



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

1.1. Product identifier

Product name : LAFITA PARFUM CARD QUARTIER LATIN
Product code : LF1V223, LF1V423
UFI : HC30-H0H0-700E-GJ6Q

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 (instant action). Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Dovox B.V.
Leemansweg 40
6827 BX Arnhem, 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 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 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: d-Limonene ; Linalyl acetate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers) ; Linalool ; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; Octahydro-2H-1-benzopyran-2-one ; (Ethoxymethoxy)cyclododecane ; [3R-(3 α ,3 α β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene ; 3,7-Dimethylnona-1,6-dien-3-ol ; 4-tert-Butylcyclohexyl acetate ; Citronellol ; Geraniol ; (-)-Pin-2(10)-ene ; Allyl 3-cyclohexylpropionate ; 2-(2,2,7,7-Tetramethyltricyclo[6.2.1.0((1,6)]undec-5 and 4-en-5-yl)propan-1-ol ; 3-p-Cumenyl-2-methylpropionaldehyde ; (E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one ; Cineole ; (Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one ; Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde ; 2,6-Dimethylhept-5-enal ; 2,2,6-Trimethyl- α -propylcyclohexanepropanol ; Methyl 2,4-dihydroxy-3,6-dimethylbenzoate ; Citral ; Trans-delta-damascone ; Pin-2(3)-ene ; Isoeugenol .

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

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.
Cis-2-tert-butylcyclohexyl acetate	5 - < 10	20298-69-5	243-718-1		01-2119970713-33
d-Limonene	5 - < 10	5989-27-5	227-813-5		01-2119529223-47
Linalyl acetate	5 - < 10	115-95-7	204-116-4		01-2119454789-19



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	5 - < 10	----	915-730-3	01-2119489989-04
Linalool	5 - < 10	78-70-6	201-134-4	01-2119474016-42
Allyl (3-methylbutoxy)acetate	1 - < 5	67634-00-8	266-803-5	01-2120795456-39
1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	1 - < 5	139504-68-0	412-300-2	01-0000015959-52
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	1 - < 5	67674-46-8	266-885-2	01-2120741268-52
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1 - < 3	1205-17-0	214-881-6	01-2120740119-58
Octahydro-2H-1-benzopyran-2-one	1 - < 5	4430-31-3	224-623-4	01-2120746527-47
(Ethoxymethoxy)cyclododecane	1 - < 5	58567-11-6	261-332-1	01-2119971571-34
[3R-(3 α ,3 β ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	1 - < 5	67874-81-1	267-510-5	01-2120228335-61
Allyl (cyclohexyloxy)acetate	1 - < 5	68901-15-5	272-657-3	01-2120770514-54
2,6-Dimethyloct-7-en-2-ol	1 - < 5	18479-58-8	242-362-4	01-2119457274-37
3,7-Dimethylnona-1,6-dien-3-ol	1 - < 5	10339-55-6	233-732-6	01-2119969272-32
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	1 - < 5	63500-71-0	405-040-6	01-2119455547-30
4-tert-Butylcyclohexyl acetate	1 - < 5	32210-23-4	250-954-9	01-2119976286-24
Reaction mass of 1-methyl-3-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde and 1-methyl-4-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde	1 - < 5	----	915-712-5	01-2120735080-68
Reaction products of (2,2,3-trimethylcyclopent-3-en-1-yl)acetaldehyde and butan-2-one, hydrogenated	1 - < 5	1471313-03-7	939-525-3	01-2119975588-15
Citronellol	1 - < 5	106-22-9	203-375-0	01-2119453995-23
Geraniol	1 - < 3	106-24-1	203-377-1	01-2119552430-49
(-)-Pin-2(10)-ene	1 - < 2,5	18172-67-3	242-060-2	
Allyl 3-cyclohexylpropionate	0,1 - < 1	2705-87-5	220-292-5	
2-(2,2,7,7-Tetramethyltricyclo[6.2.1.0((1,6)]undec-5 and 4-en-5-yl)propan-1-ol	0,1 - < 1	1001252-30-7	482-030-8	01-0000020145-80
3-p-Cumenyl-2-methylpropionaldehyde	0,1 - < 1	103-95-7	203-161-7	01-2119970582-32
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	0,1 - < 1	23726-93-4	245-844-2	01-2120105798-49
Cineole	0,1 - < 1	470-82-6	207-431-5	01-2119967772-24
(Z)-3-hexenyl salicylate	0,1 - < 1	65405-77-8	265-745-8	
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	0,1 - < 1	81786-73-4	279-822-9	01-2119980043-42
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
2,6-Dimethylhept-5-enal	0,1 - < 1	106-72-9	203-427-2	01-2120270305-62
7-Methyl-3-methyleneocta-1,6-diene	0,1 - < 1	123-35-3	204-622-5	01-2119514321-56
2,2,6-Trimethyl- α -propylcyclohexane-propanol	0,1 - < 1	----	942-425-2	01-2120085416-52
($\pm$) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	0,1 - < 1	107898-54-4	411-580-3	01-0000000316-81
p-Mentha-1,4-diene	0,1 - < 1	99-85-4	202-794-6	01-2120780478-40
4-Methyl-3-decen-5-ol	0,1 - < 1	81782-77-6	279-815-0	01-2119983528-21
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	0,1 - < 1	4707-47-5	225-193-0	01-2120762759-36
acetophenone	0,1 - < 1	98-86-2	202-708-7	



