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Safety Data Sheet

Organic Cajeput Essential Oil (Melaleuca leucadendron)

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according to 1907/2006/EC, Article 31, amended by
Regulation (EU) No. 453/2010

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

1.1 Product identifier

Trade name: **Cajeput Oil Organic**

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

No further relevant information available.

Application of the substance / the mixture Flavour/Fragrance

1.3 Details of the supplier of the safety data sheet

NHR Organic Oils,
24 Chatham Place, Brighton, BN1 3TN, UK.

Further information obtainable from:

E mail: info@nhrorganicoils.com

1.4 Emergency telephone number:

+ 33 (0) 1 44 73 10 02 (Carechem 24*7)

For China: + 86 1051003039

For India: +65 31581198

For advice on chemical emergencies, spillages, fires or First Aid

National emergency telephone number :

Czech Republic: Toxikologické informační středisko (TIS), Klinika nemocí z povolání, Na Bojišti 1,
128 08 Praha 2, Tel – nonstop: + 420 224 919 293, + 420 224 915 402

France : Orfila 01.45.42.59.59

Netherlands: National vergiftigingen info centrum: 030-2748888

Denmark Giftlinien +45 82 12 12 12

Sverige +46 08-33 12 31

Norge Giftcentralen +47 22 59 13 00

Schweizerisches Toxikologisches Informationszentrum Telefon +41 145

Finland: Myrkytystietokeskus, puh. 09-471977 tai 09-4711/Myrkytystietokeskus

Vergiftungsinformationszentrale Wien Telefon +43 1 4064343

Romania: BIROUL PT REGULAMENTUL SANITAR INTERNATIONAL SI INFORMARE
TOXICOLOGICA: +4021 318 36 06

Serbia - Nacionalni centar za kontrolu trovanja: + 381 11 266 11 22

Turkey - Acil Sağlık Hizmetleri Genel Müdürlüğü: 114

Hungary - Health Toxicological Information Service, H-1096 Budapest, Nagyvárad tér 2: +36 80 20
11 99 (free of charge within Hungary)

Croatia - Broj telefona službe za izvanredna stanja: 112

Greece - ΤΗΛ. ΚΕΝΤΡΟΥ ΔΗΛΗΤΗΡΙΑΣΕΩΝ : 210-77.93.777

SLOVAKIA Nudzové telefónne číslo: Národné toxikologické informačné centrum, tel: 02/ 5477 4166

Russia - Toxicological Information Centre: 8 (495) 621-68-85; 8 (495) 621-68-85

BULGARIA - Национален токсикологичен информационен център, Многопрофилна болниц
а за активно лечение и спешна медицина "Н.И.Пирогов" Телефон за спешни случаи / факс:
+359 2 9154 409, E-mail: poison_centre@mail.orbitel.bg

UKRAINE - National Toxicology Center, Clinical Emergency Hospital (toxicology department), 3
Bratislavskaya str., Kyiv, Ukraine. Tel./ Fax: +38 044 527-69-81

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SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 1 H310 Fatal in contact with skin.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS06 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**

d-Limonene (p-Mentha-1,8-diene)

Alpha

Pinene beta-

Pinene

- **Hazard statements**

H226 Flammable liquid and vapour.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H411 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.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...

P302+P352 IF ON SKIN: Wash with plenty of water/...

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients


































- **3.2 Chemical characterization: Mixtures**

- **Dangerous components:**

CAS: 470-82-6 EINECS: 207-431-5	Cineols R10 Flam. Liq. 3, H226	≤ 67%
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CAS: 98-55-5 EINECS: 202-680-6	Alpha terpineol  Xi R36/38  Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤ 18%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7 RTECS: GW 6360000	d-Limonene (p-Mentha-1,8-diene)  Xn R65  Xi R38  Xi R43  N R50/53 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; Skin Sens. 1, H317	< = 13%
CAS: 99-85-4 EINECS: 202-794-6	Gamma-Terpinene (p-Mentha-1,4diene)  Xn R65 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304	≤ 7%
CAS: 586-62-9 EINECS: 209-578-0	p-mentha-1,4(8)-diene  Xn R65  N R51/53 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411	≤ 7%
CAS: 99-87-6 EINECS: 202-796-7 RTECS: GZ 5950000	p-cymene  Xn R65  N R51/53 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411	≤ 4%
CAS: 123-35-3 EINECS: 204-622-5 RTECS: RG 5365000	Myrcene [7-methyl-3-methyleneocta-1,6-diene]  Xn R65 R10-52/53  Flam. Liq. 3, H226  Asp. Tox. 1, H304 Aquatic Chronic 3, H412	≤ 6%
CAS: 80-56-8 EINECS: 201-291-9	Alpha Pinene  Xn R65  Xi R43  N R50/53 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Sens. 1, H317	≤ 5%

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CAS: 87-44-5 EINECS: 201-746-1	caryophyllene  Xn R65  Asp. Tox. 1, H304	≤ 5%
CAS: 127-91-3 EINECS: 204-872-5	beta-Pinene  Xn R65  Xi R43  N R50/53 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Sens. 1, H317	≤ 5%
CAS: 78-70-6 EINECS: 201-134-4 RTECS: RG 5775000	Linalool  Xi R38  Skin Irrit. 2, H315	≤ 5%
CAS: 99-86-5 EINECS: 202-795-1	Alpha terpinene  Xn R22-65  N R51/53 R10  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Acute Tox. 4, H302	≤ 3%
CAS: 562-74-3 EINECS: 209-235-5	Terpinene 4-ol  Xn R22  Xi R36/38  Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤ 3%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Seek medical treatment in case of complaints.

