



NHR ORGANIC OILS
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Safety Data Sheet
Organic Cajeput Essential Oil
(Melaleuca leucadendron)

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Organic Cajeput Oil			
Biological Definition		-			
INCI Name		Melaleuca Leucadendron Cajeputi Leaf Oil			
CAS	85480-37-1	EC	287-316-4	EINECS	287-316-4
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data					
1.3 Details of the supplier of the safety data sheet					
NHR Organic Oils 24 Chatham Place Brighton East Sussex BN1 3TN UK					
1.4 Emergency Tel. No.		+ 44 (0) 1273 746 505			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
No additional data	
Classification (EC 1272/2008)	
Physical hazards: - Flam. Liq. 3 - H226 Health hazards: - Asp. Tox. 1 - H304 - Skin Irrit. 2 - H315	

- Skin Sens. 1B - H317
 - Eye Irrit. 2 - H319
 - Repr. 2 - H361
- Environmental hazards:
- Aquatic Acute 1 - H400
 - Aquatic Chronic 1 - H410

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word

Danger

Contains

- Alpha-Pinene
- Beta-Pinene
- D-Limonene

Hazard Statements

- 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 - Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
 P242 - Use non-sparking tools.
 P243 - Take action to prevent static discharges.
 P261 - Avoid breathing vapours/spray.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301/P310 - IF SWALLOWED - Immediately call a POISON CENTER/doctor.
 P302/P352 - IF ON SKIN - Wash with plenty of water.
 P303/P361/P353 - IF ON SKIN (or hair) - Take off immediately all contaminated clothing. Rinse skin with water.
 P331 - Do NOT induce vomiting.
 P333/P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P370/P378 - In case of fire Use water spray, dry powder or carbon dioxide to extinguish.
 P362/P364 - Take off contaminated clothing. And wash it before reuse.
 P391 - Collect spillage.

P501 - Dispose of contents in accordance with local, state or national legislation.	
Supplementary Statements	
P264 - Wash hands and exposed skin thoroughly after handling.	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No additional data
Adverse physio-chemical properties	<ul style="list-style-type: none"> - Flammable Liquid or Vapour - Very toxic to aquatic life with long lasting effects.
Adverse effects on human health	<ul style="list-style-type: none"> - Causes skin irritation. - May cause and allergic skin reaction. - Causes serious eye irritation. - May be fatal if swallowed and enters airways. - Suspected of damaging fertility or the unborn child.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition
<p>50.0 – 80.0% Eucalyptol CAS: 470-82-6 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Skin Sens. 1B - H317
<p>7.0 – 20.0% alpha-Terpineol CAS:98-55-5 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Skin Irrit. 2 - H315 - Eye Irrit. 2 - H319
<p>≤ 10.0% d-Limonene CAS: 5989-27-5 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Asp. Tox. 1 - H304 - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317 - Aquatic Acute 1 - H400 - Aquatic Chronic 1 - H410
<p>4.0 – 10.0% alpha-Pinene CAS: 80-56-8 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - 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

≤ 5.5% 4-Carvomenthenol (Terpinen-4-ol)

CAS: 562-74-3

Classification (EC 1272/2008)

- Acute Tox. 4 - H302
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Eye Irrit. 2 - H319
- STOT SE 3 - H336

5.0 – 10.0% p-Mentha-1,3-diene (alpha-Terpinene)

CAS: 99-86-5

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Acute Tox. 4 - H302
- Skin Sens. 1B - H317
- Eye Irrit. 2 - H319
- Aquatic Chronic 2 - H411

≤ 5.0% Linalool

CAS: 78-70-6

Classification (EC 1272/2008)

- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317
- Eye Irrit. 2 - H319

1.0 – 5.0% beta-Pinene

CAS: 127-91-3

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

≤ 5.0% Myrcene

CAS: 123-35-3

Classification (EC 1272/2008)

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319

<ul style="list-style-type: none"> - Aquatic Acute 1 - H400 - Aquatic Chronic 2 - H411
<p>≤ 4.0% p-Cymene CAS: 99-87-6 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Asp. Tox. 1 - H304 - Repr. 2 - H361 - Aquatic Chronic 2 - H411
<p>≤ 1.5% p-Mentha-1,4-diene (gamma-Terpinene) CAS: 99-85-4 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Flam. Liq. 3 - H226 - Repr. 2 - H361 - Aquatic Chronic 2 - H411
<p>≤ 1.0% beta-Caryophyllene CAS: 87-44-5 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Asp. Tox. 1 - H304 - Skin Sens. 1B - H317
<p>≤ 0.1% Terpinolene CAS: 586-62-9 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Asp. Tox. 1 - H304 - Skin Sens. 1B - H317 - Aquatic Acute 1 - H400 - Aquatic Chronic 1 - H410
<p>≤ 0.4% Geraniol CAS: 106-24-1 Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> - Skin Irrit. 2 - H315 - Skin Sens. 1 - H317 - Eye Dam. 1 - H318

