

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

1.1. Product identifier

Product name : LIMPRO PARFUM CARD HAMMAM EUCALYPTUS
Product code : LP4V018
UFI : 5Q10-W0DF-E001-W24G

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

Application : SU21 Consumer product. PC3 Air care products for indoor rooms (continuous action). Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Dovox B.V.
Computerweg 3
3542 DP UTRECHT, The Netherlands
Telephone : +31-30-7116 824
E-mail : info@dovox.nl
Website : www.dovox.nl

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-30-7116 824

(During office hours only)

SECTION 2 HAZARDS IDENTIFICATION *

2.1. Classification of the substance or mixture

CLP classification : Skin irritation, category 2. Serious eye damage, category 1. Skin sensitization, category 1.
(1272/2008/EC) Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : Causes skin irritation. Causes serious eye damage. 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 ((EU) 1272/2008):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H315 Causes skin irritation.
H318 Causes serious eye damage.
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 gloves Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P310 Immediately call a POISON CENTER/doctor.

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 : Danger

H- and P-phrases :

- H318 Causes serious eye damage.
- 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 gloves Wear protective gloves.
- P302+P352 IF ON SKIN: Wash with plenty of water/soap.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: Cineole ; Linalool ; alpha-Hexylcinnamaldehyde ; Linalyl acetate ; Phenethyl acetate ; 4-tert-Butylcyclohexyl acetate ; Pin-2(3)-ene ; 3-p-Cumenyl-2-methylpropionaldehyde ; Citronellol ; d-Limonene ; Geraniol ; (1S)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene ; Dodecanal ; Allyl 3-cyclohexylpropionate ; 3-(p-Methoxyphenyl)-2-methylpropionaldehyde ; Hexyl salicylate ; Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde ; p-Mentha-1,4(8)-diene ; Methyl 2,4-dihydroxy-3,6-dimethylbenzoate ; Trans-delta-damascone ; 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 *

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Cineole	10 - < 25	470-82-6	207-431-5		01-2119967772-24
2,6-Dimethyloct-7-en-2-ol	10 - < 25	18479-58-8	242-362-4		01-2119457274-37
Linalool	10 - < 20	78-70-6	201-134-4		01-2119474016-42
alpha-Hexylcinnamaldehyde	2,5 - < 5	101-86-0	202-983-3		01-2119533092-50
Benzyl acetate	1 - < 5	140-11-4	205-399-7		01-2119638272-42
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	1 - < 5	464-45-9	207-353-1		01-2120759187-44
Linalyl acetate	1 - < 5	115-95-7	204-116-4		
Phenethyl acetate	1 - < 5	103-45-7	203-113-5		01-2119976340-38
2-Phenylethanol	1 - < 5	60-12-8	200-456-2		01-2119963921-31
4-tert-Butylcyclohexyl acetate	1 - < 5	32210-23-4	250-954-9		01-2119976286-24
Pin-2(3)-ene	1 - < 5	80-56-8	201-291-9		



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Terpineol	1 - < 5	8000-41-7	232-268-1	
3-p-Cumenyl-2-methylpropionaldehyde	1 - < 5	103-95-7	203-161-7	01-2119970582-32
Citronellol	1 - < 5	106-22-9	203-375-0	01-2119453995-23
d-Limonene	1 - < 5	5989-27-5	227-813-5	01-2119529223-47
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	1 - < 5	127-51-5	204-846-3	01-2120138569-45
Geraniol	0,1 - < 1	106-24-1	203-377-1	01-2119552430-49
(1S)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	0,1 - < 1	498-15-7	207-856-6	01-2119520252-55
Dodecanal	0,1 - < 1	112-54-9	203-983-6	01-2119969441-33
Allyl 3-cyclohexylpropionate	0,1 - < 1	2705-87-5	220-292-5	01-2119976355-27
3-(p-Methoxyphenyl)-2-methylpropionaldehyde	0,1 - < 1	5462-06-6	226-749-5	01-2120629103-67
[3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	0,1 - < 1	469-61-4	207-418-4	
Hexyl salicylate	0,1 - < 1	6259-76-3	228-408-6	01-2119638275-36
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	0,1 - < 1	-----	943-728-2	01-2119982384-28
7-Methyl-3-methyleneocta-1,6-diene	0,1 - < 1	123-35-3	204-622-5	01-2119514321-56
p-Cymene	0,1 - < 1	99-87-6	202-796-7	01-2120807345-59
p-Mentha-1,4-diene	0,1 - < 1	99-85-4	202-794-6	01-2120780478-40
p-Mentha-1,4(8)-diene	0,1 - < 1	586-62-9	209-578-0	01-2119982325-32
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	0,1 - < 1	4707-47-5	225-193-0	01-2120762759-36
Trans-delta-damascone	0,1 - < 1	71048-82-3	275-156-8	01-2119535122-53
Bornan-2-one	0 - < 1	76-22-2	200-945-0	
Pin-2(10)-ene	0,1 - < 0,25	127-91-3	204-872-5	

