Safety Data Sheet
FRESCA FOGLIA POUR HOMME (TRIS)

Safety Data Sheet dated 8/7/2021, version 7

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

1.1. Product identifier

Mixture identification:

Trade name: FRESCA FOGLIA POUR HOMME (TRIS)

Trade code: 1808

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, Eye Irrit. 2, Causes serious eye 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.

H319 Causes serious eye 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.
P273 Avoid release to the environment.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains 3,7-dimethyl-3-octanol. May produce an allergic reaction.
EUH208 Contains 2-Methylundecanal. May produce an allergic reaction.
EUH208 Contains Eugenol. May produce an allergic reaction.
EUH208 Contains citral. 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 CITRONELLOL. May produce an allergic reaction.
EUH208 Contains Linalool. May produce an allergic reaction.
EUH208 Contains 2,4-dimethylcyclohex-3-ene-1-carbaldehyde. 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 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 Linalyl acetate. May produce an allergic reaction.
EUH208 Contains Cinnamal. 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:

>= 10% - < 12.5% 2,6-dimethyloct-7-en-2-ol

REACH No.: 01-2119457274-37, CAS: 18479-58-8, EC: 242-362-4
3.2/2 Skin Irrit. 2 H315
3.3/2 Eye Irrit. 2 H319

>= 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% 3,7-dimethyl-3-octanol

REACH No.: 01-2119454788-21, CAS: 78-69-3, EC: 201-133-9
3.2/2 Skin Irrit. 2 H315
3.4.2/1B Skin Sens. 1B H317
3.3/2 Eye Irrit. 2 H319

>= 2% - < 3% ISOBUTYL SALICYLATE
REACH No.: 01-2120767470-53, CAS: 87-19-4, EC: 201-729-9
3.1/4/Oral Acute Tox. 4 H302
4.1/C1 Aquatic Chronic 1 H410

>= 2% - < 3% METHYL IONONE
REACH No.: 01-2119471851-35, CAS: 1335-46-2, EC: 215-635-0
3.2/2 Skin Irrit. 2 H315
3.3/2 Eye Irrit. 2 H319
4.1/C2 Aquatic Chronic 2 H411

>= 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% ALLYL AMYL GLYCOLATE
CAS: 67634-00-8, EC: 266-803-5
3.1/4/Oral Acute Tox. 4 H302
3.2/2 Skin Irrit. 2 H315

>= 2% - < 3% tetrahydro-2-isobutyl-4-methylpyran-4-ol
REACH No.: 01-2119455547-30, Index number: 603-101-00-3, CAS: 63500-71-0, EC: 405-040-6
3.3/2 Eye Irrit. 2 H319

>= 2% - < 3% BENZYL ACETATE
REACH No.: 01-2119638272-42, CAS: 140-11-4, EC: 205-399-7
4.1/C3 Aquatic Chronic 3 H412

>= 1% - < 2% ALPHA-ISOMETHYL IONONE
CAS: 127-51-5, EC: 204-846-3
4.1/C2 Aquatic Chronic 2 H411 M=1.

>= 0.5% - < 1% 2-Methylundecanal
REACH No.: 01-2119969443-29, CAS: 110-41-8, EC: 203-765-0
3.2/2 Skin Irrit. 2 H315
3.4.2/1B Skin Sens. 1B H317
4.1/A1 Aquatic Acute 1 H400 M=1.
4.1/C1 Aquatic Chronic 1 H410 M=1.

>= 0.5% - < 1% 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

>= 0.5% - < 1% citral
REACH No.: 01-2119462829-23, Index number: 605-019-00-3, CAS: 5392-40-5, EC: 226-394-6
3.2/2 Skin Irrit. 2 H315
3.4.2/1B Skin Sens. 1B H317
3.3/2 Eye Irrit. 2 H319

>= 0.25% - < 0.5% 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% CITRONELLOL
REACH No.: 01-2119453995-23, CAS: 106-22-9, EC: 203-375-0
3.2/2 Skin Irrit. 2 H315
3.3/2 Eye Irrit. 2 H319
3.4.2/1B Skin Sens. 1B H317

>= 0.25% - < 0.5% Linalool
REACH No.: 01-2119474016-42, CAS: 78-70-6, EC: 201-134-4
3.2/2 Skin Irrit. 2 H315
3.4.2/1B Skin Sens. 1B H317
3.3/2 Eye Irrit. 2 H319

