





## Material Safety Data Sheet

### Cajaput Oil

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

<b>1.1 Product Identifier</b>					
Product Name		Cajaput Oil.			
Biological Definition		Melaleuca Leucadendron Cajaputi Oil is the volatile oil obtained from <i>Melaleuca leucadendron L. var. cajaputi, Myrtaceae.</i>			
INCI Name		Melaleuca Leucadendron Cajaputi Oil.			
Synonyms & Trade Names -					
CAS-No	85480-37-1	EC No.	287-316-4	EINECS No.	287-316-4
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
Cosmetics Flavours Fragrances.					
<b>1.3 Details of the supplier of the safety data sheet</b>					
NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR					
<b>1.4 Emergency Tel. No.</b>			+44(0)1603 610883		

#### 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>			
The Full Text for all Hazard Statements is displayed in Section 16.			
Classification (EC 1272/2008)			
Aspiration toxicity Category 1 - (H304). Skin corrosion/irritation Category 2 - (H315). Serious eye damage/eye irritation Category 2 - (H319). Skin sensitization Category 1B - (H317). Chronic aquatic toxicity Category 2 - (H411). Flammable liquids Category 3 - (H226).			
<b>2.2 Label Elements</b>			
Label in accordance with (EC) No 1272/2008			
GHS02	GHS08	GHS07	GHS09
			
Signal Word		Danger.	
Contains		-	
<b>Hazard Statements</b>			
H315 - Causes skin irritation. H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects. H304 - May be fatal if swallowed and enters airways. H226 - Flammable liquid and vapour.			

## Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 - If eye irritation persists: Get medical advice/attention.  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P331 - Do NOT induce vomiting.  
 P273 - Avoid release to the environment.

## Supplementary Precautionary Statements

None.

## 2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	Toxic to aquatic life.
Adverse effects on human health	May be harmful if swallowed May be harmful in contact with skin.

## 03.COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures	
<b>50.0 - 70.0% Eucalyptol</b>	CAS-No.: 470-82-6 EC No.: 207-431-5 Classification (EC 1272/2008) Skin Irrit. 3 (316) (EFFA), Acute Tox. 5 (H303)(EFFA), Flam. Liq. 3 (H226)(EFFA), Skin Irrit. 3 (H316), Acute Tox. 5 (H303)
<b>5.0 - 15.0% Alpha-Terpineol</b>	CAS-No.: 98-55-5 EC No.: 202-680-6 Classification (EC 1272/2008) Aquatic Acute 2 (H401) (EFFA), Eye Irrit. 1 (H319) (EFFA), Skin Irrit. 2 (315) (EFFA), Acute Tox. 5(H303)(EFFA), Flam. Liq. 4 (H227)(EFFA), Eye Irrit. 1 (H319), Skin Irrit. 2 (H315) Acute Tox. 5 (H303)
<b>1.0 - 10.0% D-Limonene</b>	CAS-No.: 5989-27-5 EC No.: 227-813-5 Classification (EC 1272/2008) Aquatic Acute 1 (H400), Skin Sens. 1(H317), Skin Irrit. 2 (315), Asp. Tox. 1 (H304), Aquatic Chronic 1 (H410), Flam. Liq. 3 (H226)
<b>1.0 - 5.0% Linalool</b>	CAS-No.: 78-70-6 EC No.: 201-134-4 Classification (EC 1272/2008) Aquatic Acute 3 (H402) (EFFA), Eye Irrit. 1 (H319) (EFFA), Skin Irrit. 2 (315) (EFFA), Acute Tox. 5 (H303)(EFFA), Flam. Liq. 4 (H227)(EFFA), Aquatic Acute 3 (H402), Eye Irrit. 1 (H319), Skin Irrit. 2 (H315), Acute Tox. 5 (H303)
<b>1.0 - 3.0% Alpha-Pinene</b>	CAS-No.: 80-56-8 EC No.: 201-291-9 Classification (EC 1272/2008) Acute Aquatic 1(H400), Chronic Aquatic 1 (H410), Skin Sens. 1 (H317) (EFFA), Skin Irrit. 2 (315) (EFFA), Asp. Tox. 1 (H304) (EFFA), Acute Tox. 5 (H303)(EFFA), Flam. Liq. 3 (H226) (EFFA), Skin Sens. 1 (H317), Skin Irrit. 2 (H315), Acute Tox. 5 (H303)
<b>1.0 - 3.0% Myrcene</b>	CAS-No.: 123-35-3 EC No.: 204-622-5 Classification (EC 1272/2008) Eye Irrit. 1 (H319) (EFFA), Skin Irrit. 2 (315) (EFFA), Asp. Tox. 1 (H304) (EFFA), Eye Irrit. 1 (H319), Skin Irrit. 2 (H315)
<b>1.0 - 3.0% Beta-Pinene</b>	CAS-No.: 127-91-3 EC No.: 204-872-5 Classification (EC 1272/2008) Aquatic Acute 2 (H401) (EFFA), Eye Irrit. 1 (H319) (EFFA), Skin Irrit. 2 (315) (EFFA), Acute Tox. 5(H303)(EFFA), Flam. Liq. 4 (H227)(EFFA), Eye Irrit. 1 (H319), Skin Irrit. 2 (H315) Acute Tox. 5 (H303)

