

Safety Data Sheet dated 26/8/2022, version 8

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: 16391

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

Recommended use:

Car air freshener

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: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 -

22:00)

In South Africa: Poison Information Helpline 0861 555 777

In Malta: emergency number 112

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 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 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one. 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 2,4-dimethylcyclohex-3-ene-1-carbaldehyde. May produce an allergic reaction.

EUH208 Contains Geranyl acetate. May produce an allergic reaction.

EUH208 Contains 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one. May produce an allergic reaction.

EUH208 Contains (-)-Pin-2(10)-ene. May produce an allergic reaction.

EUH208 Contains 3,7,7-trimetilbiciclo(4.1.0)ept-3-ene. May produce an allergic reaction.

Contains

PARA-TERT-BUTYLCYCLOHEXYL ACETATE

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 >= 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:

>= 7% - < 10% PARA-TERT-BUTYLCYCLOHEXYL ACETATE

REACH No.: 01-2119976286-24, CAS: 32210-23-4, EC: 250-954-9

3.4.2/1B Skin Sens. 1B H317

>= 5% - < 7% 2-TERT-BUTYLCYCLOHEXYL ACETATE

CAS: 88-41-5, EC: 201-828-7

4.1/C2 Aquatic Chronic 2 H411

>= 5% - < 7% 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl propionate

REACH No.: 01-2119969447-21, CAS: 68912-13-0, EC: 272-805-7

4.1/C2 Aquatic Chronic 2 H411

>= 3% - < 5% I-menthol

REACH No.: 01-2119458866-21, CAS: 2216-51-5, EC: 218-690-9

4 3.2/2 Skin Irrit. 2 H315

◆ 3.3/2 Eye Irrit. 2 H319

>= 3% - < 5% 2-Methylundecanal

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REACH No.: 01-2119969443-29, CAS: 110-41-8, EC: 203-765-0

- 1 3.2/2 Skin Irrit. 2 H315
- 4.1/A1 Aquatic Acute 1 H400
- 4.1/C1 Aquatic Chronic 1 H410

>= 2% - < 3% (1S-endo)-1,7,7-trimethylbicyclo[2.2.1]heptan-2-ol

REACH No.: 01-2120759187-44, CAS: 464-45-9, EC: 207-353-1

- 2.7/2 Flam, Sol. 2 H228
- ◆ 3.2/2 Skin Irrit. 2 H315

>= 2% - < 3% Patchouli Oil

REACH No.: 01-2120766170-60, EC: 939-227-3

- ♦ 3.10/1 Asp. Tox. 1 H304
- 4.1/C2 Aquatic Chronic 2 H411

>= 2% - < 3% Dodecanal

REACH No.: 01-2119969441-33, CAS: 112-54-9, EC: 203-983-6

- 4 3.2/2 Skin Irrit. 2 H315
- 4 3.3/2 Eye Irrit. 2 H319
- ◆ 3.4.2/1 Skin Sens. 1 H317

>= 2% - < 3% Thuyone

CAS: 546-80-5, EC: 208-912-2

3.1/4/Oral Acute Tox. 4 H302

>= 1% - < 2% Coumarin

REACH No.: 01-2119943756-26, CAS: 91-64-5, EC: 202-086-7

- ◆ 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% Eugenol

REACH No.: 01-2119971802-33, CAS: 97-53-0, EC: 202-589-1

- 3.4.2/1B Skin Sens. 1B H317
- ◆ 3.3/2 Eye Irrit. 2 H319

>= 1% - < 2% (R)-p-mentha-1,8-diene; d-limonene

REACH No.: 01-2119529223-47, Index number: 601-029-00-7, CAS: 5989-27-5, EC: 227-813-5

- 4.1/A1 Aquatic Acute 1 H400
- 2.6/3 Flam. Liq. 3 H226
- 4.1/C1 Aquatic Chronic 1 H410
- 4 3.2/2 Skin Irrit. 2 H315
- ◆ 3.4.2/1 Skin Sens. 1 H317