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Citral	0,1 - < 1	5392-40-5	226-394-6		01-2119462829-23
Trans-delta-damascone	0,1 - < 1	71048-82-3	275-156-8		01-2119535122-53
Pin-2(3)-ene	0,1 - < 1	80-56-8	201-291-9		
Bornan-2-one	0,1 - < 1	76-22-2	200-945-0		
Isoeugenol	< 0,01	97-54-1	202-590-7		

Substance name	Hazard Class	H-phrases	Pictograms	
Cis-2-tert-butylcyclohexyl acetate	Aquatic Chronic 2	H411	GHS09	
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
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1	H315; H317; H410	GHS07; GHS09	
Linalool	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Allyl (3-methylbutoxy)acetate	Acute Tox. 4; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H302; H330; H400; H410	GHS06; GHS09	M (acute) = 1 M (chronic) = 1
1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	Eye Irrit. 2; Aquatic Chronic 2	H319; H411	GHS07; GHS09	
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	Skin Irrit. 2; Aquatic Chronic 3	H315; H412	GHS07	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Skin Sens. 1B; Repr. 2; Aquatic Chronic 2	H317; H361fd; H411	GHS07; GHS08; GHS09	
Octahydro-2H-1-benzopyran-2-one (Ethoxymethoxy)cyclododecane	Eye Dam. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H318; H315; H317; H411	GHS05; GHS07; GHS09	
[3R-(3 α ,3 α β ,6 α ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
Allyl (cyclohexyloxy)acetate	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1	H302; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
3,7-Dimethylnona-1,6-dien-3-ol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Eye Irrit. 2	H319	GHS07	
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	GHS07	
Reaction mass of 1-methyl-3-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde and 1-methyl-4-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1 M (chronic) = 1
Reaction products of (2,2,3-trimethylcyclopent-3-en-1-yl)acetaldehyde and butan-2-one, hydrogenated	Eye Irrit. 2; Aquatic Chronic 2	H319; H411	GHS07; GHS09	
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Geraniol	Skin Irrit. 2; Skin Sens. 1B; Eye Dam. 1	H315; H317; H318	GHS05; GHS07	



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
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
2-(2,2,7,7-Tetremethyltricyclo[6.2.1.0((1,6)]undec-5 and 4-en-5-yl)propan-1-ol	Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1	H315; H317; H400; H410	GHS07; GHS09	
3-p-Cumenyl-2-methylpropionaldehyde	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3	H315; H317; H412	GHS07	
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Skin Irrit. 2; Skin Sens. 1A; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
Cineole	Flam. Liq. 3; Skin Sens. 1B	H226; H317	GHS02; GHS07	
(Z)-3-hexenyl salicylate	Aquatic Acute 1	H400	GHS09	M (acute) = 1
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
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	
2,6-Dimethylhept-5-enal	Skin Sens. 1B	H317	GHS07	
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	
2,2,6-Trimethyl-α-propylcyclohexane-propanol	Skin Sens. 1B	H317	GHS07	
(±) trans—3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	Skin Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1	H315; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
p-Mentha-1,4-diene	Flam. Liq. 3; Repr. 2; Aquatic Chronic 2	H226; H361d; H411	GHS02; GHS08; GHS09	
4-Methyl-3-decen-5-ol	Aquatic Acute 1; Aquatic Chronic 2	H400; H411	GHS09	M (acute) = 1
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Skin Sens. 1B	H317	GHS07	
acetophenone	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07	
Citral	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Trans-delta-damascone	Acute Tox. 4; Skin Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1; Skin Sens. 1A	H302; H315; H400; H410; H317	GHS07; GHS09	M (acute) = 1
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
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

Isoeugenol	Acute Tox. 4; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Eye Irrit. 2; Acute Tox. 4; STOT SE 3	H302; H312; H315; H317; H319; H332; H335	GHS07	H317 : C >= 0,01 %
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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 : 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 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
d-Limonene	GB	28	80	-	MAC: DE, CH
acetophenone		5	-		MAC: BG, LV, LT
Pin-2(3)-ene		113	-		MAC: BE
Bornan-2-one		12	-		MAC BG, BE, EL, NO, etc
Oxydipropanol		13 67	19		MAC: DE



