

**MUHUHU AFRICAN SANDALWOOD ORGANIC
ESSENTIAL OIL**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name MUHUHU AFRICAN SANDALWOOD ORGANIC ESSENTIAL OIL
 Substance name Brachylaena huillensis O.Hoffm.
 CAS No. Not applicable
 EC No. Not applicable
 REACH Registration No. Exempt: tonnage band under 1 ton/year

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

Identified Use(s) Raw material for industry
 Cosmetic products, detergents
 Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Supplier
 Company Identification Scents From Nature - Natural Essential Oils Company, Lda
 Address of Manufacturer Zona Industrial da Ladeira da Calça, Lote 1
 Postal code 3260-305 Figueiró dos Vinhos, Portugal
 Telephone: (+351) 236 551 093
 E-mail Info@SCENTSNATURE.com

1.4 Emergency telephone number

National response centre
 Address Centro de Informação Antivenenos (CIAV)
 INEM – Instituto Nacional de Emergência Médica,
 Rua Almirante Barroso, 36,
 1000 – 013 LISBOA, Portugal.
 Emergency Phone No. 800 250 250

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Skin corrosion/irritation, 2;
 Harmful if swallowed, 4;
 Causes severe skin burns and eye damage, 1A, 1B, 1C
 May cause long lasting harmful effects to aquatic life, 4
 Causes serious eye irritation, 2A
 May cause respiratory irritation, category 3
 Sensitisation — Skin, Hazard. Category 1; 1^a, 1B
 Hazardous to the aquatic environment— long-term hazard, 2
 May be fatal if swallowed and enters airways, 1

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)
 Product Name MUHUHU AFRICAN SANDALWOOD ORGANIC ESSENTIAL OIL
 Substance name Brachylaena huillensis

Hazard Pictogram(s)



GHS02



GHS08



GHS07



GHS09

Signal Word(s)

Danger

Hazard Statement(s)

H302: Harmful if swallowed.
 H304: May be fatal if swallowed and enters airways.
 H314: Causes severe skin burns and eye damage
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H411: Toxic to aquatic life with long
 H413: May cause long lasting harmful effects to aquatic life.

Precautionary Statement(s)

P260: Do not breathe dust/fume/gas/mist/vapors/spray
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash your hands thoroughly after handling.



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P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.

2.3 Other hazards

P411: Store at temperatures not exceeding 25°C / 77°F.
P402+PP404: Store in a dry place. Store in a closed container.
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P210: Keep away from heat, hot surface, sparks, open flames and other ignition

sources. - No smoking. P211: Do not spray on an open flame or other ignition source.

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2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substances

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Brachylaena huilensis	N/A	N/A	100	H302 H304 H314 H317 H335 H411 H413	GHS05 GHS07 GHS08 GHS09

Major constituents of the substance contributing to the classification:

Concentration (%)	CAS	EC Number	Chemical name	IUPAC	Hazard Class and Category Code; Hazard statement codes	Pictogram and signal word
< 1	89-83-8	201-944-8	Thymol	2-Isopropyl-5-methylphenol	H302 Acute Tox. 4; H314 Skin Corr. 1B; H411 Aquatic Chronic 2	Danger GHS09 GHS05 GHS07
< 1.5	3856-25-5	223-364-4	α -Copaene	8-isopropyl-1,3-dimethyltricyclo[4.4.0.0 ^{2,7}]dec-3-ene	H304 Asp. Tox. 1	Danger GHS08
< 1	87-44-5	201-746-1	Caryophyllene	(1R,4E,9S)-4,11,11-trimethyl-8-methylidenebicyclo[7.2.0]undec-4-ene	H304 Asp. Tox. 1; H317 Skin Sens. 1B; H413 Aquatic Chronic 4; H304 Asp. Tox. 1; H315 Skin Irrit. 2; H319 Eye Irrit. 2; H335 STOT SE 3	Danger GHS08; GHS07
< 1	23986-74-5	639-624-9	Germacrene D	1,6-Cyclodecadiene, 1-methyl-5-methylene-8-(1-methylethyl)-, (1E,6E,8S)-	H302 Acute Tox. 4 H304 Asp. Tox. 1	Danger GHS08 GHS07
7-17	136458-94-1	-	8-Ketoylangenal(= BrachylaenaloneB)	(6R,7R,8S)-1-methyl-9-oxo-8-propan-2-yltricyclo[4.4.0.0 ^{2,7}]dec-3-ene-3-carbaldehyde	Limited availability	No information
5-15	136396-58-2	-	8-Ketocopaenal(= BrachylaenaloneA)	(6R,7R,8R)-1-methyl-9-oxo-8-propan-2-yltricyclo[4.4.0.0 ^{2,7}]dec-3-ene-3-carbaldehyde	Limited availability	No information
< 5	438-75-0	-	α -Amorphene	4,7-dimethyl-1-propan-2-yl-1,2,4a,5,6,8a-hexahydronaphthalene	Limited availability	No information
< 6	NA	-	Gleenol	5S,6R,9S,10R)-3,6-dimethyl-9-propan-2-ylspiro[4.5]dec-3-	Limited availability	No information



