizing		
	LC50 (inhalation)	> 4630 mg/m3		Rat
	NOAEL (developmental toxicity, dermal)	140 mg/kg bw/d		Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LC50 (inhalation) - estimate	> 5000 mg/m3		Rat
	Outdoor cleaners (excludes stone, concrete and similar surfaces)	1000 mg/kg bw/d	OECD 414	Rat
	LD50 (oral)	13934 mg/kg bw	----	Rat
	LC50 (inhalation)	> 2740 mg/m3	----	Mouse
	Skin irritation	Non-irritant	----	Human
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (oral)	160 mg/kg bw/d	OECD 407	Rat
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414	Rat	
LC50 (inhalation) - estimate	> 5000 mg/m3	----	Rat	
Cineole	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	LD50 (oral)	2480 mg/kg bw	----	Rat
	NOAEL (oral)	600 mg/kg bw/d	OECD 407	Rat
	Genotoxicity - in vitro	Not genotoxic		
	Mutagenicity	Not mutagenic		Salmonella typhimurium
	NOAEL (fertility, oral)	> 600 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Non-irritant		
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	
d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d	OECD 451	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	5500 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	600 mg/kg bw/d		Rat
	Skin irritation	Irritant	----	----
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit
	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat
	Genotoxicity - in vitro	Not genotoxic		
Citronellol	NOAEL (oral)	150 mg/kg bw/d		Rat
	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium

Coumarin	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw	-----	Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility, dermal)	300 mg/kg bw/d	OECD 421	Rat
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		Rabbit
	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	> 115 mg/kg bw/d		Mouse
	Eye irritation	Non-irritant		Rabbit
	LD50 (oral)	680 mg/kg bw	-----	Rat
	NOAEL (oral)	> 138,3 mg/kg bw/d		Mouse
	Skin irritation	Non-irritant		Rabbit
	Eugenol	Genotoxicity - in vitro	Not genotoxic	OECD 476
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
Genotoxicity - in vivo		> 105 mg/kg bw/d	OECD 474	Mouse
NOEL (carcinogenicity) - estimate		Not carcinogenic		
LD50 (oral)		> 2000 mg/kg bw	OECD 423	Rat
LC50 (inhalation)		> 2580 mg/m3	OECD 403	Rat
LC50 (inhalation) - estimate		> 5000 mg/m3		Rat
LD50 (dermal)		> 2000 mg/kg bw		Rat
NOEL (carcinogenicity, oral)		300 mg/kg bw/d	-----	Rat
Skin sensitisation		2703 ug/cm2	OECD 429	Mouse
NOAEL (oral)		600 mg/kg bw/d	OECD 408	Rat
Genotoxicity - in vitro		Genotoxic	OECD 476	Mouse
Genotoxicity - estimate		Not genotoxic		
Genotoxicity - in vivo		Genotoxic	OECD 474	Mouse
Mutagenicity		Not mutagenic	OECD 471	Salmonella typhimurium
NOAEL (fertility) - estimate	> 700 mg/kg.d	Read across	Rat	
Pin-2(3)-ene	NOAEL (development, oral)	250 mg/kg bw/d		Rabbit
	Skin sensitisation	Sensitizing.	-----	Guinea pig
	Skin irritation	Non-irritant	-----	Human
	NOAEL (fertility, oral)	749 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	-----	Rabbit
	Mutagenicity	Not mutagenic	-----	Salmonella typhimurium
	Eye irritation - estimate	Moderately irritant	Read across	Rabbit
	Genotoxicity - estimate	Not genotoxic	Read across	
	NOAEL (inhalation)	170 mg/m3	OECD 413	Rat
	NOAEL (oral) - estimate	800 mg/kg bw/d	Read across	
	LD50 (oral)	500 mg/kg bw	OECD 423	Rat
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
	LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	Skin sensitisation - estimate	Sensitizing.	Read across	Mouse
	Caryophyllene			
Geranyl acetate	Skin irritation	Moderately irritant		Guinea pig
	Skin sensitisation	Sensitizing.	-----	-----