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
d-Limonene	Inhalation				66,7 mg/m3
	Dermal				9,5 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/m3
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Inhalation				30 mg/m3
	Dermal			0,648 mg/kg bw/day	28,7 mg/kg bw/day
Linalool	Inhalation				24.58 mg/m3
	Dermal	3 mg/kg bw		3 mg/kg bw/day	3.5 mg/kg bw/day
Allyl (3-methylbutoxy)acetate	Dermal				1,4 mg/kg bw/day
	Inhalation				4,93 mg/m3
1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	Inhalation				17,6 mg/m3
	Dermal				5 mg/kg bw/day
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	Inhalation		108,43 mg/m3	36,14 mg/m3	14,46 mg/m3
	Dermal	30,75 mg/kg bw	12,3 mg/kg bw	10,25 mg/kg bw/day	4,1 mg/kg bw/day
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Inhalation				1,2 mg/m3
	Dermal			0,01 mg/kg bw/day	0,17 mg/kg bw/day
Octahydro-2H-1-benzopyran-2-one	Inhalation				6,3 mg/m3
	Dermal				1,8 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Inhalation				23,5 mg/m3
	Dermal				3,3 mg/kg bw/day
[3R-(3 α ,3 α β ,6 α ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Inhalation				16.1 mg/m3
	Dermal			2.03 mg/kg bw/day	4.5 mg/kg bw/day
Allyl (cyclohexyloxy)acetate	Inhalation				3,16 mg/m3
	Dermal				0,448 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal				7 mg/kg bw/day
	Inhalation				24.7 mg/m3
3,7-Dimethylnona-1,6-dien-3-ol	Inhalation		18 mg/m3		3 mg/m3
	Dermal	1,6 mg/kg bw	5,5 mg/kg bw	1,6 mg/kg bw/day	2,7 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
Geraniol	Inhalation				161,6 mg/m3
	Dermal				12,5 mg/kg bw/day
(-)-Pin-2(10)-ene	Inhalation				5,69 mg/m3
	Dermal			0,054 mg/kg bw/day	0,8 mg/kg bw/day
Allyl 3-cyclohexylpropionate	Inhalation				15 mg/m3
	Dermal				4,3 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation				5,83 mg/m3



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Dermal			0,00743 mg/kg bw/day	1,67 mg/kg bw/day
Cineole	Inhalation				2,71 mg/m3
(Z)-3-hexenyl salicylate	Dermal				0,77 mg/kg bw/day
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Inhalation				7,05 mg/m3
p-Mentha-1,4-diene	Dermal				2 mg/kg bw/day
4-Methyl-3-decen-5-ol	Inhalation				1,59 mg/m3
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Dermal				0,9 mg/kg bw/day
Citral	Inhalation				1,837 mg/m3
Trans-delta-damascone	Dermal				0,521 mg/kg bw/day
Pin-2(3)-ene	Inhalation				2,939 mg/m3
Bornan-2-one	Dermal				0,833 mg/kg bw/day
Oxydipropanol	Inhalation				0,88 mg/m3
	Dermal			0,05 mg/kg bw/day	0,5 mg/kg bw/day
	Inhalation			2,5 mg/kg bw/day	
	Dermal				9 mg/m3
	Inhalation				1,7 mg/kg bw/day
	Dermal				1,5 mg/m3
	Inhalation			0,116 mg/kg bw/day	2,1 mg/kg bw/day
	Dermal				3,8 mg/m3
	Inhalation				0,542 mg/kg bw/day
	Dermal				17,632 mg/m3
	Inhalation				10 mg/kg bw/day
	Dermal				84 mg/kg bw/day
	Inhalation				238 mg/m3

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
d-Limonene	Inhalation				16,6 mg/m3
	Dermal				4,8 mg/kg bw/day
	Oral				4,8 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation				0,68 mg/m3
	Oral				0,2 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Inhalation				9 mg/m3
	Dermal			0,38 mg/kg bw/day	17,2 mg/kg bw/day
	Oral				3 mg/kg bw/day
Linalool	Dermal	1.5 mg/kg bw		1.5 mg/kg bw/day	1.25 mg/kg bw/day
	Inhalation				4.33 mg/m3
	Oral				2.49 mg/kg bw/day
Allyl (3-methylbutoxy)acetate	Oral				0,5 mg/kg bw/day
	Dermal				0,87 mg/kg bw/day
1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	Inhalation				4,35 mg/m3



