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## MATERIAL SAFETY DATA SHEET

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

<b>1.1 Product Identifier</b>					
Product Name		Eucalyptus Oil Smithii			
Biological Definition		Eucalyptus Smithii Leaf Oil is an essential oil obtained from the fresh leaves of the Eucalyptus, <i>Eucalyptus smithii</i> , <i>Myrtaceae</i> . Its chief constituent is eucalyptol.			
INCI Name		Eucalyptus Smithii Leaf Oil			
Synonyms & Trade Names					
CAS-No	91771-68-5	EC No.	294-962-0	EINECS No.	294-962-0
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
Suitable for cosmetic, flavour, fragrance and professional use only.					
<b>1.3 Details of the supplier of the safety data sheet</b>					
<b>1.4 Emergency Tel. No.</b>					

### 02. HAZARD IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>			
The full text for all Hazard Statements displayed in Section 16.			
Classification (EC 1272/2008)			
Physical hazards:	Flam. Liq. 3 - H226		
Health hazards:	Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1B - H317		
Environmental hazards:	Aquatic Chronic 2 - H411		
<b>2.2 Label Elements</b>			
Label in accordance with (EC) No 1272/2008			
GHS02	GHS08	GHS07	GHS09
			
Signal Word		Danger	
Contains		Alpha-Pinene, d-Limonene, p-cymene.	
Hazard Statements			
H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.			

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H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
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.  
P240 Ground and bond container and receiving equipment.  
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.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use carbon dioxide, dry chemical, foam to extinguish.  
P391 Collect spillage.

## Supplementary Precautionary Statements

P264 Wash hands and exposed skin thoroughly after handling.

## 2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

**75.0 – 85.0% 1,8-Cineol (Eucalyptol)**  
**CAS-No: 470-82-6 EC No: 207-431-5**  
**Classification (EC 1272/2008):**  
- Flam. Liq. 3 – H226  
- Skin Sens. 1B - H317

**<10.0% Limonene**  
**CAS-No: 5989-27-5 EC No: 227-813-5**  
**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

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**<6.0% para-Cymene**

**CAS-No: 99-87-6 EC No: 202-796-7**

**Classification (EC 1272/2008):**

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- STOT SE 3 - H335

**<5.0% alpha-Pinene**

**CAS-No: 80-56-8 EC No: 201-291-9**

**Classification (EC 1272/2008):**

- 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

**<2.0% alpha-Terpineol**

**CAS-No: 98-55-5 EC No: 202-680-6**

**Classification (EC 1272/2008):**

- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319

**<2.0% gamma-Terpinene**

**CAS-No: 99-85-4 EC No: 202-794-6**

**Classification (EC 1272/2008):**

- Flam. Liq. 3 - H226
- Repr. 2 - H361
- Aquatic Chronic 2 - H411

**<1.5% Myrcene**

**CAS-No: 123-35-3 EC No: 204-622-5**

**Classification (EC 1272/2008):**

- Flam. Liq. 3 - H226
- Asp. Tox. 1 - H304
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

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<1.5% beta-Pinene

CAS-No: 127-91-3

EC No: 204-872-5

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

## 04. FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.

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

No additional data available.

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

Treat symptomatically.

## 05. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

Extinguish with the following media: carbon dioxide, dry chemical, foam.

Unsuitable extinguishing media: do not use water jet as an extinguisher, as this may scatter and spread fire.

### 5.2 Special hazards arising from the product

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), other toxic gases. Containers close to fire should be removed or cooled with water.

### 5.3 Advice for firefighters

Special Fire Fighting Procedures	Water is unsuitable to use as an extinguishing method.
Protective equipment for fire-fighters	Wear suitable respiratory equipment when necessary.

## 06. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective clothing.

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## 6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground. Keep away from surface and ground water.

## 6.3 Methods and material for containment and cleaning up.

Absorb with liquid binding material e.g. sand, diatomaceous earth.  
Collect in closed and suitable containers for disposal. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent.

## 6.4 Reference to other sections

See sections 4, 7, 8 & 13.

## 07. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation. Keep away from heat, sparks and open flame. Take necessary action to avoid static discharge as this might cause ignition of vapours.

### 7.2 Conditions for safe storage, including any incompatibilities

Avoid contact with skin, eyes and clothing. Avoid breathing vapours.

### 7.3 Specific end use(s)

No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No additional data available.

### 8.2 Exposure controls

#### Protective Equipment



#### Process Conditions

No additional data available.

#### Engineering Measures

Provide adequate ventilation.

#### Respiratory Equipment

Self-contained breathing apparatus.

#### Hand Protection

Chemical resistant gloves required for prolonged or repeated contact.

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Eye Protection	Wear approved safety goggles.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
Personal Protection	No additional data available.
Skin Protection	Wear appropriate protective clothing to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been exposed must be washed thoroughly.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

### 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Mobile liquid, colourless to pale yellow.
Colour	Colourless to pale yellow.
Odour	Characteristic
Relative Density	Approx. 0.915 @ 20°C
Flash Point (°C)	49°C
Refractive Index	Approx. 1.462 @ 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>	
Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.	
<b>10.2 Chemical stability</b>	
Stable under the recommended handling and storage conditions in section 7.	
<b>10.3 Possible hazardous reactions</b>	
Not expected under normal conditions of use.	
<b>10.4 Conditions to Avoid</b>	
Heat, sparks and open flames.	
<b>10.5 Incompatible materials</b>	
Avoid contact with strong acids, alkalis or oxidising agents.	

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## 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. (Calculation method)
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Not classified.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

### 12.2 Persistence & degradability

No additional data available.

### 12.3 Bioaccumulation Potential

No additional data available.

### 12.4 Mobility in soil

No additional data available.

### 12.5 Results of PBT and vPvB Assessment

No additional data available.

### 12.6 Other adverse effects

No additional data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Dispose of in compliance with all local and national regulations.

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## 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 604E  
 Limited quantities – 5L  
 Expected quantities – E1  
 Emergency Action Code – 3Y  
 Tunnel Restriction Code – D/E

#### IMDG

IMDG – Class 3  
 Special Provisions – 601 640E  
 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

ADR/RID Packing group	III
IMDG Packing group	III
ICAO Packing group	III

### 14.5 Environmental hazards



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Environmentally Hazardous Substance/Marine Pollutant.



## 14.6 Special precautions for user

See section 6 to 8.

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

Packed and transferred according to transport regulations.

## 15. REGULATORY INFORMATION

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

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.

### 15.2 Chemical safety assessment

No additional information available.

## 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. H319 Causes serious eye irritation. H335 May cause respiratory irritation. 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	15/11/2019
Rev No	2

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**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.