>= 0.5% - < 1% Alpha-pinene

REACH No.: 01-2119519223-49, CAS: 80-56-8, EC: 201-291-9

- ◆ 2.6/3 Flam. Liq. 3 H226
- 1 3.4.2/1 Skin Sens. 1 H317
- ◆ 3.1/4/Oral Acute Tox. 4 H302
- ◆ 3.2/2 Skin Irrit. 2 H315
- 4.1/A1 Aquatic Acute 1 H400
- ♦ 3.10/1 Asp. Tox. 1 H304
- 4.1/C1 Aquatic Chronic 1 H410

>= 0.5% - < 1% CAMPHENE

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REACH No.: 01-2119446293-40, CAS: 79-92-5, EC: 201-234-8

- ◆ 2.7/1 Flam. Sol. 1 H228
- 1 3.3/2 Eye Irrit. 2 H319
- 4.1/C1 Aquatic Chronic 1 H410
- >= 0.5% < 1% 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one REACH No.: 01-2119489989-04. CAS: 54464-57-2. EC: 259-174-3
 - 3.2/2 Skin Irrit. 2 H315
 - ◆ 3.4.2/1B Skin Sens. 1B H317
 - 4.1/C1 Aquatic Chronic 1 H410
- >= 0.25% < 0.5% 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one CAS: 68155-66-8, EC: 268-978-3
 - 1 3.2/2 Skin Irrit. 2 H315
 - ◆ 3.4.2/1B Skin Sens. 1B H317
 - 4.1/C1 Aquatic Chronic 1 H410
- >= 0.25% < 0.5% Geranyl acetate

REACH No.: 01-2119973480-35, CAS: 105-87-3, EC: 203-341-5

- 4.1/C3 Aquatic Chronic 3 H412
- 1 3.2/2 Skin Irrit. 2 H315
- 3.4.2/1B Skin Sens. 1B H317
- >= 0.25% < 0.5% 2,4-dimethylcyclohex-3-ene-1-carbaldehyde

REACH No.: 01-2119982384-28, CAS: 68039-49-6, EC: 943-728-2

- 1 3.2/2 Skin Irrit. 2 H315
- ◆ 3.4.2/1B Skin Sens. 1B H317
- 4.1/C2 Aquatic Chronic 2 H411
- $>= 0.25\% \ < 0.5\% \ 1 (1,2,3,4,6,7,8,8 a-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one$

CAS: 68155-67-9, EC: 268-979-9

- 3.4.2/1B Skin Sens. 1B H317
- 4.1/C1 Aquatic Chronic 1 H410
- 3.2/2 Skin Irrit. 2 H315
- >= 0.1% < 0.25% (-)-Pin-2(10)-ene

REACH No.: 01-2119519230-54, CAS: 127-91-3, EC: 242-060-2

- 2.6/3 Flam. Liq. 3 H226
- 4.1/A1 Aquatic Acute 1 H400
- 1.2/2 Skin Irrit. 2 H315
- 3.4.2/1B Skin Sens. 1B H317
- 3.10/1 Asp. Tox. 1 H304
- 4.1/C1 Aquatic Chronic 1 H410
- >= 0.1% < 0.25% 3,7,7-trimetilbiciclo(4.1.0)ept-3-ene

REACH No.: 01-2119520252-55, CAS: 498-15-7, EC: 236-719-3

- 4.1/A1 Aquatic Acute 1 H400
- 4.1/C1 Aquatic Chronic 1 H410
- ♦ 3.10/1 Asp. Tox. 1 H304
- 4 3.2/2 Skin Irrit. 2 H315
- ◆ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

>= 0.05% - < 0.1% Alpha-cedrene

CAS: 469-61-4, EC: 207-418-4

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- ♦ 3.10/1 Asp. Tox. 1 H304
- 4.1/A1 Aquatic Acute 1 H400 M=10.
- ♦ 4.1/C1 Aquatic Chronic 1 H410 M=10.

>= 0.01% - < 0.02% Linalool

REACH No.: 01-2119474016-42, CAS: 78-70-6, EC: 201-134-4

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

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 opthalmologist immediately.