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	Dermal				2,5 mg/kg bw/day
	Oral				2,5 mg/kg bw/day
	Inhalation	26,74 mg/m3	10,7 mg/m3	8,91 mg/m3	3,57 mg/m3
	Dermal	15,38 mg/kg bw	6,15 mg/kg bw	5,13 mg/kg bw/day	2,05 mg/kg bw/day
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Oral		6,15 mg/kg bw		2,05 mg/kg bw/day
	Inhalation				0,29 mg/m3
Octahydro-2H-1-benzopyran-2-one	Dermal			0,005 mg/kg bw/day	0,083 mg/kg bw/day
	Oral				0,17 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Inhalation				1,9 mg/m3
	Dermal				1,1 mg/kg bw/day
	Oral				1,1 mg/kg bw/day
	Inhalation				5,8 mg/m3
[3R-(3 α ,3 α β ,6 α ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Dermal				1,67 mg/kg bw/day
	Oral				1,67 mg/kg bw/day
	Inhalation				4,7 mg/m3
	Dermal			1,22 mg/kg bw/day	2,7 mg/kg bw/day
Allyl (cyclohexyloxy)acetate	Oral				2,7 mg/kg bw/day
	Inhalation				0,557 mg/m3
2,6-Dimethyloct-7-en-2-ol	Dermal				0,16 mg/kg bw/day
	Oral				0,16 mg/kg bw/day
	Dermal				2,5 mg/kg bw/day
	Inhalation				4,35 mg/m3
3,7-Dimethylnona-1,6-dien-3-ol	Oral				2,5 mg/kg bw/day
	Inhalation		4,4 mg/m3		0,74 mg/m3
	Dermal	1,6 mg/kg bw	2,7 mg/kg bw	1,6 mg/kg bw/day	1,4 mg/kg bw/day
	Oral		1,3 mg/kg bw		0,2 mg/kg bw/day
Citronellol	Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3
	Dermal	2,950 mg/kg bw			196,4 mg/kg bw/day
Geraniol	Oral				13,8 mg/kg bw/day
	Inhalation				47,8 mg/m3
	Dermal				7,5 mg/kg bw/day
	Oral				13,75 mg/kg bw/day
(-)-Pin-2(10)-ene	Inhalation				1 mg/m3
	Dermal			0,027 mg/kg bw/day	0,3 mg/kg bw/day
Allyl 3-cyclohexylpropionate	Oral				0,3 mg/kg bw/day
	Inhalation				3,7 mg/m3
3-p-Cumenyl-2-methylpropionaldehyde	Dermal				2,1 mg/kg bw/day
	Oral				2,1 mg/kg bw/day
	Inhalation				1,45 mg/m3
	Dermal			0,00372 mg/kg bw/day	0,83 mg/kg bw/day
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Oral				0,83 mg/kg bw/day
	Inhalation				0,67 mg/m3
Cineole	Dermal				0,38 mg/kg bw/day
	Oral				0,38 mg/kg bw/day
	Inhalation				1,74 mg/m3



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

(Z)-3-hexenyl salicylate	Dermal Oral Inhalation				1 mg/kg bw/day 600 mg/kg bw/day 0,39 mg/m3
Reaction mass of 3,5-dimethylcyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	Dermal Oral Inhalation				0,45 mg/kg bw/day 0,23 mg/kg bw/day 0,543 mg/m3
p-Mentha-1,4-diene	Oral Dermal Inhalation				0,312 mg/kg bw/day 0,312 mg/kg bw/day 0,725 mg/m3
4-Methyl-3-decen-5-ol	Dermal Oral Inhalation				0,417 mg/kg bw/day 0,417 mg/kg bw/day 0,22 mg/m3
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Dermal Oral			0,02 mg/kg bw/day	0,25 mg/kg bw/day
Citral	Dermal Inhalation Oral			1,25 mg/kg bw/day	0,06 mg/kg bw/day
Trans-delta-damascone	Dermal Oral Inhalation			0,069 mg/kg bw/day	1 mg/kg bw/day 2,7 mg/m3 0,6 mg/kg bw/day
Pin-2(3)-ene	Dermal Oral Inhalation				1,25 mg/kg bw/day
Bornan-2-one	Dermal Oral Inhalation				0,25 mg/kg bw/day 0,43 mg/m3 0,674 mg/m3
Oxydipropanol	Dermal Inhalation Oral				0,225 mg/kg bw/day 0,225 mg/kg bw/day 4,348 mg/m3

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Cis-2-tert-butylcyclohexyl acetate	Water Sediment Intermittent water STP Soil	0,011 mg/l 1,5 mg/kg	0,0011 mg/l 0,15 mg/kg	0,017 mg/l 10 mg/l 0,293 mg/kg
d-Limonene	Water Sediment STP Soil Oral	0.014 mg/l 3.85 mg/kg	0.0014 mg/l 0.385 mg/kg	1.8 mg/l 0.763 mg/kg 133 mg/kg food
Linalyl acetate	Water Sediment Intermittent water STP Soil	0,011 mg/l 0,609 mg/kg	0,001 mg/l 0,061 mg/kg	0,11 mg/l 1 mg/l 0,115 mg/kg
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Water Sediment	0.025 mg/l 3,73 mg/kg	0.0025 mg/l 0,75 mg/kg	