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove to fresh air and remain in a position which is comfortable for breathing. Seek medical attention.
Ingestion	Do NOT induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Seek medical attention.
Skin Contact	Remove contaminated clothing and wash before reuse. Wash skin thoroughly with soap and water. If discomfort occurs/continues, seek medical attention.
Eye Contact	Rinse eyes with clean water for a minimum of fifteen minutes. If safe to do so, remove to contact lenses and continue to rinse. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed
<p>Skin Contact – Irritation. May cause an allergic skin reaction.</p> <p>Eye Contact – Eye irritation.</p> <p>Ingestion – Risk of lung oedema.</p>
4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
<p>Carbon Dioxide, Foam, Dry Chemical Powder.</p> <p>Do NOT use water.</p>
5.2 Special hazards arising from the product
This product is classified as ‘flammable liquid or vapour.’ Thermal decomposition may lead to irritating and toxic gases/vapours, including but not limited to oxides of carbon.
5.3 Advice for firefighters
Wear self-contained respiratory equipment and appropriate protective clothing at all times. Containers in close proximity to fires should be removed to a safe distance and the exterior of the container cooled with water.


06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure sufficient ventilation is available in all areas. Wear appropriate protective clothing at all times.
6.2 Environmental Precautions
Do not allow into drainage water, sewers, or any part of the environment including but not limited to bodies of water. Always collect spilled material.
6.3 Methods and material for containment and cleaning up.
Prevent further leakage or spillage if safe to do so. Take up mechanically, placing in appropriate containers for disposal.
6.4 Reference to other sections
Section 13

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
Adhere to all good health, safety and hygiene practices. If handling large/heavy packages or drums, ensure the use of suitable mechanical equipment at all times. Do not eat, drink or smoke whilst handling this product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wear personal protective equipment at all times. Do not breathe vapours or spray mist. Use only in areas where sufficient ventilation has been provided. Keep away from heat, sparks and open flame. Take necessary action to avoid static discharge (which might cause ignition of vapours).
7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area. Protect from freezing, heat and light including sunlight. Protect from all potential sources of ignition. Keep all containers tightly sealed when not in use. Prevent storing the product in open containers for long periods so as to prevent the formation of peroxides and product deterioration. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
7.3 Specific end use(s)
No additional data

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
No additional data	
8.2 Exposure controls	
Protective Equipment	
	
Process Conditions	No additional data
Engineering Measures	Install sufficient ventilation across all areas. Install readily available eyewash stations.
Respiratory Equipment	In the event of airborne contamination or ventilation failure ensure the use of suitable respiratory equipment/ protection.

Hand Protection	Wear appropriate protective and chemically resistant gloves at all times which comply with EN374.
Eye Protection	Wear appropriate protective eyewear at all times which complies with EN166. Do not allow contact with eyes.
Other Protection	No additional data
Hygiene Measures	Good hygiene practices are always recommended, especially when handling oils, chemicals or any other similar type of material.
Personal Protection	No additional data
Skin Protection	Wear appropriate protective and chemically resistant clothing at all times to prevent any potential skin contact with this product.
Environmental Exposure Controls	No additional data

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Liquid
Colour	Colourless – Pale Yellow – Green
Odour	Characteristic
Relative Density	~0.902 @ 20°C
Flash Point (°C)	48.0
Refractive Index	~1.465 @ 20°C
Melting Point (°C)	No additional data
Boiling Point (°C)	No additional data
Vapour Pressure	No additional data
Solubility in Water @20°C	Insoluble
Auto-ignition temperature (°C)	No additional data
9.2 Other information	
No additional data	

10. STABILITY AND REACTIVITY

10.1 Reactivity
This product is classed as Flammable Liquid and Vapour
10.2 Chemical stability
Expected to remain stable under recommended storage conditions.
10.3 Possible hazardous reactions
Not expected under recommended conditions.
10.4 Conditions to Avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5 Incompatible materials
Strong Acids, Alkalis, Oxidising Agents
10.6 Hazardous Decomposition Products
Not expected under normal temperature conditions and recommended use. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Not classified alpha-Pinene (CAS No: 80-56-8) LD50 oral 500 mg/kg bodyweight Myrcene (123-35-3) LD50 oral rat > 11390 mg/kg bodyweight Animal: rat LD50 oral > 3380 mg/kg bodyweight Animal: mouse LD50 dermal rabbit > 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) p-Mentha-1,3-diene (CAS No: 99-86-5) LD50 oral 1680 mg/kg bodyweight Eucalyptol (CAS No: 470-82-6) LD50 oral 2480 mg/kg bodyweight d-Limonene (CAS No: 5989-27-5) LD50 oral rat > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) LD50 dermal rabbit > 5000 mg/l read-across from supporting substance (structural analogue or surrogate)