Substance name	Hazard Class	H-phrases	Pictograms	
Cineole	Flam. Liq. 3; Skin Sens. 1B	H226; H317	GHS02; GHS07	
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
Linalool	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
alpha-Hexylcinnamaldehyde	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 2	H317; H400; H411	GHS07; GHS09	M (acute) = 1
Benzyl acetate	Aquatic Chronic 3	H412		
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	Flam. Sol. 2; Skin Irrit. 2	H228; H315	GHS02; GHS07	
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Phenethyl acetate	Eye Dam. 1	H318	GHS05	
2-Phenylethanol	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07	
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	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
Terpineol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
3-p-Cumenyl-2-methylpropionaldehyde	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3	H315; H317; H412	GHS07	



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	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
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Aquatic Chronic 2	H411	GHS09	
Geraniol	Skin Irrit. 2; Skin Sens. 1B; Eye Dam. 1	H315; H317; H318	GHS05; GHS07	
(1S)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 2	H226; H304; H315; H317; H400; H411	GHS02; GHS07; GHS08; GHS09	M (acute) = 1
Dodecanal	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Allyl 3-cyclohexylpropionate	Acute Tox. 4; Acute Tox. 4; Skin Sens. 1; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1	H302; H312; H317; H332; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
3-(p-Methoxyphenyl)-2-methylpropionaldehyde	Skin Sens. 1B	H317	GHS07	
[3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1	H304; H400; H410	GHS08; GHS09	M (acute) = 10 M (chronic) = 10
Hexyl salicylate	Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H315; H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
7-Methyl-3-methyleneocta-1,6-diene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 2	H226; H304; H315; H319; H400; H411	GHS02; GHS07; GHS08; GHS09	
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	inhalation: ATE = 3 mg/L (vapours)
p-Mentha-1,4-diene	Flam. Liq. 3; Repr. 2; Aquatic Chronic 2	H226; H361; H411	GHS02; GHS08; GHS09	
p-Mentha-1,4(8)-diene	Asp. Tox. 1; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H304; H317; H400; H410	GHS07; GHS08; GHS09	M (acute) = 1 M (chronic) = 1
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Skin Sens. 1B	H317	GHS07	
Trans-delta-damascone	Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H302; H315; H317; H400; H410	GHS07; GHS09	M (chronic) = 1
Bornan-2-one	Flam. Sol. 2; Skin Irrit. 2; Eye Dam. 1; Acute Tox. 4; STOT SE 2	H228; H315; H318; H332; H371	GHS02; GHS05; GHS07; GHS08	



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

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
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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 for at least 15 minutes. Remove contact lenses. Consult a doctor immediately.
- 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 : Strongly irritant. Irreversible effects on the eye/serious damage to eyes. May cause redness and severe 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 : Carbon dioxide (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 and combustion 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. 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		5	-		MAC: LT
Pin-2(3)-ene		113	-		MAC: BE
d-Limonene		28	80		MAC: DE, CH
p-Cymene		140	-		MAC: SV, ET, LT
Bornan-2-one		12	-		MAC BG, BE, EL, NO, etc
	GB	13	19	-	



