

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

Patchouli Essential Oil

1. Identification of the substance/mixture and company

Trade name: Patchouli Pure Essential Oil
I.N.C.I. Pogostemon Cablin Leaf Oil
CAS No.: 84238-39-1
EC No.: 939-227-3 (282-493-4)
REACH No.: 01-2119967775-18
Utilization: Raw material for personal care, aromatherapy
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.com
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

Aspiration hazard, Category 1

H304

Hazardous to the aquatic environment – Chronic Hazard, Category 2

H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects

2.2 Label elements

Hazard pictogramsCLP):



GHS08

GHS09

Signal word (CLP): Danger

Hazard statements (CLP):

H304 - May be fatal if swallowed and enters airways. H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP):

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P391 - Collect spillage.

2.3. Other hazards

Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

3. Declaration of ingredients

3.1. Substances

PATCHOULI ESSENTIAL OIL 100%

(CAS-No.) 84238-39-1

(EC-No.) 939-227-3 (282-493-4)

(REACH-no) 01-2119967775-18

Asp. Tox. 1, H304 Aquatic Chronic 2, H411

3.2. Mixtures

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Not applicable

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: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

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

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

Symptoms/effects after ingestion: Risk of lung oedema.

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

Treat symptomatically. If you feel unwell, contact a doctor immediately.

5. Fire fighting measures

5.1 Means of extinction

Appropriate extinction method:

In case of fire, use water spray (or fog) and appropriate fire extinguishers (CO₂, powder ...)

Inappropriate extinction method:

In case of fire, never use direct water stream.

5.2 Special hazards arising from the substance or mixture

In case of fire, may produce toxic fumes of carbon monoxide (CO) or carbon dioxide (CO₂). Exposure to decomposition products may be hazardous to health. Do not breathe fumes.

5.3 Recommendations for fire-fighters

Always wear full fire protection equipment. (Protective helmet with visor, fireproof clothing, operating gloves, self-contained breathing apparatus).

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

In the event of a product leak or spill, remove any flames or other heat sources from the area where the leak occurred.

If necessary use airway protection; protective clothing (e.g. safety glasses or masks) must be worn. Do not handle damaged containers or spilled product without first wearing appropriate protective equipment.

Refer to protective measures listed in sections 7 and 8.

For non-emergency personnel:

Avoid breathing vapors. Avoid all contact with skin and eyes. If necessary, evacuate staff by trained operators equipped with safety equipment

For emergency responders:

Appropriate personal protective equipment will be required (refer to Section 8).

Use appropriate personal protective equipment during clean-up.

6.2 Environmental precautions

Prevent contamination of soil and water, while entering into drains, ditches and rivers. Notify authorities if the product penetrates into the sewers or public waters.

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6.3 Methods and materials for containment and remediation

Absorb the spilled product with inert absorbent material (sand, vermiculite, diatomaceous earth). Collect most of the resulting material and place it in containers for disposal. Provide sufficient ventilation of the leak site.

6.4 Reference to other sections

Refer to sections 8 and 13 for information on exposure control, personal protection and disposal

7. Handling and storage

7.1 Precautions for safe handling

Use in a well-ventilated place. Do not eat, drink or smoke while handling the product.

Wash hands after use.

Reproduce labeling if transfer to another container.

Ensure adequate ventilation.

Provide safety showers and eye washes.

Fire prevention:

Prevent access by unauthorized persons.

Handle in well ventilated areas.

Equipment and procedures:

For personal protection, see Section 8.

Observe precautions stated on the label and regulations of labor protection.

Close the packaging after use.

Avoid inhalation of vapors and contact with skin or eyes.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed containers away from heat sources and protected from extreme temperatures.

Keep containers closed when not in use.

Always keep in appropriate packages (identical to the original material).

7.3 Specific end uses

No further information available

8. Exposure controls / personal protection

8.1 Control parameters

There are no specific control parameters

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

Personal protective equipment:

Hand protection: Protect your hands with category I work gloves (ref.