>= 0.1% - < 0.25% 2,4-dimethylcyclohex-3-ene-1-carbaldehyde
REACH No.: 01-2119982384-28, CAS: 68039-49-6, EC: 943-728-2
3.2/2 Skin Irrit. 2 H315
3.4.2/1B Skin Sens. 1B H317
4.1/C2 Aquatic Chronic 2 H411

>= 0.1% - < 0.25% Linalyl acetate
REACH No.: 01-2119454789-19, CAS: 115-95-7, EC: 204-116-4
3.2/2 Skin Irrit. 2 H315
3.4.2/1B Skin Sens. 1B H317
3.3/2 Eye Irrit. 2 H319

>= 0.1% - < 0.25% 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
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% 2,6 -Di-tert-Butyl-p-Cresol
REACH No.: 01-2119565113-46, CAS: 128-37-0, EC: 204-881-4
4.1/A1 Aquatic Acute 1 H400
4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% 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
3.2/2 Skin Irrit. 2 H315
3.4.2/1 Skin Sens. 1 H317
4.1/C1 Aquatic Chronic 1 H410

>= 0.01% - < 0.02% Cinnamal
REACH No.: 01-2119935242-45, CAS: 104-55-2
3.1/4/Dermal Acute Tox. 4 H312
3.2/2 Skin Irrit. 2 H315
3.4.2/1A Skin Sens. 1A H317
3.3/2 Eye Irrit. 2 H319

>= 0.005% - < 0.01% DYPHENYL OXYDE
CAS: 101-84-8, EC: 202-981-2
3.3/2 Eye Irrit. 2 H319
4.1/C2 Aquatic Chronic 2 H411

>= 0.001% - < 0.005% 5-methylheptan-3-one

Index number: 606-020-00-1, CAS: 541-85-5, EC: 208-793-7
2.6/3 Flam. Liq. 3 H226
3.3/2 Eye Irrit. 2 H319
3.8/3 STOT SE 3 H335

Specific Concentration Limits:
C >= 10%: STOT SE 3 H335

Acute Toxicity Estimate:

989 ppb isopentyl acetate
REACH No.: 01-2119548408-32, Index number: 607-130-00-2, CAS: 123-92-2, EC: 204-662-3
2.6/3 Flam. Liq. 3 H226
EUH066

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 eye.

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 carbon dioxide.
To water.
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.
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)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
BENZYL ACETATE - CAS: 140-11-4
ACGIH - TWA(8h): 10 ppm - Notes: A4 - URT irr
citral - CAS: 5392-40-5
ACGIH - TWA(8h): 5 ppm - Notes: (IFV), Skin, DSEN, A4 - Body weight eff, URT irr, eye dam
2,6 -Di-tert-Butyl-p-Cresol - CAS: 128-37-0
ACGIH - TWA(8h): 2 mg/m3 - Notes: (IFV), A4 - URT irr
DYPHENYL OXYDE - CAS: 101-84-8
ACGIH - TWA(8h): 1 ppm - STEL: 2 ppm - Notes: (V) - URT and eye irr, nausea
EU - TWA(8h): 7 mg/m3, 1 ppm - STEL: 14 mg/m3, 2 ppm
5-methylheptan-3-one - CAS: 541-85-5
EU - TWA(8h): 53 mg/m3, 10 ppm - STEL: 107 mg/m3, 20 ppm
ACGIH - TWA(8h): 10 ppm - Notes: Neurotoxicity
isopentyl acetate - CAS: 123-92-2
EU - TWA(8h): 270 mg/m3, 50 ppm - STEL: 540 mg/m3, 100 ppm
ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: URT 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-(1,2,3,4,6,7,8,8a-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
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

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-(1,2,3,4,6,7,8,8a-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
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: 0.750 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 needed for normal 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:	Solid	--	--
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:	>60°C	--	--
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:	0.882-0.902	--	--
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 under normal conditions
10.3. Possibility of hazardous reactions
None
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 POUR HOMME (TRIS)
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
The product is classified: Eye Irrit. 2 H319
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:
ISOBUTYL SALICYLATE - CAS: 87-19-4
a) acute toxicity:
Test: LD50 - Route: Oral 1560 mg/kg
ALLYL AMYL GLYCOLATE - CAS: 67634-00-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 500 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Positive - Duration: 24h