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

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
Cineole	Inhalation				7,05 mg/m3
2,6-Dimethyloct-7-en-2-ol	Dermal				2 mg/kg bw/day
	Dermal				7 mg/kg bw/day
Linalool	Inhalation				24.7 mg/m3
	Inhalation				24.58 mg/m3
alpha-Hexylcinnamaldehyde	Dermal	3 mg/kg bw		3 mg/kg bw/day	3.5 mg/kg bw/day
	Inhalation	6,28 mg/m3			0,078 mg/m3
	Dermal	0,525 mg/kg bw		0,525 mg/kg bw/day	18,2 mg/kg bw/day
Benzyl acetate	Inhalation				9 mg/m3
	Dermal				2.5 mg/kg bw/day
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	Inhalation				0,208 mg/m3
	Dermal				0,059 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	2,5 mg/kg bw/day
	Dermal				2,5 mg/kg bw/day
Phenethyl acetate	Inhalation				2,75 mg/m3
	Inhalation				6,5 mg/m3
2-Phenylethanol	Dermal				2,27 mg/kg bw/day
	Inhalation				59,9 mg/m3
Pin-2(3)-ene	Dermal				21,2 mg/kg bw/day
	Inhalation				3,8 mg/m3
Terpineol	Dermal		5 mg/kg bw		0,542 mg/kg bw/day
	Dermal		5,8 mg/m3		1,17 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation				5,8 mg/m3
	Inhalation				5,83 mg/m3
	Dermal			0,00743 mg/kg bw/day	1,67 mg/kg bw/day
Citronellol	Inhalation	10 mg/m3		10 mg/m3	161,6 mg/m3
	Dermal	2,950 mg/kg bw			327,4 mg/kg bw/day
d-Limonene	Inhalation				66,7 mg/m3
	Dermal				9,5 mg/kg bw/day
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Inhalation				8.22 mg/m3
	Dermal				0.375 mg/kg bw/day
Geraniol	Inhalation				161,6 mg/m3
	Dermal				12,5 mg/kg bw/day
(1S)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Inhalation			1,52 mg/m3	8,63 mg/m3
	Dermal				2,45 mg/kg bw/day
Dodecanal	Inhalation				49,7 mg/m3
	Dermal			0,00057 mg/kg bw/day	14,1 mg/kg bw/day
Allyl 3-cyclohexylpropionate	Inhalation				15 mg/m3
	Dermal				4,3 mg/kg bw/day
3-(p-Methoxyphenyl)-2-methylpropionaldehyde	Inhalation				6.35 mg/m3
	Dermal			3.9923 mg/kg bw/day	1.8 mg/kg bw/day
Hexyl salicylate	Dermal	0,885 mg/kg bw		0,885 mg/kg bw/day	6,4 mg/kg bw/day



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Inhalation Inhalation				1,7 mg/m ³ 1,837 mg/m ³
p-Cymene	Dermal Inhalation				0,521 mg/kg bw/day 0,88 mg/m ³
p-Mentha-1,4-diene	Dermal Inhalation				0,25 mg/kg bw/day 2,939 mg/m ³
p-Mentha-1,4(8)-diene	Dermal Inhalation Dermal				0,833 mg/kg bw/day 3,6 mg/m ³ 0,52 mg/kg bw/day
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Dermal			0,044 mg/kg bw/day 2,5 mg/kg bw/day	
Trans-delta-damascone	Inhalation Dermal				1,5 mg/m ³ 0,014 mg/kg bw/day 0,4 mg/kg bw/day
Bornan-2-one	Inhalation Dermal				17,632 mg/m ³ 10 mg/kg bw/day
Pin-2(10)-ene	Inhalation Dermal			0,054 mg/kg bw/day	5,69 mg/m ³ 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
Cineole	Inhalation Dermal				1,74 mg/m ³ 1 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Oral Dermal Inhalation				600 mg/kg bw/day 2,5 mg/kg bw/day 4,35 mg/m ³
Linalool	Oral Dermal	1,5 mg/kg bw		1,5 mg/kg bw/day	2,5 mg/kg bw/day 1,25 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Inhalation Oral Inhalation Dermal	4,71 mg/m ³ 0,0787 mg/kg bw		0,0787 mg/kg bw/day	4,33 mg/m ³ 2,49 mg/kg bw/day 0,019 mg/m ³ 9,11 mg/kg bw/day
Benzyl acetate	Oral Inhalation Dermal				0,056 mg/kg bw/day 2,2 mg/m ³ 1,3 mg/kg bw/day
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	Oral Inhalation		6,25 mg/kg bw		1,3 mg/kg bw/day 0,051 mg/m ³
Linalyl acetate	Dermal Oral Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	0,029 mg/kg bw/day 0,029 mg/kg bw/day 1,25 mg/kg bw/day
Phenethyl acetate	Inhalation Oral Inhalation Dermal				0,68 mg/m ³ 0,2 mg/kg bw/day 1,61 mg/m ³ 1,14 mg/kg bw/day
2-Phenylethanol	Oral Inhalation Dermal		2,5 mg/kg bw		0,42 mg/kg bw/day 17,7 mg/m ³ 12,7 mg/kg bw/day