Protect uninjured eve.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

To water.

To carbon dioxide.

Not Recommended Extinguishing Media:

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

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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.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand

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

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:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

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)

Profumatore per piccoli spazi

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

(-)-Pin-2(10)-ene - CAS: 127-91-3

ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr

3,7,7-trimetilbiciclo(4.1.0)ept-3-ene - CAS: 498-15-7

ACGIH - TWA(8h): 20 ppm - Notes: DSEN, A4 - Lung irr

DNEL Exposure Limit Values

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - 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/m3 - Exposure: Human Inhalation - Frequency: Short Term,

systemic effects

1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-66-8

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/m3 - Exposure: Human Inhalation - Frequency: Short Term,

systemic effects

Geranyl acetate - CAS: 105-87-3

Worker Professional: 62.59 mg/m3 - Consumer: 15.4 mg/m3 - 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

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/m3 - Exposure: Human Inhalation - Frequency: Short Term,

systemic effects

PNEC Exposure Limit Values

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 54464-57-2

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

1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-66-8

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

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

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.

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:	Colourless			
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:	N.A.			
Auto-ignition temperature:	N.A.			
Decomposition temperature:	N.A.			
pH:	N.A.			
Kinematic viscosity:	N.A.			
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:	0,959-0,979			
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.

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- 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 TRIS 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

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:

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

I-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

2-Methylundecanal - CAS: 110-41-8

a) acute toxicity:

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



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Test: LD50 - Route: Skin - Species: Rabbit > 10000 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
      (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
      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
      1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - 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
      1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-66-8
      a) acute toxicity:
            Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
            Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg
      Geranyl acetate - CAS: 105-87-3
      a) acute toxicity:
             Test: LD50 - Route: Oral > 6000 mg/kg
      (-)-Pin-2(10)-ene - CAS: 127-91-3
      a) acute toxicity:
             Test: LD50 - Route: Oral - Species: Rat = 4700 mg/kg
      Alpha-cedrene - CAS: 469-61-4
      a) acute toxicity:
            Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
            Test: LD50 - Route: Skin - Species: Rabbit > 5000 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:
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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

No endocrine disruptor substances present in concentration >= 0.1%

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 (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

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one-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

1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-66-8

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 2.60 mg/l - Duration h: 72

Endpoint: NOEC - Species: Fish 0.16 mg/l

Geranyl acetate - CAS: 105-87-3

a) Aquatic acute toxicity:

b) Aquatic chronic toxicity:

Endpoint: LC50 - Species: Fish 68.12 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia 14.1 mg/l - Duration h: 48

Alpha-cedrene - CAS: 469-61-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 0.05 mg/kg

12.2. Persistence and degradability

None

1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 68155-66-8 Biodegradability: Non-readily biodegradable - Duration: 28gg - %: 0

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 >= 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:

Reuse if possible. Act in accordance with the local and national laws in force.

SECTION 14: Transport information





14.1. UN number or ID number

ADR-UN Number: 3082 IATA-UN Number: 3082 IMDG-UN Number: 3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.((R)-p-mentha-1,8-diene; d-limonene,

2-Methylundecanal)

IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.((R)-p-mentha-1,8-diene; d-limonene,

2-Methylundecanal)

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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

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: 964
IATA-Subsidiary hazards: IATA-Cargo Aircraft: 964

IATA-S.P.: A97 A158 A197 A215

IATA-ERG: 9L IMDG-Subsidiary hazards: -

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

14.7. Maritime transport in bulk according to IMO instruments

N.A

Limited Quantity: 5 L 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)



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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)
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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:

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restriction 40 Restriction 75

Volatile Organic compounds - VOCs = 1.10 % Volatile Organic compounds - VOCs = 11.00 g/Kg Volatile Organic compounds - VOCs = 10.66 g/l

Where applicable, refer to the following regulatory provisions:

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.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H228 Flammable solid.

H304 May be fatal if swallowed and enters airways.

H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

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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

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 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

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

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.