



**Safety Data Sheet dated 16/1/2025, version 10**

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

- 1.1. Product identifier  
Mixture identification:  
Trade name: FRESCA FOGLIA PINO  
Trade code: 16301
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
Car air freshener  
Uses advised against:  
Strictly adhere to the recommended uses.
- 1.3. Details of the supplier of the safety data sheet  
Supplier:  
Arexons S.p.A.  
via Antica di Cassano, 23, 20063  
Cernusco sul Naviglio (MI), Italy  
Arexons S.p.A.  
Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306  
Competent person responsible for the safety data sheet:  
arexons@arexons.it
- 1.4. Emergency telephone number  
Arexons S.p.A.  
Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306  
In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 111  
In Ireland: emergency number 112  
In South Africa: Poison Information Helpline 0861 555 777  
In Malta: emergency number 112

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**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP):  
⚠ Warning, Skin Irrit. 2, Causes skin irritation.  
⚠ Warning, Skin Sens. 1B, May cause an allergic skin reaction.  
⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.  
Adverse physicochemical, human health and environmental effects:  
No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

- H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

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P273 Avoid release to the environment.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with applicable regulations.

#### Special Provisions:

EUH208 Contains 2-Methylundecanal. May produce an allergic reaction.  
EUH208 Contains Dodecanal. May produce an allergic reaction.  
EUH208 Contains Coumarin. May produce an allergic reaction.  
EUH208 Contains Tetramethyl Acetyloctahydronaphthalenes. May produce an allergic reaction.  
EUH208 Contains Eugenol. May produce an allergic reaction.  
EUH208 Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.  
EUH208 Contains Alpha-pinene. May produce an allergic reaction.  
EUH208 Contains Cedarwood oil. May produce an allergic reaction.  
EUH208 Contains 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one.  
May produce an allergic reaction.  
EUH208 Contains Geranyl acetate. May produce an allergic reaction.  
EUH208 Contains 2,4-dimethylcyclohex-3-ene-1-carbaldehyde. May produce an allergic reaction.  
EUH208 Contains 3,7,7-trimethylbicyclo(4.1.0)hept-3-ene. May produce an allergic reaction.  
EUH208 Contains beta-Pinene. May produce an allergic reaction.

#### Contains

Para-ter-butylcyclohexyl acetato

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

stta	Name	Ident. Number	Classification
$\geq 7\% - < 10\%$	Para-ter-butylcyclohexyl acetato	CAS: 32210-23-4 EC: 250-954-9 REACH No.: 01-2119976286-24	⚠ 3.4.2/1B Skin Sens. 1B H317
$\geq 5\% - < 7\%$	2-TERT-BUTYLCYCLOHEXYL ACETATE	CAS: 88-41-5 EC: 201-828-7	⚠ 4.1/C2 Aquatic Chronic 2 H411
$\geq 5\% - < 7\%$	2-Methylundecanal	CAS: 110-41-8 EC: 203-765-0 REACH No.: 01-2119969443-29	⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.4.2/1B Skin Sens. 1B H317 ⚠ 4.1/A1 Aquatic Acute 1 H400 ⚠ 4.1/C1 Aquatic Chronic 1 H410
$\geq 5\% -$	3a,4,5,6,7,7a-	CAS: 68912-13-0	⚠ 4.1/C2 Aquatic Chronic 2 H411

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< 7%	hexahydro-4,7-methano-1H-indenyl propionate	EC: REACH No.:	272-805-7 01-2119969447-21	
>= 3% - < 5%	Menthol	CAS: EC: REACH No.:	2216-51-5 218-690-9 01-2119458866-21	⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319
>= 2% - < 3%	(1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol	CAS: EC: REACH No.:	464-45-9 207-353-1 01-2120759187-44	⚠ 2.7/2 Flam. Sol. 2 H228 ⚠ 3.2/2 Skin Irrit. 2 H315
>= 2% - < 3%	Dodecanal	CAS: EC: REACH No.:	112-54-9 203-983-6 01-2119969441-33	⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.4.2/1 Skin Sens. 1 H317
>= 1% - < 2%	Coumarin	CAS: EC: REACH No.:	91-64-5 202-086-7 01-2119943756-26	⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 2%	Tetramethyl Acetyloctahydronaphthalenes	CAS: EC: REACH No.:	54464-57-2 259-174-3 01-2119489989-04	⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.4.2/1B Skin Sens. 1B H317 ⚠ 4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 2%	Eugenol	CAS: EC: REACH No.:	97-53-0 202-589-1 01-2119971802-33	⚠ 3.4.2/1B Skin Sens. 1B H317 ⚠ 3.3/2 Eye Irrit. 2 H319
>= 1% - < 2%	Tujone	CAS: EC:	546-80-5 208-912-2	⚠ 3.1/4/Oral Acute Tox. 4 H302
>= 1% - < 2%	(R)-p-mentha-1,8-diene; d-limonene	Index number: CAS: EC: REACH No.:	601-096-00-2 5989-27-5 227-813-5 01-2119529223-47	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.4.2/1 Skin Sens. 1 H317 4.1/C3 Aquatic Chronic 3 H412 ⚠ 4.1/A1 Aquatic Acute 1 H400
>= 1% - < 2%	Pogostemon Cablin Oil (Patchouli Essence)	CAS: EC: REACH No.:	8014-09-3 282-493-4 01-2119967775-18	⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 4.1/C2 Aquatic Chronic 2 H411