## 04. FIRST AID MEASURES

4.1	Description of first aid measures
Inhalation	Remove to fresh air.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye Contact	No additional data available.
<b>4.2</b>	<b>Most important symptoms and effects, both acute and delayed</b>
	None known.
<b>4.3</b>	<b>Indication of any immediate medical attention and special treatment needed</b>
	Treat symptomatically.

## 05. FIRE-FIGHTING MEASURES

<b>5.1</b>	<b>Extinguishing Media</b>
	Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media No information available.
<b>5.2</b>	<b>Special hazards arising from the product</b>
	Thermal decomposition can lead to release of irritating and toxic gases and vapours.
<b>5.3</b>	<b>Advice for firefighters</b>
	Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## 06. ACCIDENTAL RELEASE MEASURES



<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b>
	Personal precautions Ensure adequate ventilation, especially in confined areas. For emergency responders Use personal protection recommended in Section 8.
<b>6.2</b>	<b>Environmental Precautions</b>
	Collect spillage.
<b>6.3</b>	<b>Methods and material for containment and cleaning up.</b>
	Methods for Containment: Prevent further leakage or spillage if safe to do so. Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal.
<b>6.4</b>	<b>Reference to other sections</b>
	See Section 12: ECOLOGICAL INFORMATION.

## 07. HANDLING AND STORAGE

<b>7.1</b>	<b>Precautions for safe handling</b>
	Ensure adequate ventilation, especially in confined areas. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>
	Keep container tightly closed in a dry and well-ventilated place.
<b>7.3</b>	<b>Specific end use(s)</b>
	Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters					
Chemical Name	European Union	United Kingdom	France	Spain	Germany
D-Limonene	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	TWA: 5ppm TWA: 28 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m <sup>3</sup>
Alpha-Pinene	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 20ppm TWA: 113mg/m <sup>3</sup>	-
Myrcene	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	-	-
Beta-Pinene	-	-	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 20ppm TWA: 113mg/m <sup>3</sup>	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Limonene	-	-	-	TWA: 25ppm TWA: 140 mg/m <sup>3</sup> STEL: 50ppm STEL: 280 mg/m <sup>3</sup>	-
Alpha-Pinene	-	TWA: 20ppm	-	-	-
Beta-Pinene	-	TWA: 20ppm	-	-	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
D-Limonene	-	STEL: 14ppm STEL 80 mg/m <sup>3</sup> TWA: 7ppm TWA: 40 mg/m <sup>3</sup>	-	TWA: 25ppm TWA: 140 mg/m <sup>3</sup> TEL: 25 ppm STEL: 140 mg/m <sup>3</sup>	-
Alpha-Pinene	-	-	-	TWA: 25ppm TWA: 140 mg/m <sup>3</sup> TEL: 25 ppm STEL: 140 mg/m <sup>3</sup>	-
Myrcene	-	-	-	TWA: 40ppm TWA: 275	-

				mg/m3 TEL: 40 ppm STEL: 275 mg/m3	
Beta-Pinene	-	-	-	TWA: 25ppm TWA: 140 mg/m3 TEL: 25 ppm STEL: 140 mg/m3	-
Derived No Effect Level (DNEL)	No information available				
Predicted No Effect Concentration (PNEC)	No information available.				
<b>8.2 Exposure controls</b>					
Protective Equipment					
 					
Process Conditions	No additional data available.				
Engineering Measures	Ensure adequate ventilation, especially in confined areas.				
Respiratory Equipment	No additional data available.				
Hand Protection	No additional data available.				
Eye Protection	Tight sealing safety goggles.				
Other Protection	No additional data available.				
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.				
Personal Protection	No additional data available.				
Skin Protection	Suitable protective clothing.				
Environmental Exposure Controls	No additional data available.				

## 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Clear mobile liquid.
Colour	Liquid , light yellow.
Odour	Characteristic.
Relative Density	0.905 – 0.935 @ 20°C.
Flash Point (°C)	46 °C
Refractive Index	1.461 – 1.472 @ 20°C.
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.

