



Material safety data sheet

According to EU Regulation 1907/2006 in the current version

JUNIPER PURE ESSENTIAL OIL

1. Identification of the substance/mixture and company

Trade name:	Juniper Pure Essential Oil
I.N.C.I.	Juniperus Communis Fruit Oil
CAS No. :	84603-69-0
EINESCS No. :	282-268-3
REACH pre-registration No. :	/
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	Elemental SRL , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Skin sensitisation, Category 1 H317

Reproductive toxicity, Category 2 H361

Aspiration hazard, Category 1 H304

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400

Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statements (CLP):H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H361 - Suspected of damaging fertility or the unborn child.

H410 - Very toxic to aquatic life with long lasting effects.

P201 - Obtain special instructions before use.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.No smoking.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.



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P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... Do NOT induce vomiting.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage

3. Declaration of ingredients

3.1. Substances

Name	JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural
CAS-No.	84603-69-0
EC-No.	283-268-3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
alpha-Pinene	(CAS-No.) 80-56-8 (EC-No.) 201-291-9	<= 60	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Myrcene	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	<= 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
beta-Pinene	(CAS-No.) 127-91-3 (EC-No.) 204-872-5	<= 12	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
dipentene, limonene	(CAS-No.) 138-86-3 (EC-No.) 205-341-0 (EC Index-No.) 601-029-00-7	<= 8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Terpinen-1-ol-4	(CAS-No.) 562-74-3 (EC-No.) 209-235-5	<= 7	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
beta-Caryophyllene	(CAS-No.) 87-44-5 (EC-No.) 201-746-1	<= 5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 4, H413



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gamma-Terpinene	(CAS-No.) 99-85-4 (EC-No.) 202-794-6	<= 5	Repr. 2, H361 Flam. Liq. 3, H226 Asp. Tox. 1, H304
Terpinolene	(CAS-No.) 586-62-9 (EC-No.) 209-578-0	<= 3	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
alpha-Terpinene	(CAS-No.) 99-86-5 (EC-No.) 202-795-1	<= 3	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
p-Cymene	(CAS-No.) 99-87-6 (EC-No.) 202-796-7	<= 2	Repr. 2, H361 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Camphene	(CAS-No.) 79-92-5 (EC-No.) 201-234-8	<= 1	Flam. Sol. 2, H228 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
alpha phellandrene	(CAS-No.) 99-83-2 (EC-No.) 202-792-5	<= 1	Flam. Liq. 3, H226 Asp. Tox. 1, H304
(E)-beta-Farnesene	(CAS-No.) 18794-84-8 (EC-No.) 242-582-0	<= 1	Asp. Tox. 1, H304
delta-3-Carene	(CAS-No.) 13466-78-9 (EC-No.) 236-719-3	<= 0.6	Skin Sens. 1, H317 Skin Irrit. 2, H315 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Acute Tox. 4 (Inhalation:dust,mist), H332
Bornyl acetate	(CAS-No.) 76-49-3 (EC-No.) 200-964-4	<= 0.6	Not classified
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	<= 0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Bornéol	(CAS-No.) 507-70-0 (EC-No.) 208-080-0	<= 0.2	Skin Irrit. 2, H315 Flam. Sol. 1, H228 Aquatic Chronic 2, H411
oxide beta-Caryophyllene	(CAS-No.) 1139-30-6 (EC-No.) 214-519-7	<= 0.1	Aquatic Chronic 2, H411

Comments : Analysis method : gas chromatography (GC/FID) area % according to normalization method (ISO 7609 and 11024). Full text of H-statements: see section 16

3.2. Mixtures
Not concerned



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4. First aid measures

4.1 Description of first aid measures

First-aid measures general : Call a doctor immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Call a doctor immediately.

4.2 Main symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Risk of lung oedema.

4.3 Indication to consult a physician immediately or any special treatments

Treat symptomatically.

5. Fire fighting measures

5.1 Means of extinction

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3 Recommendations for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions

Avoid release to the environment.



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6.3 Methods and materials for containment and remediation

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

7. Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling :

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures :

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product

7.2 Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Keep contents under nitrogen.