· **After inhalation:**

Supply fresh air.

Seek medical treatment.

· **After skin contact:**

Remove contaminated clothing.

Flush with plenty of water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Remove contact lenses.

If irritation persists seek medical advice

· **After swallowing:**

Rinse mouth thoroughly.

General first aid, rest, warmth and fresh air.

Do not induce vomiting unless directed to do so by medical personnel.

Seek medical treatment.

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If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Carbon dioxide

Dry Chemical Powder

· **For safety reasons unsuitable extinguishing agents:** *Water*

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

In the event of fire and/or explosion do not breathe fumes.

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation

Do not smoke.

Avoid contact with eyes and skin

Eye wash facilities and emergency shower must be available when handling this product.

· **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*

· **6.3 Methods and material for containment and cleaning up:**

The product might be absorbed by inert material.

Send for disposal in a suitable container

Dispose of the material collected according to regulations.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Usual safety precautions should be observed to ensure safe handling.

Ensure good ventilation/exhaustion at the workplace.

Avoid inhalation of vapours.

Do not swallow.

Avoid contact with eyes and skin.

Smoking, eating and drinking should be prohibited in the application area.

Wash hands before breaks and at the end of work.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.
Keep away from open flames.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in dry conditions.

Keep container tightly sealed.

Store under nitrogen.

Protect from light.

Keep away from heat.

Avoid temperature variation

Do not reuse empty packaging to store other products.

Empty container contains residual product which may exhibit hazard of product.

· **Information about storage in one common storage facility:**

Store away from incompatible substances (refer to section 10).

· **Further information about storage conditions:** Keep container tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

80-56-8 Alpha Pinene (1-5%)

TLV (USA)	Long-term value: 112 mg/m ³ , 20 ppm
	SEN

127-91-3 beta-Pinene (1-5%)

TLV (USA)	Long-term value: 112 mg/m ³ , 20 ppm
	SEN

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Local exhaust ventilation required.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Eyewash and safety shower facilities should be available when handling this product.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

NIOSH or European Standard EN 149 approved respirator

· **Protection of hands:**



Protective gloves.

DIN/EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

Nitrile rubber, NBR

Polyvinyl Alcohol

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

(EN 166)

- **Body protection:** Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· Form:	Liquid
· Colour:	pale yellow
· Odour:	Fresh, cineol, aromatic.
· Odour threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.

- **Flash point:** 48 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:**

· **Decomposition temperature:** Undetermined.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

- **Vapour pressure:** Not determined.

- **Density:** Not determined.

- **Relative density at 20 °C** 0.905 - 0.920

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

- **Chloroform:**
- **alcohols:**

Soluble

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.
- **Refractive index:** 1.460 - 1.475

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (See section 7).
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Avoid heat, flame and other sources of ignition.
Light.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

Oral	LD50	3870 mg/kg (rat)
Dermal	LD50	≥ 5000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **ingestion:** May be fatal if swallowed and enters airways.
- **inhalation:** May cause irritation.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

EC50/48h	30.40 mg/l (Daphnia)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxic effects:**
- **Remark:** Toxic for fish

- **Additional ecological information:**
- **General notes:**
Toxic to aquatic life with long lasting effect
Avoid transfer into the environment.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Dispose of in accordance with Local Authority requirements.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	UN1169
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA 	1169 EXTR ACTS, AROMATIC , LIQUID, ENVIRONMENTALLY HAZARDOUS, special provision 640E EXTRACTS, AROMATIC, LIQUID (CYMENES, d-Limonene (p- Mentha- 1,8- diene)), MARINE POLLUTANT EXTRACTS, AROMATIC, LIQUID
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	III

· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: d-Limonene (p-Mentha-1,8-diene)
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	30
· EMS Number:	F-E,S-D
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1169, EXTRACTS, AROMATIC, LIQUID, special provision 640E, ENVIRONMENTALLY HAZARDOUS, 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard statements** Please refer section 2.
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this information is for general information only and shall not establish a legally binding contract.

- **Relevant phrases**
- 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.
- H319 Causes serious eye irritation.
- 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.
- H412 Harmful to aquatic life with long lasting effects.
- R10 Flammable.
- R22 Harmful if swallowed.

R36/38 Irritating to eyes and

skin. R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· * **Data compared to the previous version altered.**