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Pin-2(3)-ene	Oral		5,1 mg/kg bw		5,1 mg/kg bw/day
	Inhalation				0,674 mg/m3
Terpineol	Dermal				0,225 mg/kg bw/day
	Oral				0,225 mg/kg bw/day
	Dermal		2,5 mg/kg bw		0,42 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation		1,25 mg/m3		1,25 mg/m3
	Oral		2,5 mg/kg bw		0,42 mg/kg bw/day
	Dermal			0,00372 mg/kg bw/day	0,83 mg/kg bw/day
Citronellol	Oral				0,83 mg/kg bw/day
	Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3
	Dermal	2,950 mg/kg bw			196,4 mg/kg bw/day
d-Limonene	Oral				13,8 mg/kg bw/day
	Inhalation				16,6 mg/m3
	Dermal				4,8 mg/kg bw/day
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Oral				4,8 mg/kg bw/day
	Inhalation				1,45 mg/m3
	Dermal				0,0446 mg/kg bw/day
Geraniol	Oral				0,0355 mg/kg bw/day
	Inhalation				47,8 mg/m3
	Dermal				7,5 mg/kg bw/day
(1S)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Oral				13,75 mg/kg bw/day
	Dermal				0,875 mg/kg bw/day
	Oral				0,875 mg/kg bw/day
Dodecanal	Inhalation				12,3 mg/m3
	Dermal			0,00028 mg/kg bw/day	7 mg/kg bw/day
	Oral				7 mg/kg bw/day
Allyl 3-cyclohexylpropionate	Inhalation				3,7 mg/m3
	Dermal				2,1 mg/kg bw/day
	Oral				2,1 mg/kg bw/day
3-(p-Methoxyphenyl)-2-methylpropionaldehyde	Oral				1,08 mg/kg bw/day
	Inhalation				1,88 mg/m3
	Dermal			3,9923 mg/kg bw/day	1,08 mg/kg bw/day
Hexyl salicylate	Dermal	0,4425 mg/kg bw		0,4425 mg/kg bw/day	3,2 mg/kg bw/day
	Inhalation				0,4 mg/m3
	Oral				0,3 mg/kg bw/day
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Inhalation				0,543 mg/m3
	Oral				0,312 mg/kg bw/day
	Dermal				0,312 mg/kg bw/day
p-Cymene	Oral				0,125 mg/kg bw/day
	Inhalation				0,22 mg/m3
	Dermal				0,125 mg/kg bw/day
p-Mentha-1,4-diene	Inhalation				0,725 mg/m3
	Dermal				0,417 mg/kg bw/day
	Oral				0,417 mg/kg bw/day
p-Mentha-1,4(8)-diene	Oral				0,26 mg/kg bw/day
	Inhalation				0,9 mg/m3



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Dermal				0,26 mg/kg bw/day
	Dermal			1,25 mg/kg bw/day	
Trans-delta-damascone	Dermal			0,0086 mg/kg bw/day	0,25 mg/kg bw/day
	Oral				0,25 mg/kg bw/day
Bornan-2-one	Inhalation				0,43 mg/m3
	Inhalation				4,348 mg/m3
Pin-2(10)-ene	Dermal				5 mg/kg bw/day
	Oral				5 mg/kg bw/day
	Inhalation				1 mg/m3
	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	
Cineole	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
	Soil			0,25 mg/kg
2,6-Dimethyloct-7-en-2-ol	Oral			40 mg/kg food
	Water	0,0278 mg/l	0,0027 mg/l	
	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water			0,278 mg/l
	STP			10 mg/l
Linalool	Soil			0,103 mg/kg
	Oral			111 mg/kg food
	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
alpha-Hexylcinnamaldehyde	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
	Water	0.001 mg/l		
	Sediment	3.2 mg/kg	0.064 mg/kg	
Benzyl acetate	Intermittent water			0,03 mg/l
	STP			10 mg/l
	Soil			0.398 mg/kg
	Oral			6.6 mg/kg food
	Water	0.018 mg/l	0.002 mg/l	
(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	Sediment	0.526 mg/kg	0.053 mg/kg	
	Intermittent water			0,04 mg/l
	STP			8,55 mg/l
	Soil			0.094 mg/kg
	Water	0.009 mg/l	0.001 mg/l	
Linalyl acetate	Sediment	0.103 mg/kg	0.01 mg/kg	
	STP			10 mg/l
	Soil			0.01 mg/kg
	Oral			1.31 mg/kg food
	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
	Soil			0,115 mg/kg