	<p>p-Mentha-1,4-diene (CAS No: 99-85-4) LD50 oral 3850 mg/kg bodyweight</p> <p>p-Cymene (CAS No:99-87-6) LD50 oral 4750 mg/kg bodyweight</p> <p>Terpinolene (CAS No: 586-62-9) LD50 oral 3775 mg/kg bodyweight</p> <p>Linalool (CAS No: 78-70-6) LD50 oral 2790 mg/kg bodyweight</p> <p>4-Carvomenthenol (CAS No: 562-74-3) LD50 oral 1300 mg/kg bodyweight LD50 dermal 2500 mg/kg bodyweight</p> <p>alpha-Terpineol (CAS No: 98-55-5) LD50 oral 4300 mg/kg bodyweight</p> <p>Geraniol (CAS No:106-24-1) LD50 oral 3600 mg/kg bodyweight</p>
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	<p>Not classified.</p> <p>Myrcene (CAS No:123-35-3) LOAEL (oral, rat, 90 days) - 250 mg/kg bodyweight Animal: rat Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)</p> <p>NOAEL (subchronic, oral, animal/male, 90 days) - 500 mg/kg bodyweight Animal: mouse, Animal sex: male Guideline: OECD</p>

	<p>Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)</p> <p>NOAEL (subchronic, oral, animal/female, 90 days) - 250 mg/kg bodyweight</p> <p>Animal: mouse,</p> <p>Animal sex: female</p> <p>Guideline: OECD</p> <p>Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)</p> <p>d-Limonene (CAS No:5989-27-5)</p> <p>LOAEL (oral, rat, 90 days) - 1650 – 3300 mg/kg bodyweight/day</p> <p>NOAEL (subacute, oral, animal/male, 28 days) - 825 mg/kg bodyweight</p> <p>NOAEL (subacute, oral, animal/female, 28 days) - 1650 mg/kg bodyweight</p>
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data
Other Information	No additional data

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

d-Limonene (CAS No: 5989-27-5)

LC50 fish 1

- 720 µg/l Test organisms (species): Pimephales promelas

EC50 Daphnia

- 1 0.36 mg/l Test organisms (species): Daphnia magna

EC50 72h algae (1)

- 0.32 mg/l Test organisms (species): Desmodemus subspicatus (previous name: Scenedesmus subspicatus)

NOEC (chronic)

- 0.115 mg/l Test organisms (species): other:For freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex. Duration: '16 d'
12.2 Persistence & degradability
No additional data
12.3 Bioaccumulation Potential
No additional data
12.4 Mobility in soil
No additional data
12.5 Results of PBT and vPvB Assessment
No additional data
12.6 Other adverse effects
No additional data

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Always dispose of this product in accordance with local and national regulations. Do not allow entry into drains or waterways. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycling is always preferable to disposal. When containers have been emptied, ensure that labelling remains.

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	1169
UN No. SEA	1169
UN No. AIR	1169
14.2 UN proper shipping name	
	Extracts, Aromatic, Liquid
14.3 Transport hazard class(es)	
	ADR/RID

ADR/RID– Class 3

ADR Classification Code – F1

Special provisions – 601

Limited quantities – 5L

Expected quantities – E1

Emergency Action Code – 3Y

Tunnel Restriction Code – D/E

IMDG

IMDG – Class 3

Special Provisions – 601

Limited quantities – 5L

Expected quantities – E1

IMDG EMS – F-E, S-D

Stowage and Handling – Category A

ICAO/IATA

ICAO/IATA– Class 3

IATA proper shipping name - EXTRACTS, AROMATIC, LIQUID

Expected quantities – E1

Transport Labels

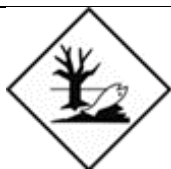


14.4 Packing group

III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant.



14.6 Special precautions for user

Section 6, 7, 8

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data

15. REGULATORY INFORMATION

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Workplace Exposure Limits EH40. CHIP for everyone HSG(108). 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, including amendments.

15.2 Chemical safety assessment

No additional data

16. OTHER INFORMATION

Hazard Statements in Full	H226 - Flammable liquid and vapour. H302 - Harmful if swallowed. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. 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.
Revision Date	08/12/2021
Rev No	3

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.