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Linalool	Intermittent water			0,0013 mg/l
	STP			10 mg/l
	Soil			2.7 mg/kg
	Oral			26.7 mg/kg food
	Water	0,2 mg/l	0,02 mg/l	
Allyl (3-methylbutoxy)acetate	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	Water	0.00077 mg/l	0.00008 mg/l	
	Sediment	0.0089 mg/kg	0.0009 mg/kg	
	STP			0.0089 mg/l
	Soil			0.0013 mg/kg
	Water	0,022 mg/l	0,002 mg/l	
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	Sediment	0,218 mg/kg	0,022 mg/kg	
	Intermittent water			0,041 mg/l
	STP			1 mg/l
	Soil			2 mg/kg
	Oral			4,67 mg/kg food
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Water	0,013 mg/l	0,0013 mg/l	
	Sediment	1,48 mg/kg	0,148 mg/kg	
	STP			10 mg/l
	Soil			0,288 mg/kg
	Water	0,005 mg/l	0,001 mg/l	
Octahydro-2H-1-benzopyran-2-one	Sediment	0,057 mg/kg	0,006 mg/kg	
	STP			10 mg/l
	Soil			0,008 mg/kg
	Water	0,038 mg/l	0,0038 mg/l	
	Sediment	0,350 mg/kg	0,035 mg/kg	
(Ethoxymethoxy)cyclododecane	STP			32 mg/l
	Soil			0,048 mg/kg
	Water	0,0016 mg/l	0,00016 mg/l	
	Sediment	2,35 mg/kg	0,235 mg/kg	
	Intermittent water			0,016 mg/l
[3R-(3 α ,3 α β ,6 α ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	STP			100 mg/l
	Soil			0,468 mg/kg
	Oral			33,3 mg/kg food
	Water	0.00043 mg/l	0.000043 mg/l	
	Sediment	1.29 mg/kg	0.129 mg/kg	
Allyl (cyclohexyloxy)acetate	STP			100 mg/l
	Soil			0.257 mg/kg
	Water	0,00205 mg/l	0,000205 mg/l	
	Sediment	0,0387 mg/kg	0,00387 mg/kg	
	STP			0,3 mg/l
2,6-Dimethyloct-7-en-2-ol	Soil			0,375 mg/kg
	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
	Soil			0,103 mg/kg
	Oral			111 mg/kg food



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

3,7-Dimethylnona-1,6-dien-3-ol	Water	0,023 mg/l	0,0023 mg/l	
	Sediment	0,223 mg/kg	0,0223 mg/kg	
	Intermittent water			0,23 mg/l
	STP			10 mg/l
	Soil			0,031 mg/kg
4-tert-Butylcyclohexyl acetate	Oral			8,53 mg/kg food
	Water	0,0053 mg/l	0,00053 mg/l	
	Sediment	2,01 mg/kg	0,21 mg/kg	
	Intermittent water			0,053 mg/l
	STP			12,2 mg/l
Reaction products of (2,2,3-trimethylcyclopent-3-en-1-yl)acetaldehyde and butan-2-one, hydrogenated	Soil			0,42 mg/kg
	Oral			66,76 mg/kg food
	Water	0,0011 mg/l	0,00011 mg/l	
	Sediment	0,145 mg/kg	0,0145 mg/kg	
	STP			0,4 mg/l
Citronellol	Soil			0,0284 mg/kg
	Oral			66,67 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
Geraniol	STP			580 mg/l
	Soil			0,004 mg/kg
	Water	0,0108 mg/l	0,0010 mg/l	
	Sediment	0,115 mg/kg	0,0115 mg/kg	
	Intermittent water			0,108 mg/l
(-)-Pin-2(10)-ene	STP			0,7 mg/l
	Soil			0,0167 mg/kg
	Water	0,001 mg/l	0,0001 mg/l	
	Sediment	0,337 mg/kg	0,034 mg/kg	
	STP			3,26 mg/l
Allyl 3-cyclohexylpropionate	Soil			0,067 mg/kg
	Oral			13,1 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-Cumenyl-2-methylpropionaldehyde	STP			0,2 mg/l
	Soil			0,0047 mg/kg
	Oral			143 mg/kg food
	Water	0,00109 mg/l	0,00011 mg/l	
	Sediment	0,126 mg/kg	0,013 mg/kg	
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Intermittent water			0,01092 mg/l
	STP			1 mg/l
	Soil			0,025 mg/kg
	Oral			33,3 mg/kg food
	Water	0,00109 mg/l	0,0011 mg/l	
Cineole	Sediment	0,087 mg/kg	0,00867 mg/kg	
	STP			3,2 mg/l
	Soil			0,017 mg/kg
	Oral			6,67 mg/kg food
	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



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

(Z)-3-hexenyl salicylate	Soil			0,25 mg/kg
	Oral			40 mg/kg food
	Water	0,00061 mg/l	0,000061 mg/l	
	Sediment	0,11 mg/kg	0,011 mg/kg	
	Intermittent water			0,0061 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			0,022 mg/kg
	Oral			40 mg/kg food
	Water	0,0075 mg/l	0,00075 mg/l	
	Sediment	0,226 mg/kg	0,023 mg/kg	
p-Mentha-1,4-diene	STP			10 mg/l
	Soil			0,041 mg/kg
	Water	0,003 mg/l	0 mg/l	
	Sediment	0,49 mg/kg	0,049 mg/kg	
	STP			10 mg/l
4-Methyl-3-decen-5-ol	Soil			0,423 mg/kg
	Water	0,00076 mg/l	0,000076 mg/l	
	Sediment	0,092 mg/kg	0,0092 mg/kg	
	STP			10 mg/l
	Soil			0,018 mg/kg
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Oral			111,1 mg/kg food
	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
acetophenone	Water	0,0864 mg/l	0,00864 mg/l	
	Sediment	0,178 mg/kg	0,0178 mg/kg	
	Intermittent water			0,864 mg/l
	STP			10 mg/l
	Soil			0,155 mg/kg
Citral	Water	0,00678 mg/l	0,000678 mg/l	
	Sediment	0,125 mg/kg	0,0125 mg/kg	
	Intermittent water			0,0678 mg/l
	STP			1,6 mg/l
	Soil			0,0209 mg/kg
Trans-delta-damascone	Water	0,0074 mg/l	0,00074 mg/l	
	Sediment	0,958 mg/kg	0,0958 mg/kg	
	Intermittent water			0,0035 mg/l
	STP			2,41 mg/l
	Soil			0,187 mg/kg
Pin-2(3)-ene	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
Bornan-2-one	Water	0,0017 mg/l	0,00017 mg/l	
	Sediment	0,139 mg/kg	0,017 mg/kg	
	STP			1 mg/l
	Soil			0,013 mg/kg
	Water	0,1 mg/l	0,01 mg/l	
Oxydipropanol	Sediment	0,238 mg/kg	0,0238 mg/kg	
	Intermittent water			1 mg/l
	STP			1000 mg/l