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Phenethyl acetate	Water	0,011 mg/l	0,0011 mg/l	
	Sediment	0,128 mg/kg	0,013 mg/kg	
	Intermittent water			0,105 mg/l
	STP			10 mg/l
2-Phenylethanol	Soil			0,019 mg/kg
	Water	0,215 mg/l	0,0215 mg/l	
	Sediment	1,454 mg/kg	0,1454 mg/kg	
	Intermittent water			2,15 mg/l
4-tert-Butylcyclohexyl acetate	STP			10 mg/l
	Soil			0,164 mg/kg
	Water	0,0053 mg/l	0,00053 mg/l	
	Sediment	2,01 mg/kg	0,21 mg/kg	
Pin-2(3)-ene	Intermittent water			0,053 mg/l
	STP			12,2 mg/l
	Soil			0,42 mg/kg
	Oral			66,76 mg/kg food
Terpineol	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
3-p-Cumenyl-2-methylpropionaldehyde	Oral			8,76 mg/kg food
	Water	0,062 mg/l	0,0062 mg/l	
	Sediment	0,442 mg/kg	0,044 mg/kg	
	STP			2,57 mg/l
Citronellol	Soil			0,052 mg/kg
	Oral			16,6 mg/kg food
	Water	0,00109 mg/l	0,00011 mg/l	
	Sediment	0,126 mg/kg	0,013 mg/kg	
d-Limonene	Intermittent water			0,01092 mg/l
	STP			1 mg/l
	Soil			0,025 mg/kg
	Oral			33,3 mg/kg food
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Water	0,002 mg/l	0 mg/l	
	Sediment	0,026 mg/kg	0,003 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
Geraniol	Soil			0,004 mg/kg
	Water	0,014 mg/l	0,0014 mg/l	
	Sediment	3,85 mg/kg	0,385 mg/kg	
	STP			1,8 mg/l
(1S)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Soil			0,763 mg/kg
	Oral			133 mg/kg food
	Water	0,00143 mg/l	0,000143 mg/l	
	Sediment	0,443 mg/kg	0,0443 mg/kg	
3-ene	STP			10 mg/l
	Soil			0,0878 mg/kg
	Water	0,0108 mg/l	0,0010 mg/l	
	Sediment	0,115 mg/kg	0,0115 mg/kg	
3-ene	Intermittent water			0,108 mg/l
	STP			0,7 mg/l
	Soil			0,0167 mg/kg
	Water	0,001 mg/l	0,0001 mg/l	
3-ene	Sediment	0,237 mg/kg	0,0237 mg/kg	
	STP			3,26 mg/l
	Soil			0,0473 mg/kg



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Dodecanal	Oral			24.8 mg/kg food
	Water	0,0035 mg/l	0,00035 mg/l	
	Sediment	1,41 mg/kg	0,141 mg/kg	
	Intermittent water			0,035 mg/l
	STP			10 mg/l
Allyl 3-cyclohexylpropionate	Soil			0,278 mg/kg
	Oral			313 mg/kg food
	Water	0,0001 mg/l	0,00001 mg/l	
	Sediment	0,0241 mg/kg	0,0024 mg/kg	
	Intermittent water			0,0013 mg/l
3-(p-Methoxyphenyl)-2-methylpropionaldehyde	STP			0,2 mg/l
	Soil			0,0047 mg/kg
	Oral			143 mg/kg food
	Water	0,0052 mg/l	0,00052 mg/l	
	Sediment	0,104 mg/kg	0,014 mg/kg	
Hexyl salicylate	STP			3 mg/l
	Soil			0,0178 mg/kg
	Water	0 mg/l	0 mg/l	
	Sediment	0,272 mg/kg	0,027 mg/kg	
	Intermittent water			0,0036 mg/l
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	STP			10 mg/l
	Soil			0,054 mg/kg
	Water	0,0075 mg/l	0,00075 mg/l	
	Sediment	0,226 mg/kg	0,023 mg/kg	
	STP			10 mg/l
p-Cymene	Soil			0,041 mg/kg
	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
p-Mentha-1,4-diene	Water	0,003 mg/l	0 mg/l	
	Sediment	0,49 mg/kg	0,049 mg/kg	
	STP			10 mg/l
	Soil			0,423 mg/kg
	p-Mentha-1,4(8)-diene	Water	0,0006 mg/l	0,00006 mg/l
Sediment		0,147 mg/kg	0,0147 mg/kg	
STP				0,2 mg/l
Soil				0,0291 mg/kg
Oral				10,31 mg/kg food
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Water	0,0033 mg/l	0,00033 mg/l	
	Sediment	0,089 mg/kg	0,0089 mg/kg	
	STP			10 mg/l
	Soil			0,016 mg/kg
	Trans-delta-damascone	Water	0,007 mg/l	0,0007 mg/l
Sediment		0,906 mg/kg	0,0906 mg/kg	
Intermittent water				0,0035 mg/l
STP				2,41 mg/l
Soil				0,177 mg/kg
Bornan-2-one	Oral			0,074 mg/kg food
	Water	0,0017 mg/l	0,00017 mg/l	
	Sediment	0,139 mg/kg	0,017 mg/kg	
	STP			1 mg/l