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>= 0,5% - < 1%	CAMPHENE	CAS: 79-92-5 EC: 201-234-8 REACH No.: 01-2119446293-40	<div> <div></div> <div>2.7/1 Flam. Sol. 1 H228</div> </div> <div> <div></div> <div>4.1/A1 Aquatic Acute 1 H400</div> </div> <div> <div></div> <div>3.3/2 Eye Irrit. 2 H319</div> </div> <div> <div></div> <div>4.1/C1 Aquatic Chronic 1 H410</div> </div>
>= 0,5% - < 1%	Alpha-pinene	CAS: 80-56-8 EC: 201-291-9 REACH No.: 01-2119519223-49	<div> <div></div> <div>2.6/3 Flam. Liq. 3 H226</div> </div> <div> <div></div> <div>3.4.2/1 Skin Sens. 1 H317</div> </div> <div> <div></div> <div>3.1/4/Oral Acute Tox. 4 H302</div> </div> <div> <div></div> <div>3.2/2 Skin Irrit. 2 H315</div> </div> <div> <div></div> <div>4.1/A1 Aquatic Acute 1 H400</div> </div> <div> <div></div> <div>3.10/1 Asp. Tox. 1 H304</div> </div> <div> <div></div> <div>4.1/C1 Aquatic Chronic 1 H410</div> </div>
>= 0,5% - < 1%	Cedarwood oil	CAS: 8000-27-9 EC: 285-370-3	<div> <div></div> <div>3.2/2 Skin Irrit. 2 H315</div> </div> <div> <div></div> <div>3.4.2/1B Skin Sens. 1B H317</div> </div> <div> <div></div> <div>3.10/1 Asp. Tox. 1 H304</div> </div> <div> <div></div> <div>4.1/C2 Aquatic Chronic 2 H411</div> </div>
>= 0,25% - < 0,5%	1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	CAS: 68155-67-9 EC: 268-979-9 REACH No.: 01-2119489989-04	<div> <div></div> <div>4.1/C1 Aquatic Chronic 1 H410</div> </div> <div> <div></div> <div>3.2/2 Skin Irrit. 2 H315</div> </div> <div> <div></div> <div>3.4.2/1 Skin Sens. 1 H317</div> </div>
>= 0,25% - < 0,5%	Geranyl acetate	CAS: 105-87-3 EC: 203-341-5 REACH No.: 01-2119973480-35	<div> <div></div> <div>4.1/C3 Aquatic Chronic 3 H412</div> </div> <div> <div></div> <div>3.2/2 Skin Irrit. 2 H315</div> </div> <div> <div></div> <div>3.4.2/1B Skin Sens. 1B H317</div> </div>
>= 0,25% - < 0,5%	2,4-dimethylcyclohex-3-ene-1-carbaldehyde	CAS: 68039-49-6 EC: 943-728-2 REACH No.: 01-2119982384-28	<div> <div></div> <div>3.2/2 Skin Irrit. 2 H315</div> </div> <div> <div></div> <div>3.4.2/1B Skin Sens. 1B H317</div> </div> <div> <div></div> <div>4.1/C2 Aquatic Chronic 2 H411</div> </div>
>= 0,1% - < 0,25%	3,7,7-trimetilbicio(4.1.0)ep-3-ene	CAS: 13466-78-9 EC: 236-719-3	<div> <div></div> <div>2.6/3 Flam. Liq. 3 H226</div> </div> <div> <div></div> <div>4.1/A1 Aquatic Acute 1 H400</div> </div> <div> <div></div> <div>4.1/C1 Aquatic Chronic 1 H410</div> </div> <div> <div></div> <div>3.10/1 Asp. Tox. 1 H304</div> </div> <div> <div></div> <div>3.2/2 Skin Irrit. 2 H315</div> </div> <div> <div></div> <div>3.4.2/1-1A-1B Skin Sens. 1,1A, 1B H317</div> </div>
>= 0,1% - < 0,25%	beta-Pinene	CAS: 127-91-3 EC: 242-060-2 REACH No.: 01-2119519230-54	<div> <div></div> <div>2.6/3 Flam. Liq. 3 H226</div> </div> <div> <div></div> <div>4.1/A1 Aquatic Acute 1 H400</div> </div> <div> <div></div> <div>3.2/2 Skin Irrit. 2 H315</div> </div> <div> <div></div> <div>3.4.2/1B Skin Sens. 1B H317</div> </div> <div> <div></div> <div>3.10/1 Asp. Tox. 1 H304</div> </div> <div> <div></div> <div>4.1/C1 Aquatic Chronic 1 H410</div> </div>
>= 0,01% - < 0,02%	Linalool	CAS: 78-70-6 EC: 201-134-4 REACH No.: 01-2119474016-42	The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).