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

	Soil Oral		0,0253 mg/kg 313 mg/kg food
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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. $\pm 0,5$ mm. Indication of permeation breakthrough time: not known.
- 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

*

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	: 92 °C	
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 220 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: < 0 °C	
Explosive properties	: Not explosive.	
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,7 (d-Limonene) Upper explosion limit in air (%): 6,5 (d-Limonene)
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: Not applicable.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: Not known.	
Relative vapour density	:	(air = 1)
Relative density (20°C)	: 0,904 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

*

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: > 2 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: > 3985 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.

Ingestion



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

- Acute toxicity : Calculated LD50: > 3110 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
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	
	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
Linalyl acetate	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) - 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
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	Skin irritation	Irritant	-----	-----
	Eye irritation - estimate	Non-irritant	QSAR	-----
	NOAEL (oral)	120 mg/kg bw/d	OECD 408	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development, oral)	480 mg/kg bw/d	OECD 414	Rat



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Linalool	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (fertility, oral)	> 300 mg/kg bw/d		Rat
	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
6,6-Dimethoxy-2,5,5-trimethylhex-2-ene	NOAEL (oral)	117 mg/kg bw/d	-----	Rat
	LD50 (oral)	> 8000 mg/kg bw	-----	Mouse
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	Skin sensitisation	Not sensitizing		Guinea pig
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	4100 ug/cm2	OECD 429	-----
	NOAEL (dermal)	> 300 mg/kg bw/d	-----	Rat
Octahydro-2H-1-benzopyran-2-one	NOAEL (development, oral)	> 500 mg/kg bw/d		Rat
	Skin irritation	Non-irritant		
	LD50 (oral)	3600 mg/kg bw	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	Skin irritation	Non-irritant		
	NOAEL (fertility, oral)	100 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	LD50 (oral)	3900 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	3500 mg/kg bw	OECD 402	Rabbit
	Skin irritation	Minimally irritant	OECD 404	Rabbit
(Ethoxymethoxy)cyclododecane	Eye irritation	Moderately irritant	OECD 405	Rabbit
	NOAEL (oral)	128 mg/kg bw/d	OECD 422	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 402	
	NOAEL (fertility, oral)	386 mg/kg bw/d	OECD 422	Rat
	Outdoor cleaners (excludes stone, concrete and similar surfaces)	386 mg/kg bw/d	OECD 422	Rat
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	OECD 405	Rabbit
	NOAEL (oral)	1000 mg/kg bw/d	OECD 422	Rat
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 422	Rat
	NOAEL (fertility, oral)	1000 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

[3R-(3 α ,3 α β ,6 α ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation) - estimate	> 13000 mg/m3	Read across	
	NOAEL (development) - estimate	1000 mg/kg.d	Read across	Rat
2,6-Dimethyloct-7-en-2-ol	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
3,7-Dimethylnona-1,6-dien-3-ol	Skin sensitisation	Not sensitizing		
	Skin irritation	Slightly irritant	-----	Rabbit
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit
4-tert-Butylcyclohexyl acetate	LD50 (oral)	5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit
	Eye irritation	Non-irritant		Rabbit
	Skin irritation	Non-irritant		Rabbit
Citronellol	NOAEL (oral) - estimate	710 mg/kg bw/d	Read across	
	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
Geraniol	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
	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
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

(-)-Pin-2(10)-ene	NOAEL (fertility, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
	LD50 (oral) - estimate	> 2000 mg/kg bw	Read across	Rat
	LD50 (dermal) - estimate	> 5000 mg/kg bw	Read across	Rabbit
Allyl 3-cyclohexylpropionate	Mutagenicity - estimate	Not mutagenic	Read across	Salmonella typhimurium
	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
	Skin sensitisation	Sensitizing.	OECD 406	
2-(2,2,7,7-Tetramethyltricyclo[6.2.1.0((1,6)]undec-5 and 4-en-5-yl)propan-1-ol	LD50 (oral)	> 2000 mg/kg bw	-----	
	LD50 (dermal)	> 2000 mg/kg bw	-----	
3-p-Cumenyl-2-methylpropionaldehyde	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
	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
	LD50 (dermal) - estimate	> 2150 mg/kg bw	Read across	Rat
	LD50 (oral)	> 2000 mg/kg bw	-----	Rat
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Skin irritation	Irritant	-----	-----
	Eye irritation - estimate	Non-irritant	Read across	Rabbit
	Skin sensitisation	305 ug/cm2	OECD 429	Mouse
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	NOAEL (development) - estimate	400 mg/kg.d	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	-----
	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		
Cineole	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	
	LD50 (oral) - estimate	> 5000 mg/kg bw	Read across	Rat
	Skin sensitisation - estimate	Sensitizing.	Read across	Mouse
	Mutagenicity - estimate	Not mutagenic	Read across	Salmonella typhimurium
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one				