Directive 89/686/EEC and standard EN 374) such as latex, PVC or equivalent.

Skin protection: Wear work clothes with long sleeves and safety footwear for professional use in category I (ref.

Directive 89/686/EEC and standard EN 344). Wash with soap and water after removing protective clothing.

Respiratory protection: Use protective masks. The use of respiratory protection means is necessary in the absence of technical measures to limit worker exposure.

Eye protection: it is recommended to wear airtight protective glasses (ref. EN 166 standard).

Engineering measures:

Avoid contact with eyes, skin or clothing. Do not ingest. Avoid contact with food, drinks.

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Do not eat, do not drink and do not smoke during use.

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Physical state	:	Liquid
Appearance	:	liquid at room temperture. more or less viscous.
Colour	:	Yellowish brown
Odour	:	Woody, earthy
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	:	116 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Specific gravity (20/20°C)	:	0.940 – 0.980
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	< 20 mm ² /s
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2 Other information

Refractive index: 1.500 – 1.520

10. Stability and reactivity

10.1 Responsiveness

No dangerous reactions during storage and handling according to specifications.

10.2 Chemical stability

Stable product during storage and handling according to specifications.

10.3 Possibility of dangerous reactions

No dangerous reactions during storage and handling according to specifications.

10.4 Conditions to avoid

Avoid excessive heat (naked flames, sparks, ...).

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10.5 Incompatible materials

No additional information available

10.6 Hazardous decomposition products

Thermal decomposition / conditions to be avoided:

Avoid contact with any flame or spark, flame, Overheat. Avoid Direct rays of the sun.

No decomposition if used according to specifications.

Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 5000 mg/kg

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: May be fatal if swallowed and enters airways

12. Ecological information

12.1 Toxicity

Do not leave the product, even diluted in great quantity, penetrate the ground water, water or the drains.

Ecology - general: Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Toxic to aquatic life with long lasting effects

12.2 Persistence and degradability

No additional information available

12.3 Bioaccumulation potential

No additional information available

12.4 Ground mobility

No additional information available

12.5 Results of PBT and vPvB assessment

No additional information available

12.6 Other adverse effects

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No additional information available

13. Disposal considerations

13.1 Waste treatment methods

Product residues are to be considered special hazardous waste. The hazardousness of waste containing part of this product must be assessed in accordance with current legislation.

Disposal must be entrusted to an authorised waste management company in accordance with national and, if applicable, local regulations.

Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

14. Transport information

14.1 - UN Number

ADR: UN 3082

IMDG: UN 3082

IATA: UN 3082

14.2 - UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Marine pollutant : Patchoulol)

14.3 - Transport hazard class(es)

ADR: 9

IMDG: 9

IATA: 9

14.4 - Packaging group

ADR: III

IMDG III

IATA: III

14.5 - Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

14.6 - Special precautions for users

Overland transport

Classification code (ADR) M6

Special provisions (ADR) 274, 335, 375, 601

Limited quantities (ADR) 5I

Excepted quantities (ADR) E1

Packing instructions (ADR) P001, IBC03, LP01, R001

Special packing provisions (ADR) PP1

Mixed packing provisions (ADR) MP19

Portable tank and bulk container instructions (ADR) T4

Portable tank and bulk container special provisions (ADR) TP1, TP29

Tank code (ADR) LGBV

Vehicle for tank carriage AT

Transport category (ADR) 3

Special provisions for carriage - Packages (ADR) V12

Special provisions for carriage - Loading, unloading and handling (ADR) CV13

Hazard identification number (Kemler No.) 90

Tunnel restriction code (ADR) -

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EAC code •3Z

Transport by sea

Special provisions (IMDG) 274, 335, 969
Limited quantities (IMDG) 5 L
Excepted quantities (IMDG) E1
Packing instructions (IMDG) LP01, P001
Special packing provisions (IMDG) PP1
IBC packing instructions (IMDG) IBC03
Tank instructions (IMDG) T4
Tank special provisions (IMDG) TP1, TP29
EmS-No. (Fire) F-A
EmS-No. (Spillage) S-F
Stowage category (IMDG) A