<b>9.2 Other information</b>	
No additional data available.	

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	
No additional data available.	
<b>10.2 Chemical stability</b>	
Stable under the recommended handling and storage conditions.	
Sensitivity to Mechanical Impact: None	
Sensitivity to Static Discharge: None	
<b>10.3 Possible hazardous reactions</b>	
None under normal processing.	
<b>10.4 Conditions to Avoid</b>	
Avoid heat, sparks and open flames.	
<b>10.5 Incompatible materials</b>	
No additional data available.	
<b>10.4 Hazardous Decomposition Products</b>	
None under normal use conditions.	

## 11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	<p>Product does not present an acute toxicity hazard based on known or supplied information.</p> <p>Inhalation No data available.</p> <p>Eye Contact No data available.</p> <p>Skin contact No data available.</p> <p>Ingestion No data available.</p> <p>The following values are calculated based on chapter 3.1 of the GHS document</p> <p>ATEmix (oral) 2,692.00</p> <p>ATEmix (dermal) 5,000.00</p> <p>Unknown acute toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity. 22.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity. 98.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity. 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)</p> <p><b>Eucalyptol</b> Oral LD50 = 2480 mg/kg (rat)</p> <p><b>Alpha-Terpineol</b> Oral LD50 = 5170 mg/kg (rat)</p> <p><b>D-Limonene</b> Oral LD50 = 4400 mg/kg (rat) Dermal LD50 &gt;5 g/kg (rabbit)</p> <p><b>Linalool</b> Oral LD50 = 2790 mg/kg (rat) Dermal LD50 = 5610 mg/kg (rat)</p> <p><b>Alpha-Pinene</b> Oral LD50 = 3700 mg/kg (rat) Dermal LD50 &gt; 5000 mg/kg (rat)</p> <p><b>Myrcene</b> Oral LD50 &gt;5 g/kg (rat) Dermal LD50 &gt;5 g/kg (rabbit)</p> <p><b>B-Pinene</b> Oral LD50 = 4700 mg/kg (rat)</p>
Skin corrosion / irritation	No additional data available.
Serious eye damage / irritation	No additional data available.



Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No additional data available.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.



## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>			
Chemical Name	Algae/aquatic plants	Fish	Crustacea
Eucalyptol	-	95.4 - 109: 96 h Pimephales promelas mg/L LC50 flow-through	-
D-Limonene	-	0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	-
Linalool	88.3: 96 h Desmodesmus subspicatus mg/L EC50	22 - 46: 96 h Leuciscus idus mg/L LC50 static	20: 48 h Daphnia magna mg/L EC50
Alpha-Pinene	-	0.28: 96 h Pimephales promelas mg/L LC50 static	41: 48 h Daphnia magna mg/L LC50
<b>12.2 Persistence &amp; degradability</b>			
No additional data available.			
<b>12.3 Bioaccumulation Potential</b>			
No additional data available.			
<b>12.4 Mobility in soil</b>			
No additional data available.			
<b>12.5 Results of PBT and vPvB Assessment</b>			
No additional data available.			
<b>12.6 Other adverse effects</b>			
No additional data available.			

## 13. DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>
Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

## 14. TRANSPORT INFORMATION

<b>14.1 UN number</b>	
UN No. Road	1169
UN No. SEA	1169
UN No. AIR	1169
<b>14.2 UN proper shipping name</b>	
Extracts, Aromatic, Liquid.	
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN Class:	Class 3
ICAO Class/Division:	Class 3
IMDG Class:	Class 3
Transport Labels	
	
<b>14.4 Packing group</b>	
IMDG Packing group	III
ADR/RID/ADN Packing group	III
ICAO Packing group	III
<b>14.5 Environmental hazards</b>	
Environmentally Hazardous Substance/Marine Pollutant	
	
<b>14.6 Special precautions for user</b>	
None	
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	
EmS-No F-E, S-D	
Classification code B1, IB3	
Tunnel restriction code T2, TP1	

## 15. REGULATORY INFORMATION

<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
	<p>Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG(108). EU Legislation 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.</p>
<b>15.2</b>	<b>Chemical safety assessment</b>
	No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>H319 - Causes serious eye irritation. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H400 - Very toxic to aquatic life. H410 - Very toxic to aquatic life with long lasting effects. H317 - May cause an allergic skin reaction. H226 - Flammable liquid and vapour. H402 - Harmful to aquatic life. H303 - May be harmful if swallowed. H227 - Combustible liquid. H401 - Toxic to aquatic life.</p>
Other Information	None.
Revision Date	27/04/2018
Reason for revision	Updated New Format SDS.
Rev No/Repl, SDS Generated	02

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