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	NOAEL (oral) - estimate	42 mg/kg bw/d	Read across	Rat
	NOAEL (fertility) - estimate	120 mg/kg.d	Read across	Rat
	NOAEL (development) - estimate	120 mg/kg.d	Read across	Rat
	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
2,6-Dimethylhept-5-enal	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (oral) - estimate	150 mg/kg bw/d	Read across	Rat
	LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (oral)	300 mg/kg bw/d	-----	Rat
2,2,6-Trimethyl- α -propylcyclohexanepropanol	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rabbit
	Skin irritation - estimate	Non-irritant	Read across	
	Eye irritation	Moderately irritant		Rabbit
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	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	OECD 439	
	Eye irritation	Non-irritant	OECD 405	Rabbit
Citral	NOAEL (oral)	> 717 mg/kg bw/d	OECD 422	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Positive	OECD 473	-----
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 422	Rat
	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 422	Rat
	NOEL (carcinogenicity) - estimate	Not carcinogenic		
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Skin irritation	Moderately irritant		Rabbit
	Skin irritation	Irritant		Human
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (developmental toxicity, inh.)	423 mg/m3	-----	Rat
	NOEL (carcinogenicity, oral)	> 100 mg/kg bw/d	OECD 453	Rat



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

Trans-delta-damascone	Mutagenicity	Negative	OECD 471	
	LD50 (oral)	4960 mg/kg bw	-----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	833 mg/kg bw/d	-----	Rat
	LD50 (dermal)	2250 mg/kg bw	-----	Rabbit
	NOAEL (development, oral)	200 mg/kg bw/d	OECD 421	Rat
	LD50 (dermal) - estimate	> 5000 mg/kg bw	Read across	
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Skin irritation	Irritant	OECD 439	
	Skin sensitisation - estimate	Sensitizing.		
Pin-2(3)-ene	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	OECD 438	
	NOAEL (development) - estimate	> 30 mg/kg.d	Read across	Rat
	NOAEL (fertility, oral)	85 mg/kg bw/d	OECD 407	
	Skin sensitisation	Sensitizing.	-----	Guinea pig
	Skin irritation	Non-irritant	-----	Human
	NOAEL (fertility, oral)	749 mg/kg bw/d	OECD 421	Rat
Isoeugenol	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
	Skin sensitisation	498 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	-----	Human
	Skin irritation	Severely irritant		Rabbit
	NOEL (carcinogenicity, oral)	Not carcinogenic	-----	Rat
	Mutagenicity	Negative	-----	Salmonella typhimurium
	LC50 (inhalation) - estimate	1500 mg/m3		
	LD50 (dermal) - estimate	1912 mg/kg bw		
	LD50 (oral)	1560 mg/kg bw	-----	Rat

11.2. Information on other hazards

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

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12.1. Toxicity



No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 1 mg/l. Calculated EC50 (waterflea): 1 mg/l.
Contains 2 % 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 : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Cis-2-tert-butylcyclohexyl acetate	LC50 (fish)	5,6 mg/l	OECD 201	Brachydanio rerio
	EC50 (waterflea)	17 mg/l		Daphnia magna
	IC50 (algae)	4,2 mg/l		Desmodesmus subspicatus
	NOEC (algae)	0,57 mg/l		Desmodesmus subspicatus
	Ultimate aerobic biodegradation (%)	43 %	OECD 301 F	
	Log P(ow)	4,7	OECD 301 C	
	Ultimate aerobic biodegradation (%)	0 %		
	LC50 (fish)	1,3 mg/l	OECD 203	Lepomis macrochirus
	NOEC (fish)	2,2 mg/l	OECD 203	Lepomis macrochirus
	NOEC (fish)	0,16 mg/l.d	OECD 210	Brachydanio rerio
	EC50 (waterflea)	1,38 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,028 mg/l.d	OECD 211	Daphnia magna
	IC50 (algae)	> 2,6 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	5,23		
Allyl (3-methylbutoxy)acetate	BCF	391		
	IC50 (algae) - estimate	2,06 mg/l	----	----
	LC50 (fish) - estimate	0,77 mg/l	----	----
	EC50 (waterflea) - estimate	5,09 mg/l	----	----
	Ultimate aerobic biodegradation (%)	> 60 %	OECD 301 B	
	Log P(ow)	2,72		