7.3 Specific end uses

No data available

8. Exposure controls / personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

9. Physical and chemical properties

9.1 Information on physical and chemical properties



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Physical state : Liquid
Appearance : liquid at room temperature.
Colour : Colourless. Yellow.
Odour : woody. delicate. balsamic.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : 41 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 0.845 - 0.88
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : < 20 mm²/s
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available
Refractive index : 1.468 - 1.483

9.2 Other information

None

10. Stability and reactivity

10.1 Responsiveness

Flammable liquid and vapour.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of dangerous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5 Incompatible materials

No additional information available

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1 Information on toxicological effects



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Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural (84603-69-0)
LD50 oral rat > 5000 mg/kg
LD50 dermal rabbit > 5000 mg/kg
Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : May be fatal if swallowed and enters airways.
Viscosity, kinematic < 20 mm²/s

12. Ecological information

12.1 Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Ground mobility

No data available

12.5 Results of PBT and vPvB assessment

No data available e

12.6 Other adverse effects

No data available

Further information: no heavy metals and inorganic components

13. Disposal considerations

13.1 Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Flammable vapours may accumulate in the container.

14. Transport information

ADR	IMDG	IATA	ADN	RID
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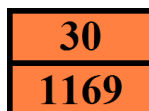
14.1. UN number				
UN 1169	UN 1169	UN 1169	UN 1169	UN 1169
14.2. UN proper shipping name				
EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID	Extracts, aromatic, liquid	EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID
Transport document description				



UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1169 Extracts, aromatic, liquid, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
3	3	3	3	3
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
Marine pollutant : Alpha-pinene				

14.6. Special precautions for user

Overland transport
 Classification code (ADR) : F1
 Special provisions (ADR) : 601
 Limited quantities (ADR) : 5I
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P001, IBC03, LP01, R001
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions: T2 (ADR)
 Portable tank and bulk container special provisions: TP1 (ADR)
 Tank code (ADR) : LGBF
 Vehicle for tank carriage : FL
 Transport category (ADR) : 3
 Special provisions for carriage - Packages (ADR) : V12
 Special provisions for carriage - Operation (ADR) : S2
 Hazard identification number (Kemler No.) : 30
 Orange plates





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Tunnel restriction code (ADR) : D/E
EAC code : 3YE

Transport by sea

Special provisions (IMDG) : 223, 955
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : A
Properties and observations (IMDG) : Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 601
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions: TP1 (RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12



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Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

Reference code Applicable on

3. JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural

3(a) JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural ; Myrcene ; beta-Pinene ; Camphene ; alpha-Pinene ; alpha-Terpinene ; p-Cymene ; dipentene, limonene ; delta-3-Carene

3(b) JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural ; Myrcene ; beta-Pinene ; Terpinen-1-ol-4 ; Terpinolene ; Camphene ; alpha-Pinene ; beta-Caryophyllene ; alpha-Terpinene ; p-Cymene ; dipentene, limonene ; delta-3- Carene ; Linalool

3(c) JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural ; Myrcene ; beta-Pinene ; Terpinolene ; Camphene ; alpha-Pinene ; beta-Caryophyllene ; alpha-Terpinene ; p-Cymene ; dipentene, limonene ; delta-3- Carene

40. JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural

JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural is not on the REACH Candidate List

JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural is not on the REACH Annex XIV List

JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

JUNIPER BERRIES ESSENTIAL OIL 100% pure and natural is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.2 Chemical safety assessment.

No data available

16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

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.

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.



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INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation: dust, mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Flam. Sol. 2	Flammable solids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life



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DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

ALLERGENS	CAS	%
Anisyl alcohol	105-13-5	nd
Benzyl alcohol	100-51-6	nd
Cinnamyl alcohol	104-54-1	nd
Benzyl benzoate	120-51-4	nd
Benzyl cinnamate	103-41-3	nd
Benzyl salicylate	118-58-1	nd
Cinnamal	104-55-2	nd
Citral	5392-40-5	≤ 0,01
Citronellol	106-22-9	≤ 0,30
Coumarin	91-64-5	nd
D-limonene	5989-27-5	≤ 8,00
Eugenol	97-53-0	≤ 0,20
Farnesol	4602-84-0	≤ 0,10
Geraniol	106-24-1	≤ 0,10
Isoeugenol	97-54-1	nd
Linalool	78-70-6	≤ 0,20
Tree moss	90028-67-4	nd
Oak moss	90028-68-5	nd
Phenylacetaldehyde	122-78-1	nd

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.