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Pin-2(10)-ene	Soil			0,013 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: nitril. Indication of permeation breakthrough time: not known.
- 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: nitril. ± 0,5 mm. Indication of permeation breakthrough time: not known.
- Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	Impregnated material.
Colour	: Light yellow.	
Odour	: Perfumed.	
Odour threshold	: Not known.	
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	: 85 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 220 °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)
		Does not contain oxidizing substances.
Oxidising properties	: Not applicable.	
Decomposition temperature	: Not known.	
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) : Not known.
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

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: 67 %. ATE: > 5 mg/l. Not classified - based on available data, the classification criteria are not met.
- 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 : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 4352 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 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 : Risk of serious damage to eyes.



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Ingestion

- Acute toxicity : Calculated LD50: > 2706 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 : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. 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	
Cineole	LD50 (oral)	2480 mg/kg bw	----	Rat	
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit	
	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		
	2,6-Dimethyloct-7-en-2-ol	NOAEL (development) - estimate	1000 mg/kg.d	Read across	Rat
		Mutagenicity	Not mutagenic	OECD 471	
Genotoxicity - in vitro		Not genotoxic	OECD 476		
NOAEL (oral) - estimate		500 mg/kg bw/d	Read across	Rat	
LD50 (oral)		3600 mg/kg bw	----	Rat	
Skin sensitisation		Not sensitizing			
Skin irritation		Slightly irritant	----	Rabbit	
Eye irritation		Moderately irritant	OECD 405	Rabbit	
LD50 (dermal)		> 5000 mg/kg bw	----	Rabbit	
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	
alpha-Hexylcinnamaldehyde	LD50 (oral)	2790 mg/kg bw	----	Rat	
	NOAEL (oral)	117 mg/kg bw/d	----	Rat	
	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat	
	Genotoxicity - in vivo	Not genotoxic	OECD 474		
	Genotoxicity - in vitro	Not genotoxic	OECD 476		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
	Eye irritation	Non-irritant		Rabbit	
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat	
	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit	



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
	LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	NOAEL (dermal)	25 mg/kg bw/d		Rat
	LD50 (oral)	6500 mg/kg bw		Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	Skin irritation	Irritant	OECD 439	
	Eye irritation	Non-irritant		
	Skin sensitisation	Not sensitizing	OECD 442D	
Linalyl acetate	NOAEL (oral)	11,79 mg/kg bw/d	OECD 408	Rat
	Genotoxicity - estimate	Not genotoxic	Read across	
	Mutagenicity - estimate	Not mutagenic	Read across	Salmonella typhimurium
	NOAEL (development) - estimate	785,84 mg/kg.d	Read across	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
Phenethyl acetate	NOAEL (oral) - estimate	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
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	Not genotoxic	Read across	
4-tert-Butylcyclohexyl acetate	Skin irritation	Non-irritant	OECD 404	Rabbit
	Eye irritation	Highly irritant		Rabbit
	NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d		Mouse
	NOAEL (development) - estimate	500 mg/kg.d	Read across	
	NOAEL (fertility) - estimate	500 mg/kg.d	Read across	
	LD50 (oral)	5000 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 766 mg/m3		Rat
	LD50 (dermal)	6210 mg/kg bw	OECD 402	Rabbit
	Skin sensitisation	Not sensitizing		Guinea pig
	NOAEL (oral) - estimate	250 mg/kg bw/d	Read across	Rat
LC50 (inhalation) - estimate	> 5000 mg/m3	-----	Rat	
LD50 (oral)	5000 mg/kg bw	-----	Rat	
LD50 (dermal)	> 5000 mg/kg bw		Rabbit	
Eye irritation	Non-irritant		Rabbit	