tetrahydro-2-isobutyl-4-methylpyran-4-ol - CAS: 63500-71-0
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit Negative
Test: Eye Corrosive - Species: Rabbit Positive
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: esseri umani Negative
e) germ cell mutagenicity:
Species: Salmonella Typhimurium Negative
ALPHA-ISOMETHYL IONONE - CAS: 127-51-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
2-Methylundecanal - CAS: 110-41-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
citral - CAS: 5392-40-5
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit 4950 mg/kg
Test: LD50 - Route: Oral - Species: Rat 2250 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
CITRONELLOL - CAS: 106-22-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 3450 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 2650 mg/kg
b) skin corrosion/irritation:
Test: Eye Irritant Positive
d) respiratory or skin sensitisation:
Test: Skin Sensitization Positive
Linalool - CAS: 78-70-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2.790 mg/kg
Test: LD50 - Route: Oral - Species: Mouse 2.200 mg/kg
Test: LC50 - Route: Inhalation - Species: Mouse Positive - Duration: 1.5h
Test: LD50 - Route: Skin - Species: Rabbit 5.610 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Positive - Duration: 7h
c) serious eye damage/irritation:
Test: Eye Irritant - Route: Skin - Species: Rabbit Positive - Duration: 72h
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: CAVIA Negative
Test: Inhalation Sesitization - Route: Inhalation - Species: CAVIA Negative
e) germ cell mutagenicity:
Test: Mutagenesis - Species: Salmonella Typhimurium Negative
Test: Genotoxicity - Species: Mouse Negative
Linalyl acetate - CAS: 115-95-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 14600 mg/kg
Test: LD50 - Route: Oral - Species: Mouse 13360 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Mouse 0 - Duration: 1.5h

b) skin corrosion/irritation:
Test: Skin Irritant - Species: esseri umani Negative
c) serious eye damage/irritation:
Test: Eye Corrosive - Species: esseri umani Negative
j) aspiration hazard:
Test: Respiratory Tract Irritant - Species: esseri umani Negative
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
5-methylheptan-3-one - CAS: 541-85-5
a) acute toxicity:
Test: LD50 - Route: Inhalation - Species: Mouse 16 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat 3500
Test: LD50 - Route: Skin - Species: Rabbit > 16000

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
tetrahydro-2-isobutyl-4-methylpyran-4-ol - CAS: 63500-71-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 354 Ppm - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 320 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 94 mg/l - Duration h: 72
BENZYL ACETATE - CAS: 140-11-4
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia 11 mg/l - Duration h: 48
2-Methylundecanal - CAS: 110-41-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 0.35 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 0.21 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 0.18 mg/l - Duration h: 72
Endpoint: NOEC - Species: Algae = 0.089 mg/l - Duration h: 72
citral - CAS: 5392-40-5
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae 16 mg/l - Duration h: 72
Endpoint: EC50 - Species: Algae 19 mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish 4.6-10 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 7 mg/l - Duration h: 48
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 2.60 mg/l - Duration h: 72
CITRONELLOL - CAS: 106-22-9
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 14.66 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 17.48 mg/l - Duration h: 48
Endpoint: CE6 - Species: Algae 2.4 mg/l - Duration h: 72
2,6 -Di-tert-Butyl-p-Cresol - CAS: 128-37-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 0.57 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 0.31 mg/l - Duration h: 48
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
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish 0.16 mg/l
DYPHENYL OXYDE - CAS: 101-84-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 10 mg/l - Duration h: 24
5-methylheptan-3-one - CAS: 541-85-5
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 80 mg/l - Duration h: 24
isopentyl acetate - CAS: 123-92-2
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia 42 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae 450 mg/l - Duration h: 72

12.2. Persistence and degradability
None
2-Methylundecanal - CAS: 110-41-8
Biodegradability: Readily biodegradable - Test: BIOGDG10 - Duration: 28gg - %: 60
CITRONELLOL - CAS: 106-22-9
Biodegradability: Readily biodegradable
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
isopentyl acetate - CAS: 123-92-2
Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentrantion factor 10

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:	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.(Patchouli Oil, ISOBUTYL SALICYLATE)
IATA-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Patchouli Oil, ISOBUTYL SALICYLATE)
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Patchouli Oil, ISOBUTYL SALICYLATE)

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:	No
IMDG-Marine pollutant:	No
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
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

No
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)

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 40

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 1.01 %
Volatile Organic compounds - VOCs = 10.10 g/Kg
Volatile Organic compounds - VOCs = 9.01 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:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H302 Harmful if swallowed.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H312 Harmful in contact with skin.
H226 Flammable liquid and vapour.
H335 May cause respiratory irritation.
EUH066 Repeated exposure may cause skin dryness or cracking.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
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. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
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 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory 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
Eye Irrit. 2, H319	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.