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#### **SECTION 4: First aid measures**

##### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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#### **SECTION 5: Firefighting measures**

##### 5.1. Extinguishing media

Appropriate Extinguishing Media:

To water.

To carbon dioxide.

Carbon dioxide (CO<sub>2</sub>).

Water.

Not Recommended Extinguishing Media:

None in particular.

##### 5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Do not inhale explosion and combustion gases.

##### 5.3. Advice for firefighters

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

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#### **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

##### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Suitable material for taking up: absorbing material, organic, sand

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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- Retain contaminated washing water and dispose it.
- 6.3. Methods and material for containment and cleaning up  
Wash with plenty of water.
- 6.4. Reference to other sections  
See also section 8 and 13

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#### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Do not eat, drink or smoke when using this product.
- 7.2. Conditions for safe storage, including any incompatibilities  
Do not store this material near food and drinks.  
Keep away from food, drink and feed.  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.
- 7.3. Specific end use(s)  
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#### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
Alpha-pinene - CAS: 80-56-8  
ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr
- 3,7,7-trimethylbicyclo(4.1.0)hept-3-ene - CAS: 13466-78-9  
ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr
- beta-Pinene - CAS: 127-91-3  
ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr
- DNEL Exposure Limit Values  
Tetramethyl Acetyloctahydronaphthalenes - CAS: 54464-57-2  
Worker Professional: 0.1011 03 - Exposure: Human Dermal - Frequency: Short Term, local effects  
Worker Professional: 1.73 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Worker Professional: 1.76 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-67-9  
Worker Professional: 0.1011 03 - Exposure: Human Dermal - Frequency: Short Term, local effects  
Worker Professional: 1.73 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Worker Professional: 1.76 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- Geranyl acetate - CAS: 105-87-3  
Worker Professional: 62.59 mg/m<sup>3</sup> - Consumer: 15.4 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Professional: 35.5 mg/kg - Consumer: 17.75 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 8.9 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- PNEC Exposure Limit Values  
Tetramethyl Acetyloctahydronaphthalenes - CAS: 54464-57-2  
Target: Fresh Water - Value: 0.0028 mg/l  
Target: Marine water - Value: 0.00028 mg/l

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Target: Freshwater sediments - Value: 3.73 mg/kg  
 Target: Marine water sediments - Value: 0.75 mg/kg  
 Target: Soil (agricultural) - Value: 0.705 mg/kg  
 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-67-9  
 Target: Fresh Water - Value: 0.0028 mg/l  
 Target: Marine water - Value: 0.00028 mg/l  
 Target: Freshwater sediments - Value: 3.73 mg/kg  
 Target: Marine water sediments - Value: 0.75 mg/kg  
 Target: Soil (agricultural) - Value: 0.705 mg/kg  
 Geranyl acetate - CAS: 105-87-3  
 Target: Fresh Water - Value: 3.72 mg/l  
 Target: Marine water - Value: 0.372 mg/l  
 Target: 09 - Value: 8 mg/l  
 Target: Freshwater sediments - Value: 0.442 mg/kg  
 Target: Marine water sediments - Value: 0.0442 mg/kg

#### 8.2. Exposure controls

##### Eye protection:

Eye glasses with side protection.  
 Compliant with EN 166

##### Protection for skin:

No special precaution must be adopted for normal use.