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Pin-2(3)-ene	Skin irritation	Non-irritant	Read across	Rabbit
	NOAEL (oral) - estimate	710 mg/kg bw/d		
	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
Terpineol	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
	Skin irritation	Moderately irritant	-----	Rabbit
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (oral)	250 mg/kg bw/d	OECD 422	Rat
	LD50 (oral)	> 2000 mg/kg bw	OECD 401	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3		
	LC50 (inhalation)	> 4760 mg/m3	OECD 403	Rat
3-p-Cumenyl-2-methylpropionaldehyde	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	250 mg/kg bw/d	OECD 422	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development, oral)	> 250 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	5575 ug/cm2	OECD 429	Mouse
	NOAEL (oral)	300 mg/kg bw/d		Rabbit
	Skin irritation	Slightly irritant		Rabbit
	LD50 (oral)	3810 mg/kg bw	-----	Rat
	NOAEL (fertility, oral)	25 mg/kg bw/d	OECD 415	Rat
Citronellol	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	> 2000 mg/kg bw/d	Read across	Mouse
	Eye irritation	Non-irritant		Rabbit
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw	-----	Rat
d-Limonene	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
	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			



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Geraniol	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		
	NOAEL (oral)	150 mg/kg bw/d		Rat
	NOEL (oral)	> 550 mg/kg bw/d		Rat
	NOAEL (oral)	> 550 mg/kg bw/d		
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit
	LD50 (oral)	> 2840 mg/kg bw	-----	Rat
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	
	NOAEL (dermal)	300 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
(1S)-3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	> 3700 mg/kg bw	-----	Rat
	Skin irritation	Irritant	ECVAM Episkin Skin Irritation Test	Human
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	Skin sensitisation	Sensitizing.	Patch test	Guinea pig
	NOAEL (oral)	744 mg/kg bw/d	OECD 408	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	Skin irritation	Mildly irritant		Human
	LD50 (oral)	23100 mg/kg bw	-----	Rat
	Dodecanal	NOAEL (oral)	1409 mg/kg bw/d	OECD 408
Genotoxicity - estimate		Not genotoxic	Read across	
Skin irritation - estimate		Irritant	Read across	Rabbit
Eye irritation - estimate		Irritant	Read across	Rabbit
Skin sensitisation - estimate		Sensitizing.	Read across	Mouse
Genotoxicity - in vitro		Not genotoxic	OECD 476	Chinese Hamster
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
NOAEL (fertility, oral)		125 mg/kg bw/d	OECD 415	Rat
NOAEL (oral)		> 125 mg/kg bw/d		Rat
LD50 (oral)		585 mg/kg bw	OECD 401	Rat
LD50 (dermal)		1600 mg/kg bw	OECD 402	Rabbit
Skin irritation		Non-irritant	-----	-----
Eye irritation		Non-irritant	OECD 405	Rabbit
NOAEL (development, oral)		10 mg/kg bw/d	OECD 414	Rat
3-(p-Methoxyphenyl)-2-methylpropionaldehyde		Skin sensitisation	Sensitizing.	OECD 406
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	LD50 (oral)	> 5000 mg/kg bw		Rat
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Hexyl salicylate	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	NOAEL (inhalation)	249 mg/m ³	OECD 412	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	NOAEL (oral) - estimate	50 mg/kg bw/d	Read across	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Genotoxicity - in vivo	Not genotoxic	-----	Mouse
	NOAEL (development) - estimate	Not teratogenic	Read across	
	NOAEL (fertility) - estimate	Not reprotoxic	Read across	
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	LD50 (oral)	3900 mg/kg bw		Rat
	Eye irritation	Slightly irritant		Rabbit
	Skin irritation	Irritant		Rabbit
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Skin sensitisation - estimate	Sensitizing.	Read across	Guinea pig
	NOAEL (development) - estimate	25 mg/kg.d	Read across	Rat
	NOAEL (fertility) - estimate	Not reprotoxic	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
p-Mentha-1,4(8)-diene	Genotoxicity - estimate	Not genotoxic	Read across	
	NOAEL (oral) - estimate	150 mg/kg bw/d	Read across	Rat
	NOAEL (oral) - estimate	1200 mg/kg bw/d	Read across	
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (development) - estimate	591 mg/kg.d	Read across	
	NOAEL (fertility) - estimate	> 500 mg/kg.d	Read across	
	NOEL (carcinogenicity) - estimate	Not carcinogenic		
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	LD50 (oral)	3860 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin irritation	Non-irritant	OECD 439	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	Skin irritation	Non-irritant		
	Eye irritation	Non-irritant	OECD 405	Rabbit
	LD50 (dermal) - estimate	> 5000 mg/kg bw	Read across	
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Skin irritation	Irritant		
Trans-delta-damascone				