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				en-10-ol		
< 3	NA	-	β-Oplophenone	1-[(1R,7R)-4-methylidene-7-propan-2-yl-1,2,3,3a,5,6,7,7a-octahydroinden-1-yl]ethanone	Limited availability	No information
< 10	NA	-	Ylangenol	-	Limited availability	No information

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep at rest. Get medical attention immediately.
Skin Contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eye Contact	First rinse with plenty of water for 15 minutes (remove contact lenses if easily possible), then take to a doctor if the symptoms persist.
Ingestion	If swallowed, rinse mouth with water. Get medical attention immediately and show this container or label. Do NOT induce vomiting.
General information	Always remove contaminated clothing immediately.

4.2 Most important symptoms and effects, both acute and delayed

Acute toxicity: no information was found for muhuhu oil, and little is known about its major constituents.
Adverse skin reactions: no information was found for muhuhu oil, and little is known about its major constituents.

4.3 Indication of any immediate medical attention and special treatment needed

See section 4.1 for further information.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	Use foam or dry powder to extinguish.
Unsuitable extinguishing media	Water jet spray

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours.

5.3 Advice for firefighters

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Special protective equipment for fire-fighters: wear positive pressure self-contained breathing apparatus (scba) and appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Collect spillage. Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do NOT smoke and do NOT expose the product to an open flame or to any other potential source of ignition. Wear appropriate gloves to prevent skin exposure. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.

Conditions for safe storage, including any incompatibilities

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light.

Keep the container at 25°C.

Store in accordance with local/national regulations and follow the warnings on the label.

The storage must comply the ISO/TS 210

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.2 Specific end use(s)

Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Amber
Odour	Woody
Melting point/freezing point	Not known. *
Boiling point or initial boiling point and boiling range	Not known. *
Flammability	Not known. *
Lower and upper explosion limit	Not known. *
Flash Point	62 - 77°C
Auto-ignition temperature	Not known. *
Decomposition Temperature	Not known. *
pH	4.10 - 5.45 (20°C)
Kinematic Viscosity	Not known. *
Solubility	Solubility (Water): Insoluble in water Solubility (Other): Miscible with ether, chloroform, glacial acetic acid.
Partition coefficient n-octanol/water (log value)	Not known. *
Vapour pressure	Not known. *
Density and/or relative density	0.9547 - 1.150 (20°C)
Optical rotation	-4 to +9.27°
Refractive index	1.5065 - 1.5297 (20°C)

* There are no data available at the time of writing this document or it is not applicable due to the nature and danger of the product

9.2 Other information

None.

9.3 Shelf-life

When stored within advised conditions, re-test after 12 months then at 6 monthly intervals up to a maximum life of 60 months.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions <25°C.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat, flames and other sources of ignition.

10.5 Incompatible materials

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: constituents.	No information was found for African Sandalwood oil, and little is known about its major constituents.
Skin Corrosion / Irritation: constituents.	No information was found for African Sandalwood oil, and little is known about its major constituents.
Adverse skin reactions constituents.	No information was found for African Sandalwood oil, and little is known about its major constituents.
Serious eye damage/irritation: constituents.	No information was found for African Sandalwood oil, and little is known about its major constituents.
Respiratory or skin sensitisation: about its major constituents.	No information was found for African Sandalwood oil, and little is known about its major constituents.
Germ cell mutagenicity: constituents.	No information was found for African Sandalwood oil, and little is known about its major constituents.
Endocrine toxicity constituents.	No information was found for African Sandalwood oil, and little is known about its major constituents.

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Carcinogenicity:
constituents.

No information was found for African Sandalwood oil, and little is known about its major

Reproductive toxicity:
constituents.

No information was found for African Sandalwood oil, and little is known about its major

STOT-single exposure:
constituents.