Air transport

PCA Excepted quantities (IATA) E1
PCA Limited quantities (IATA) Y964
PCA limited quantity max net quantity (IATA) 30kgG
PCA packing instructions (IATA) 964
PCA max net quantity (IATA) 450L
CAO packing instructions (IATA) 964
CAO max net quantity (IATA) 450L
Special provisions (IATA) A97, A158, A197, A215
ERG code (IATA) 9L

Inland waterway transport

Classification code (ADN) M6
Special provisions (ADN) 274, 335, 375, 601
Limited quantities (ADN) 5 L
Excepted quantities (ADN) E1
Carriage permitted (ADN) T
Equipment required (ADN) PP
Number of blue cones/lights (ADN) 0

Rail transport

Classification code (RID) M6
Special provisions (RID) 274, 335, 375, 601
Limited quantities (RID) 5L
Excepted quantities (RID) E1
Packing instructions (RID) P001, IBC03, LP01, R001
Special packing provisions (RID) PP1
Mixed packing provisions (RID) MP19
Portable tank and bulk container instructions (RID) T4
Portable tank and bulk container special provisions (RID) TP1, TP29
Tank codes for RID tanks (RID) LGBV
Transport category (RID) 3
Special provisions for carriage – Packages (RID) W12
Special provisions for carriage - Loading, unloading and handling (RID) CW13, CW31

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Colis express (express parcels) (RID) CE8

Hazard identification number (RID) 90

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture
Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

Reference code

3(b) PATCHOULI ESSENTIAL OIL

3(c) PATCHOULI ESSENTIAL OIL

15.2 - Chemical safety assessment

Not listed on the REACH Candidate List

Not listed on REACH Annex XIV (Authorisation List)

Not listed on the PIC list (Regulation EU 649/2012)

Not listed on the POP list (Regulation EU 2019/1021)

16. Additional information

16.1 Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECS - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for

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Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative.

Full H sentences text in section 3:

Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic Hazard, Category 2

Asp. Tox. 1 Aspiration hazard, Category 1

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects..

DECLARATION OF ALLERGENS

Fragrance ingredients restricted as 26 potential allergens in previous ANNEX III of EUROPEAN COSMETIC REGULATION (EC) No1223/2009 and its amendments and in Schedule 34 of the Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 Statutory Instrument

INGREDIENT NAME	C.A.S.	Max %
ALPHA-ISOMETHYL IONONE	127-51-5	-
AMYL CINNAMAL	122-40-7	-
AMYL CINNAMYL ALCOHOL	101-85-9	-
ANISE ALCOHOL	105-13-5	-
BENZYL ALCOHOL	100-51-6	-
BENZYL BENZOATE	120-51-4	-
BENZYL CINNAMATE	103-41-3	-
BENZYL SALICYLATE	118-58-1	-
BUTYLPHENYL METHYLPROPIONAL	80-54-6	-
CINNAMAL	104-55-2	-
CINNAMYL ALCOHOL	104-54-1	-
CITRAL	5392-40-5	-
CITRONELLOL	106-22-9	-
COUMARIN	91-64-5	0,050
EUGENOL	97-53-0	0,200
EVERNIA FURFURACEA (TREETMOSS) EXTRACT	90028-67-4	-
EVERNIA PRUNASTRI (OAKMOSS) EXTRACT	90028-68-5	-
FARNESOL	4602-84-0	0,050
GERANIOL	106-24-1	-
HEXYL CINNAMAL	101-86-0	-
HYDROXYCITRONELLAL	107-75-5	-
HYDROXYISOHEXYL 3- CYCLOHEXENE CARBOXALDEHYDE	31906-04-4	-
ISOEUGENOL	97-54-1	-

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LIMONENE	5989-27-5	0,100
LINALOOL	78-70-6	0,010
METHYL 2-OCTYNOATE	111-12-6	-

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.