##### Protection for hands:

Compliant with EN 374.  
 Thickness: Cuff 0.10 mm; Palm 0.12 mm; Fingers 0.145 mm

##### Respiratory protection:

Not required under normal conditions of use.

##### Thermal Hazards:

None

##### Environmental exposure controls:

None

##### Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Light yellow	arx1	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	>60	Internal method	--



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Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	<= 20,5 mm <sup>2</sup> /sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0,969 g/cm <sup>3</sup>	Internal method	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information  
No other relevant information

## SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable at normal ambient temperatures and when used as recommended.
- 10.3. Possibility of hazardous reactions
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.

## SECTION 11: Toxicological information

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

Toxicological information of the product:

FRESCA FOGLIA PINO - DEODORANTE IN CARTONFELTRO

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met



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- d) respiratory or skin sensitisation  
The product is classified: Skin Sens. 1B H317
- e) germ cell mutagenicity  
Not classified  
Based on available data, the classification criteria are not met
- f) carcinogenicity  
Not classified  
Based on available data, the classification criteria are not met
- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
- h) STOT-single exposure  
Not classified  
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
- j) aspiration hazard  
Not classified  
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Para-ter-butilcicloesil acetato - CAS: 32210-23-4

a) acute toxicity:

Test: LD50 3370 mg/kg

d) respiratory or skin sensitisation:

1.2 %

2-TERT-BUTYLCYCLOHEXYL ACETATE - CAS: 88-41-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4600 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: esseri umani Negative - Duration: 48h

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: esseri umani Negative - Duration: 48h

2-Methylundecanal - CAS: 110-41-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 10000 mg/kg

Menthol - CAS: 2216-51-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 2602 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Dodecanal - CAS: 112-54-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 23100 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Coumarin - CAS: 91-64-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 293 mg/kg

Tetramethyl Acetyloctahydronaphthalenes - CAS: 54464-57-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

(R)-p-mentha-1,8-diene; d-limonene - CAS: 5989-27-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 4400 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LD50 - Route: Oral - Species: Mouse 5600 mg/kg

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Pogostemon Cablin Oil (Patchouli Essence) - CAS: 8014-09-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Alpha-pinene - CAS: 80-56-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 2100 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 5005 mg/kg

Geranyl acetate - CAS: 105-87-3

a) acute toxicity:

Test: LD50 - Route: Oral > 6000 mg/kg

beta-Pinene - CAS: 127-91-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4700 mg/kg

Linalool - CAS: 78-70-6

a) acute toxicity:

Test: LD50 - Route: Skin > 5000 mg/kg

Test: LD50 - Route: Oral = 2790 mg/kg

Test: LC50 - Route: Inhalation = 50 mg/l

#### 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

2-TERT-BUTYLCYCLOHEXYL ACETATE - CAS: 88-41-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 14.9 mg/l - Duration h: 48

Endpoint: EC50 - Species: Fish = 14.9 mg/l

2-Methylundecanal - CAS: 110-41-8

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 11 mg/l - Duration h: 48

Dodecanal - CAS: 112-54-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 2.6 mg/l - Duration h: 96

Coumarin - CAS: 91-64-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 293 mg/kg

Tetramethyl Acetyloctahydronaphthalenes - CAS: 54464-57-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 1.30 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 1.38 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 2.6 mg/l - Duration h: 72

(R)-p-mentha-1,8-diene; d-limonene - CAS: 5989-27-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.72 mg/l - Duration h: 96

Endpoint: EC50 - Species: Fish 0.688 mg/l - Duration h: 96

Alpha-pinene - CAS: 80-56-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.28 mg/l - Duration h: 96

Geranyl acetate - CAS: 105-87-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 68.12 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 14.1 mg/l - Duration h: 48

### 12.2. Persistence and degradability

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- None  
N.A.
- 12.3. Bioaccumulative potential  
N.A.
- 12.4. Mobility in soil  
N.A.
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties  
No endocrine disruptor substances present in concentration  $\geq 0.1\%$
- 12.7. Other adverse effects  
None

#### SECTION 13: Disposal considerations

- 13.1. Waste treatment methods  
Recover if possible. In so doing, comply with the local and national regulations currently in force.
- Additional disposal information:  
The leftover product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal facilities or incineration under controlled conditions. Packaging can be taken to separate collection if emptied of its contents, checking the regulations of your municipality. Otherwise, it is always necessary to take it to an authorised centre or recycling point in your municipality.

