

Safety Data Sheet

In accordance with REACH Regulation EC No.1907/2006

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

1.1. Product identifier

Product name:	Patchouli Essential Oil
CAS number:	Related 84238-39-1
EINECS number:	939-227-3/Related 282-493-4
Other names:	Patchouli Essential Oil, Patchouli Ext., Patchouli Oil, Patchouli Oil Dark
INCI name:	Pogostemon Cablin Oil

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

Industrial use:	Washing, cleaning and disinfecting products; fragranced end products.
Professional use:	Washing, cleaning and disinfecting products; polishes and wax blends; oral care products; fragranced end products.
Consumer use:	Washing, cleaning and disinfecting products; polishes and wax blends; oral care products; fragranced end products; biocides; air care products; tobacco products; cosmetics.

1.3. Details of the supplier of the safety data sheet

Company name:	Bath and Body Base Ltd 2A Laurel Way Bishop Auckland Co. Durham DL14 7NF
Tel:	07493 064263
Email:	technical@bathandbodybase.com

1.4. Emergency telephone number

Emergency tel:	07493 064263
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Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:	Asp. Tox. 1, H304 Aquatic Chronic 2, H411
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2.2. Label elements

Label elements labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard statements:	H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long-lasting effects.
Signal words:	DANGER

Hazard pictograms:



Health Hazard Environment

Precautionary statements (prevention):

P233: Keep container tightly closed.
P273: Avoid release to the environment.
P280: Wear protective gloves/clothing/eye-protection/face protection.

Precautionary statements (response):

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P315: Get immediate medical advice/attention.
P391: Collect spillage.

Precautionary statements (storage):

P405: Store locked up.

Precautionary statements (disposal):

P501: Dispose of contents/containers to a licensed waste disposal company in accordance with local/regional/national and international regulations.

2.3. Other hazards

Other hazards:

All essential oils are highly concentrated so have strong aromas and colour that can stain.

Patchouli Oil contains over 10% Hydrocarbons (approximately 64%). Emergency treatment for those who accidentally swallow oils in this category is to seek medical attention immediately and transport sitting in a half-upright position.

Section 3: Composition/information on ingredients

3.1. Chemical identity of the substance

Chemical identity:

Essential oil extract of Pogostemon Cablin. Produced by steam distillation of leaves of botanical. There will be variation as it is a natural product.

Common name(s), synonym(s):

Patchouli Oil Dark, Patchouli Oil Light

3.2. Substances

Mixture:

REACH description: Reaction mass of 1,4-dimethyl-7-(prop-1-en-2-yl)-1,2,3,4,5,6,7,8-octahydroazulene and 3,8-dimethyl-5-(prop-1-en-2-yl)-1,2,3,3a,4,5,6,7-octahydroazulene and 4,8a,9,9-tetramethyldecahydro-1,6-methanonaphthalen-1-ol

Chemical Identity of ingredients:

Classification according to COMMISSION REGULATION (EU) 2017/542 of 22 March 2017 amending Regulation (EC) No 1272/2008

Major components of this natural complex substance are:

23 to 45% **Patchouli alcohol** – CAS 5986-55-0, EC 227-807-2: Aquatic Chronic 2, H411

5 to 25% **alpha-Bulnesene** – CAS 3691-11-0: Not classified.

1 to 14% **Seychellene** – Not classified.

1 to 10% **alpha-Patchoulene** – CAS 560-32-7: Not classified.

1 to 8% **Pogostol** – CAS 21698-41-9: Not classified.

1 to 6% **Aciphyllene** – CAS 87745-31-1: Not classified.

0.5 to 20% **Guaiene** – CAS 88-84-6, EC 201-860-1: Asp Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319

0 to 6% **Caryophyllene** – CAS 87-44-5, EC 201-746-1: Asp. Tox. 1 H304; Skin Sens. 1B, H317; Aquatic Chronic 4, H413

0 to 6% **Humulene** – CAS 6753-98-6, EC 229-816-7: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 (not provided)

0 to 5% **delta-Patchoulene** – CAS 53823-16-8; Not classified.

0 to 4% **beta-Patchoulene** – CAS 514-51-2, EC 208-182-5: Skin Irrit. 2, H315; Eye Irrit. 2, H319

0 to 3.5% **epi-beta Caryophyllene**: Not classified.

0 to 3% **nor-Patchoulenol** – CAS 41429-52-1: Not classified.

0 to 3% **alpha-Copaene** – CAS 3856-25-5, EC 223-364-4: Asp. Tox. 1, H304

0 to 2% **beta-Elemene** – CAS 515-13-9: Not classified.

0 to 2% **Pogostone** – CAS 23800-56-8: Not classified.

0 to 1.5% **Cycloseychellene** – CAS 52617-34-2: Not classified.

0 to 1% **beta-Selinene** – CAS 17066-67-0: Not classified.

0 to 1% **alpha-Pinene** – CAS 80-56-8, EC 201-291-9: Flam. Liq. 3, H226, Acute Tox. 4, H302; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

0 to 1% **beta-Pinene** – CAS 127-91-3, EC 204-872-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic, 1 H410

0 to 10% Unknown Impurities; likely to be Patchouli Sesquiterpenes, each present at less than 1%

Section 4: First aid measures

4.1. Description of first aid measures

General advice:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.
Skin contact:	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye contact:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Swallowed:	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.
Inhalation:	Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Self-protection of First Aider: Use personal protective equipment as described in Section 8 if substance is present.

