



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: Identification

Parameter	Details
Product Name	Patchouli Essential Oil CO ₂
Alternative Name	Patchouli CO ₂ Extract
Botanical Name	<i>Pogostemon cablin</i> (Blanco) Benth.
INCI Name	Pogostemon Cablin Leaf Oil
Product Type	Natural CO ₂ Extract / Natural Complex Substance
Plant Part	Dried Leaves
Extraction Method	Supercritical Carbon Dioxide Extraction
Primary CAS Number	8014-09-3
Alternative CAS Number	84238-39-1
EC Number	282-493-4
Country of Origin	India
Physical Form	Viscous Liquid

1.2 Relevant Identified Uses

- Professional perfumery
- Cosmetic formulations
- Fine fragrance
- Home fragrance
- Incense manufacture
- Industrial fragrance applications
- Research and development

Uses Advised Against

- Internal consumption
 - Pharmaceutical use
 - Direct undiluted skin application
 - Food use unless separately approved
 - Use by children
-

1.3 Supplier



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1.4 Emergency Telephone

Contact the nearest Poison Centre or emergency medical services.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification (Representative CLP)

Hazard Class	Classification
Aspiration Hazard	Category 1
Aquatic Chronic	Category 2

Hazard Statements

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

Signal Word

Danger

Pictograms

- GHS08
- GHS09

Precautionary Statements

- P261 Avoid breathing vapours.
- P273 Avoid release to the environment.



- P280 Wear protective gloves and eye protection.
- P301+P310 IF SWALLOWED: Immediately call a Poison Centre or physician.
- P331 Do NOT induce vomiting.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose according to local regulations.

2.3 Other Hazards

- Natural botanical extract.
- Composition varies with harvest and extraction.
- Oxidised material may exhibit increased sensitisation potential.
- Not expected to meet PBT or vPvB criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Component	CAS	Content
Patchouli Essential Oil CO ₂	8014-09-3	100%

Representative Constituents

Constituent	Typical Range
Patchoulol	30–40%
α-Guaiene	10–15%
Seychellene	7–10%
α-Patchoulene	4–6%
β-Patchoulene	2–4%
Pogostol	1–3%
β-Caryophyllene	1–3%

SECTION 4: FIRST AID MEASURES

Inhalation

Move to fresh air.

Seek medical attention if symptoms persist.



Skin Contact

Wash thoroughly with soap and water.

Eye Contact

Flush with water for at least 15 minutes.

Ingestion

Immediately obtain medical attention.

Do **NOT** induce vomiting.

Most Important Symptoms

- Gastrointestinal irritation
- Chemical pneumonitis after aspiration
- Mild skin irritation
- Eye irritation

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media:

- CO₂
- Dry powder
- Alcohol resistant foam
- Water fog

Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide
- Organic smoke

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES



- Ensure ventilation.
 - Remove ignition sources.
 - Avoid environmental release.
 - Absorb using inert material.
 - Collect into suitable disposal containers.
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SECTION 7: HANDLING AND STORAGE

Handling

- Use good industrial hygiene.
- Avoid prolonged skin contact.
- Avoid breathing vapours.

Storage

Store:

- Between **5–20°C**
 - Protected from sunlight
 - In tightly sealed containers
 - Away from oxidising agents
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Adequate ventilation.

PPE

- Safety glasses
- Nitrile gloves
- Protective clothing

Respiratory protection if ventilation is inadequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



Property	Representative Value
Appearance	Amber to dark amber viscous liquid
Odour	Rich earthy woody balsamic
Relative Density (20 °C)	0.950–0.980
Refractive Index	1.500–1.515
Flash Point	Approximately 112 °C
Solubility	Insoluble in water
Ethanol Solubility	Soluble

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage.

Avoid:

- Heat
- Air
- Light
- Strong oxidisers

Hazardous decomposition:

- CO
 - CO₂
 - Organic smoke
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SECTION 11: TOXICOLOGICAL INFORMATION

Representative hazards:

- Aspiration hazard
- Mild eye irritation
- Possible skin irritation after prolonged exposure

Routes of exposure:

- Skin
- Eyes
- Inhalation



- Ingestion

SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic organisms.
- Avoid environmental release.
- Insoluble in water.
- Some sesquiterpenes may bioaccumulate.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose through an authorised hazardous-waste contractor.

Do not discharge into drains.

SECTION 14: TRANSPORT INFORMATION

Parameter	Details
UN Number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
Packing Group	III
Marine Pollutant	Yes

SECTION 15: REGULATORY INFORMATION

Prepared with reference to:

- REACH (EC) 1907/2006
- Regulation (EU) 2020/878
- CLP Regulation (EC) 1272/2008
- Cosmetic Regulation (EC) 1223/2009
- Regulation (EU) 2023/1545
- Current IFRA Standards
- ADR / IMDG / IATA



SECTION 16: OTHER INFORMATION

Shelf Life

24 months under recommended storage conditions.

Disclaimer

This MSDS has been prepared using representative information for Patchouli Essential Oil CO₂ obtained by supercritical carbon dioxide extraction. As a Natural Complex Substance, composition and hazard classification may vary according to botanical origin, harvest, extraction parameters and production batch. The original manufacturer's current Safety Data Sheet and batch-specific documentation shall take precedence.

AUTHORISED BY

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