Pin-2(10)-ene	NOEL (carcinogenicity) - estimate	> 2000 mg/kg.d	Read across	Rat
	NOAEL (dermal) - estimate	1000 mg/kg bw/d	Read across	Mouse
	LD50 (dermal)	> 5460 mg/kg bw		Rabbit
	LD50 (oral)	6330 mg/kg bw	-----	Rat
	Mutagenicity	Negative	OECD 471	-----
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	NOAEL (development) - estimate	250 mg/kg.d	Read across	
	Skin irritation	Irritant	-----	-----
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (oral)	> 5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit

11.2. Information on other hazards

Endocrine disrupting properties : Not applicable.
Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION *

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 12 mg/l. Calculated EC50 (waterflea): 8 mg/l.
Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Endocrine disrupting properties

Endocrine disrupting properties : Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
2,6-Di-tert-butyl-p-cresol	NOEC (waterflea) - acute	0,23 mg/l	OECD 202	Daphnia magna

	NOEC (waterflea) - chronic	0,316 mg/l.d	OECD 202	Daphnia magna
	IC50 (algae)	> 0,4 mg/l	OECD 201	Desmodesmus subspicatus
	EC50 (waterflea)	0,61 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	4,5 %	OECD 301 C	
	EC0 (waterflea)	0,31 mg/l	OECD 202	Daphnia magna
	LC50 (bacteria)	> 10000 mg/l	-----	-----
2,6-Di-tert-butyl-p-cresol	LC50 (fish)	> 5000 mg/l	OECD 203	Brachydanio rerio
2,6-Di-tert-butyl-p-cresol	Log P(ow)	5,1		
Pin-2(3)-ene	BCF	598,4		
	Ultimate aerobic biodegradation (%)	62 %	OECD 301 B	
	LC50 (fish)	0,28 mg/l	-----	Pimephales promelas
	EC50 (waterflea)	1,44 mg/l	-----	Daphnia magna
Pin-2(3)-ene	Log P(ow)	4,32		
Pin-2(10)-ene	LC50 (fish)	0,502 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	1,25 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	76 %	OECD 301 D	
	IC50 (algae)	0,826 mg/l	OECD 201	Pseudokirchnerella subcapitata
Pin-2(10)-ene	Log P(ow)	4,4		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste.
- Additional warning : None.
- Waste water discharge : Do not dispose into the environment, in drains or in water courses.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

*

14.1. UN number or ID number

UN nr. : UN 3082

14.2. UN proper shipping name

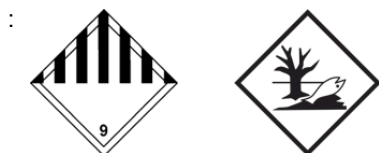
Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene ; 2,6-Di-tert-butyl-p-cresol)

Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene ; 2,6-Di-tert-butyl-p-cresol)

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)
Class : 9

Classification code : M6
 Packaging group : III
 Danger label : 9 + the "environmentally hazardous substance" mark.
 Tunnel restriction code : C/D



Other information : Not intended for carriage by tank-vessels on inland waterways. This product is not regulated as a dangerous good when transported in sizes of <= 5 L or <= 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (Special provisions 375).

IMDG (sea)

Class : 9
 Packaging group : III
 EmS (fire / spill) : F - A / S - F
 Marine pollutant : Yes
 Other information : This product is not regulated as a dangerous good when transported in sizes of <= 5 L or <= 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (IMDG code 37-14, 2.10.2.7).

IATA (air)

Class : 9
 ERG code : 9L

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION *

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

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations. Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION *

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this

product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
UFI	: Unique formula identifier
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Skin Irrit. 2	: Calculation method.
Eye Irrit. 2	: Calculation method.
Skin Sens. 1/1A/1B	: Calculation method.
Aquatic Chronic 2	: Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	: Flammable liquid, category 3.
Acute Tox. 3	: Acute toxicity, category 3.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Irrit. 2	: Skin irritation, category 2.
Eye Irrit. 2	: Eye irritation, category 2.
Skin Sens. 1/1A/1B	: Skin sensitization, category 1/1A/1B.
Repr. 2	: Reproductive toxicity, category 2.
Asp. Tox. 1	: Aspiration hazard, category 1.
Aquatic Chronic 1	: Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	: Hazardous to the aquatic environment — Chronic category 3.
Aquatic Chronic 4	: Hazardous to the aquatic environment — Chronic category 4.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H331	Toxic if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.