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

Most important symptoms and effects: No additional data.

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

Immediate/special treatment: No specific first aid measures noted.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Dry chemical, alcohol-resistant foam, Carbon Dioxide (CO₂) or water spray.

Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: May produce Carbon Dioxide and unidentified organic compounds.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.4. Emergency action code

Emergency action code: 3[Y] (Foam + BA & Fire Kit)

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Reference to other sections: No additional information.

Section 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Do not breathe vapours/dust. Use PPE described below. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Normal measures for preventive fire protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards. No decomposition if stored and applied as directed.

7.3. Specific end use(s)

Recommendations: No additional data.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits: Contains no substances with occupational exposure limit values.

8.2. Exposure controls



Engineering controls: No information available.

PPE – General: Use personal protective equipment depending on concentration and amount of hazardous substance. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

PPE – Eye: Eye wash bottle with pure water. Tightly fitting safety goggles.

PPE – Skin: The suitability for a specific workplace should be discussed with the producers of protective gloves. Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

PPE – Respiratory: Not necessary in adequate local with general ventilation – avoid breathing vapours.

Section 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Clear mobile liquid
Colour:	Light yellow to dark brown yellow
Odour:	Characteristic woody, sweet
Specific gravity:	@ 25°C: 0.943 to 0.983
Refractive index:	@ 20°C: 1.500 to 1.540
Optical rotation:	No data.
Solubility:	(water) 12.3mg/l @ 20°C
Boiling point:	@ 101 325 Pa: 320°C / 593K @101 325 Pa
Vapour pressure:	@ 20°C: 0.94 Pa
Freezing point:	< 223.15 K (< -50°C)
Flash point:	114.5°C @101 325 Pa (Closed Cup method)

Section 10: Stability and reactivity**10.1. Reactivity**

Reactivity: None.

10.2. Chemical stability

Chemical stability: The product is chemically stable.

10.3. Possibility of hazardous reactions

Hazardous reactions: No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Conditions to avoid: No data available.

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition product

Haz. decomp. products: No data available.

Section 11: Toxicological information**11.1. Information on toxicological effects**

Oral: Rat LD50 > 5000mg/kg
Eye: Not irritating (based on the criteria outlined in 1272/2008/EC).

Inhalation:	Not determined, study scientifically not necessary/other information available.
Skin:	GHS criteria not met (rabbit LD50 > 2000mg/kg bw)
Skin irritation:	Not irritating (as outlined in Annex I of 1272/2008/EC).
Skin sensitivity:	GHS criteria not met.
Mutagenicity:	Non-mutagenic (Ames test).
Fertility/reproduction:	Reproductive/developmental NOEL 4000ppm

Section 12: Ecological information

12.1. Toxicity

Fish:	Oncorhynchus mykiss: LC50 = 5.7mg/L
Algae:	Pseudokirchnerella subcapitata – EC50 = 73mg/L; EC10/NOEC = 10mg/L
Daphnia acute toxicity:	EC50 / LC50 = 11mg/L
Microorganisms:	EC10 / NOEC = 100mg/L

12.2. Persistence and degradability

Biodegradability:	Patchouli Oil can be regarded as readily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential:	Since a significant fraction of Patchouli ext. has partition coefficients greater than 5.7, the substance is considered to be potentially bioaccumulative for classification and PBT assessment purposes.
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12.4. Mobility in soil

Mobility:	Not determined.
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12.5. Results of PBT and vPvB assessment

PBT identification:	The substance is not PBT/vPvB.
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12.6. Other adverse effects

Other adverse effects:	Not determined.
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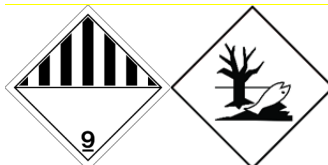
Section 13: Disposal considerations

13.1. Disposal considerations

Disposal methods and containers:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Special precautions for landfill and incineration:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Dispose of in accordance with local regulations.

Section 14: Transport information

UN number: 3082
UN proper shipping name: Patchouli, Environmentally Hazardous Substance, Liquid, N.O.S
Transport hazard class(es): 9
Packaging group: III
Transport labels:



Environmental hazards: See Section 2
Special precautions for user: Dangerous Goods Note
Transport in bulk according to Annex II of MARPOL73/78 and IBC Code: Tunnel restriction code: 3 (E)

Section 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716).

15.2. Chemical Safety Assessment

Chemical safety assessment: Chesar (for REACH).

Section 16: Other information
16.1. Other information

Packaging:

Type	Suitability
Glass	Yes
Steel	Yes
Aluminium	Yes
F/HDPE	Yes
Stainless steel drum	Yes

Shelf life: 36 months when stored within advised conditions, re-test every 12 months thereafter for a possible further 5 years.

Other information: * Indicates text in the SDS which has changed since the last revision.

Legal disclaimer: This information is provided for documentation purposes only.

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Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all appropriate local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this document should be provided to your employees or customers.