No information was found for African Sandalwood oil, and little is known about its major

STOT-repeated exposure:
constituents.

No information was found for African Sandalwood oil, and little is known about its major

Aspiration toxicity:
about its major constituents.

No information was found for African Sandalwood oil, and little is known

LD50
constituents.

No information was found for African Sandalwood oil, and little is known about its major

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Acute aquatic toxicity:**

May cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability:

na

12.3 Bioconcentration Factor:

na

12.4 Mobility in soil:

na

12.5 Results of PBT and vPvB assessment:

na

12.6 Other adverse effects:

na

SECTION 13: DISPOSAL CONSIDERATIONS

Container disposal Containers must be disposed of as hazardous waste. Do not reuse empty containers.


Empty residue into a suitable disposal site.


Do not empty into drains. Avoid release to the environment for specific instructions /Safety Data Sheets.


Disposal conditions Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

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SECTION 14: TRANSPORT INFORMATION

International Carriage of Dangerous Goods by Road (ADR)	
UN No.:	
Proper Shipping Name:	EXTRACTS, AROMATIC, LIQUID
Packing Group:	
Class:	
Tunnel restriction code:	
Label:	

Sea Transport (IMDG)	
UN No.:	
Proper Shipping Name:	EXTRACTS, AROMATIC, LIQUID
Packing Group:	
Class:	
Marine Pollutant:	
Label:	

Air Transport (ICAO/IATA)	
UN No.:	
Proper Shipping Name:	EXTRACTS, AROMATIC, LIQUID
Packing Group:	
Class:	
Label:	
	<p>UE No Standart Packing: carry in metal packing with 10L net weight or carry in glass packing with 2.5L net weight.</p> <p>UE Standart Packing: carry in metal packing with 60L net weight or carry in glass packing with 2.5L net weight. (singles and combination packages are allowed)</p>

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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SAFETY DATA SHEET

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EU DIRECTIVES	REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18TH DECEMBER 2006, CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) NO 793/93 & COMMISSION REGULATION (EC) NO 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).
STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 NO 716)
APPROVED CODE OF PRACTICE	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.

15.1 Chemical safety assessment

Not available

SECTION 16: OTHER INFORMATION

H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H314: Causes severe skin burns and eye damage. graves.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H411: Toxic to aquatic life with long.
H413: May cause long lasting harmful effects to aquatic life.

Abbreviations & Acronyms:

S D S	SAFETY DATA SHEET.
INCI	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
C A S	CHEMICAL ABSTRACT SERVICE.
IMDG	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
ICAO	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
ADN	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS
GHS	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS
STOP	SPECIFIC TARGET ORGAN TOXICITY.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

Recomendations:

To keep out of reach of children and to not take internally.

Key literature references and sources for data:

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.



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3. ECHA INFORMATION: <https://echa.europa.eu/pt/substance-information/-/substanceinfo/100.028.848>
4. Regulation (EC) No 2015/830 1907/2006 of the European Parliament and of the Council of 25 May 2015 on classification, labelling and packaging of substances and mixtures, amending and repealing.
(PT)
 1. Regulamento (CE) n.º 1272/2008 do Parlamento Europeu e do Conselho, de 16 de dezembro de 2008, relativo à classificação, rotulagem e embalagem de substâncias e misturas, que altera e revoga as Diretivas 67/548 / CEE e 1999/45 / CE, e que altera o Regulamento (CE) n.º 1907/2006.
 2. Regulamento (CE) n.º 1907/2006 do Parlamento Europeu e do Conselho, de 18 de dezembro de 2006, relativo ao registo, avaliação, autorização e restrição de produtos químicos (REACH), que institui uma Agência Europeia dos Produtos Químicos, que altera a Diretiva 1999/45 / CE e revogando o Regulamento (CEE) n.º 793/93 do Conselho e o Regulamento (CE) n.º 1488/94 da Comissão, bem como a Diretiva 76/769 / CEE do Conselho e as Diretivas da Comissão 91/155 / CEE, 93/67 / CEE, 93/105 / CE e 2000/21 / CE.
 3. INFORMAÇÕES DA ECHA: <https://echa.europa.eu/en/substance-information/-/substanceinfo/100.028.848>
 4. Regulamento (CE) n.º 2015/830 1907/2006 do Parlamento Europeu e do Conselho, de 25 de maio de 2015, relativo à classificação, rotulagem e embalagem de substâncias e misturas, alteração e revogação.

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