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	NOEC (fish)	0,22 mg/l.d	OECD 210	Pimephales promelas
	Ultimate aerobic biodegradation (%)	3 %	OECD 301 C	
	IC50 (alga)	5,6 mg/l	OECD 201	Selenastrum capricornutum
	EC50 (waterflea)	5,9 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	4,1 mg/l	OECD 203	Oncorhynchus mykiss
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	NOEC (waterflea) - chronic	1,4 mg/l.d	OECD 202	Daphnia magna
	Log P(ow)	4,05		
	EC50 (waterflea)	8,3 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	> 4,6 mg/l	OECD 203	Oncorhynchus mykiss
	IC50 (alga)	28 mg/l	OECD 201	Pseudokirchnerella subcapitata
(Ethoxymethoxy)cyclododecane	Log P(ow)	2,4		
	LC50 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	1,6 mg/l	OECD 202	Daphnia magna
	NOEC (fish)	1,3 mg/l	OECD 203	Brachydanio rerio
	NOEC (waterflea) - acute	0,68 mg/l	OECD 202	Daphnia magna
[3R-(3 α ,3 α ,6 α ,7 β ,8 α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	IC50 (alga)	> 2 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	< 60	OECD 302 C	
	Log P(ow)	5,4		
	BCF	530		
	LC50 (fish)	0,43 mg/l	OECD 203	Cyprinus carpio
Allyl (cyclohexyloxy)acetate	EC50 (waterflea)	0,48 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	> 1,8 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	60 %	OECD 301 D	-----
	EC50 (waterflea)	11,3 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	3,2 mg/l.d	OECD 202	Daphnia magna
Reaction mass of 1-methyl-3-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde and 1-methyl-4-(4-methyl-3-pentenyl)cyclohex-3-ene-1-carbaldehyde	Ultimate aerobic biodegradation (%)	24 %	OECD 301 D	
	IC50 (alga)	69,2 mg/l	OECD 201	Pseudokirchnerella subcapitata
	LC50 (fish)	0,205 mg/l	OECD 203	Brachydanio rerio
	Log P(ow)	2,64		
	IC50 (alga)	1,8 mg/l	OECD 201	Pseudokirchnerella subcapitata
Reaction products of (2,2,3-trimethylcyclopent-3-en-1-yl)acetaldehyde and butan-2-one, hydrogenated	Ultimate aerobic biodegradation (%)	41 %	OECD 301 F	
	EC50 (waterflea)	0,15 mg/l	OECD 202	Daphnia magna
	EC50 (waterflea)	1,1 mg/l	OECD 202	Daphnia magna

(-)-Pin-2(10)-ene	LC50 (algae)	> 17 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	78 %	OECD 301 F	
	LC50 (fish)	2,3 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea) - estimate	> 0,1 mg/l		
	LC50 (fish) - estimate	> 0,1 mg/l		
Allyl 3-cyclohexylpropionate	Log P(ow)	4,35		
	LC50 (fish)	0,13 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	3,8 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	2,1 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	86 %	OECD 301 D	
2-(2,2,7,7-Tetramethyltricyclo[6.2.1.0((1,6)]undec-5 and 4-en-5-yl)propan-1-ol	Log P(ow)	4,12		
	BCF	861		
	LC50 (fish)	0,3 mg/l	-----	Cyprinus carpio
	IC50 (algae)	> 0,44 mg/l	-----	Pseudokirchnerella subcapitata
	EC50 (waterflea)	> 0,26 mg/l	-----	Daphnia magna
(±) trans—3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	Ultimate aerobic biodegradation (%)	1 %	-----	
	Log P(ow)	6,3		
	LC50 (fish)	1,2 mg/l	OECD 203	
	EC50 (waterflea)	1 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	7 %	OECD 301 C	
Trans-delta-damascone	Log P(ow)	4,99		
	LC50 (fish)	0,97 mg/l	OECD 203	Cryzias latipes
	NOEC (waterflea) - chronic	0,35 mg/l.d	OECD 211	Daphnia magna
	IC50 (algae)	4,54 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	16 %	OECD 301 C	
Pin-2(3)-ene	Log P(ow)	4,2		
	Ultimate aerobic biodegradation (%)	62 %	OECD 301 B	
	LC50 (fish)	0,28 mg/l	-----	Pimephales promelas
	EC50 (waterflea)	1,44 mg/l	-----	Daphnia magna
	Log P(ow)	4,32		

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. (d-Limonene ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers))

Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene ; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers))

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

ADR/RID/ADN (road/railway/inland waterways)

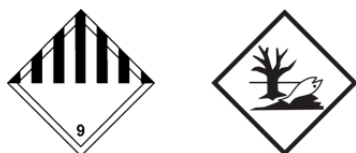
Class : 9

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 used (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	: The IMO International Code for construction and equipment of ships carrying dangerous chemicals in bulk.
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



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

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. 2 : Acute toxicity, Hazard Category 2.
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.
STOT SE 3 : Specific target organ toxicity after single exposure, category 3.
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.
H330 : Fatal 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.
H335 : May cause respiratory 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.

Country / Language code : EC / EN
Number format : "," used as decimal separator.

End of safety data sheet.