#### SECTION 14: Transport information



- 14.1. UN number or ID number  
ADR-UN Number: 3077  
IATA-UN Number: 3077  
IMDG-UN Number: 3077
- 14.2. UN proper shipping name  
ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.((R)-p-mentha-1,8-diene; d-limonene, 2-Methylundecanal)  
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.((R)-p-mentha-1,8-diene; d-limonene, 2-Methylundecanal)  
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.((R)-p-mentha-1,8-diene; d-limonene, 2-Methylundecanal)
- 14.3. Transport hazard class(es)  
ADR-Class: 9  
ADR - Hazard identification number: 90  
IATA-Class: 9  
IATA-Label: 9  
IMDG-Class: 9
- 14.4. Packing group  
ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III
- 14.5. Environmental hazards  
ADR-Enviromental Pollutant: Yes

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IMDG-Marine pollutant: Marine Pollutant  
IMDG-EmS: F-A,  
S-F

- 14.6. Special precautions for user
- ADR-Subsidiary hazards: -
  - ADR-S.P.: 274 335 375 601
  - ADR-Transport category (Tunnel restriction code): 3 (-)
  - IATA-Passenger Aircraft: 956
  - IATA-Subsidiary hazards: -
  - IATA-Cargo Aircraft: 956
  - IATA-S.P.: A97 A158 A179 A197 A215
  - IATA-ERG: 9L
  - IMDG-Subsidiary hazards: -
  - IMDG-Stowage and handling: Category A SW23
  - IMDG-Segregation: -
- 14.7. Maritime transport in bulk according to IMO instruments
- N.A.
- Limited Quantity: 5 kg
- Exempted Quantity: E1

## SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) n. 2020/878
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
  - Regulation (EU) n. 618/2012 (ATP 3 CLP)
  - Regulation (EU) n. 487/2013 (ATP 4 CLP)
  - Regulation (EU) n. 944/2013 (ATP 5 CLP)
  - Regulation (EU) n. 605/2014 (ATP 6 CLP)
  - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
  - Regulation (EU) n. 2016/918 (ATP 8 CLP)
  - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
  - Regulation (EU) n. 2017/776 (ATP 10 CLP)
  - Regulation (EU) n. 2018/669 (ATP 11 CLP)
  - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
  - Regulation (EU) n. 2019/521 (ATP 12 CLP)
  - Regulation (EU) n. 2020/217 (ATP 14 CLP)
  - Regulation (EU) n. 2020/1182 (ATP 15 CLP)
  - Regulation (EU) n. 2021/643 (ATP 16 CLP)
  - Regulation (EU) n. 2021/849 (ATP 17 CLP)
  - Regulation (EU) n. 2022/692 (ATP 18 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
- Restrictions related to the product:
    - Restriction 3
  - Restrictions related to the substances contained:
    - Restriction 40
    - Restriction 75

Volatile Organic compounds - VOCs = 7.10 %  
Volatile Organic compounds - VOCs = 71.00 g/Kg  
Volatile Organic compounds - VOCs = 68.80 g/l  
Where applicable, refer to the following regulatory provisions :

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Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):  
Seveso III category according to Annex 1, part 1  
Product belongs to category: E2

15.2. Chemical safety assessment  
No Chemical Safety Assessment has been carried out for the mixture.  
Substances for which a Chemical Safety Assessment has been carried out:  
None

#### SECTION 16: Other information

Text of phrases referred to under heading 3:

- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
- H315 Causes skin irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H319 Causes serious eye irritation.
- H228 Flammable solid.
- H302 Harmful if swallowed.
- H412 Harmful to aquatic life with long lasting effects.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Flam. Sol. 1	2.7/1	Flammable solid, Category 1
Flam. Sol. 2	2.7/2	Flammable solid, Category 2
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 2: Hazards identification  
SECTION 3: Composition/information on ingredients  
SECTION 4: First aid measures  
SECTION 5: Firefighting measures  
SECTION 6: Accidental release measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 13: Disposal considerations  
SECTION 15: Regulatory information  
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Skin Sens. 1B, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

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	Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.