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Pin-2(10)-ene	Skin sensitisation - estimate	Sensitizing.		
	LD50 (oral)	1400 mg/kg bw	-----	Mouse
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	Genotoxicity - in vitro	Not genotoxic		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Non-irritant		
	NOAEL (development) - estimate	> 30 mg/kg.d	Read across	Rat
	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): 2 mg/l. Calculated EC50 (waterflea): 1 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
alpha-Hexylcinnamaldehyde	NOEC (fish)	0,93 mg/l	OECD 203	Pimephales promelas
	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Pin-2(3)-ene	Ultimate aerobic biodegradation (%)	97 %	OECD 301 F	
	LC50 (algae)	> 0,32 mg/l	OECD 201	Desmodesmus subspicatus
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Log P(ow)	5,3		
	Ultimate aerobic biodegradation (%)	62 %	OECD 301 B	
	LC50 (fish)	0,28 mg/l	-----	Pimephales promelas
	EC50 (waterflea)	1,44 mg/l	-----	Daphnia magna
Allyl 3-cyclohexylpropionate	Log P(ow)	4,32		
	LC50 (fish)	10,9 mg/l	OECD 203	Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	61,8 %	OECD 301 B	
	EC50 (waterflea) - estimate	3,04 mg/l	-----	Daphnia magna
	EC50 (waterflea)	4,7 mg/l	OECD 202	Daphnia magna
[3R-(3α,3aβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	IC50 (algae)	> 20 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	4,288		
	LC50 (fish)	0,13 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	3,8 mg/l	OECD 202	Daphnia magna
Hexyl salicylate	IC50 (algae)	2,1 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	86 %	OECD 301 D	
	Log P(ow)	4,12		
p-Mentha-1,4(8)-diene	BCF	861		
	LC50 (fish) - estimate	0,055 mg/l	-----	-----
	EC50 (waterflea) - estimate	> 0,01 mg/l		
	Log P(ow)	6,38		
Trans-delta-damascone	EC50 (waterflea)	0,357 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	0,61 mg/l	OECD 201	Desmodesmus subspicatus
	LC50 (fish) - estimate	1,34 mg/l	-----	Brachydanio rerio
Pin-2(10)-ene	Ultimate aerobic biodegradation (%)	91 %	OECD 301 F	
	NOEC (waterflea) - acute	0,140 mg/l	OECD 202	Daphnia magna
	Log P(ow)	5,5000		
	IC50 (algae)	> 3,38 mg/l		Selenastrum capricornutum
Pin-2(10)-ene	EC50 (waterflea)	1,38 mg/l		Daphnia magna
	LC50 (fish)	1,21 mg/l		Pimephales promelas
	Ultimate aerobic biodegradation (%)	62,1 %	OECD 301 B	
Pin-2(10)-ene	Log P(ow)	5,1000		
	LC50 (fish)	0,97 mg/l	OECD 203	Cryzias latipes
	NOEC (waterflea) - chronic	0,35 mg/l.d	OECD 211	Daphnia magna
Pin-2(10)-ene	Log P(ow)	4,2		
	LC50 (fish)	0,502 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	1,25 mg/l	OECD 202	Daphnia magna



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Ultimate aerobic biodegradation (%)	76 %	OECD 301 D	
IC50 (alga)	0,826 mg/l	OECD 201	Pseudokirchnerella subcapitata
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 of into the environment, drains, sewers or 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

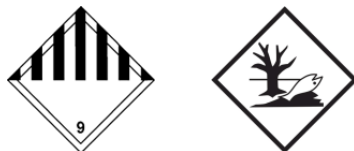
14.2. UN proper shipping name

- Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pin-2(3)-ene ; [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one)
- Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pin-2(3)-ene ; [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one)

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 : (-)



- 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 Dam. 1	: 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.
Flam. Sol. 1	: Flammable solid, category 1.
Acute Tox. 3	: Acute toxicity, category 3.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Irrit. 2	: Skin irritation, category 2.
Eye Dam. 1	: Serious eye damage, category 1.
Eye Irrit. 2	: Eye irritation, category 2.
Skin Sens. 1/1A/1B	: Skin sensitization, category 1/1A/1B.
STOT SE 2	: Specific target organ toxicity after single exposure, 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 Acute 1	: Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
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.

Advice on any training appropriate for workers: none.



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Number format : "," used as decimal separator.

End of safety data sheet.