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

1.1 Product Identifier

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Buchu Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Definition</td>
<td>Barosma Betulina Leaf Oil is the volatile oil expressed from the leaves of <em>Barosma betulina, Rutaceae</em></td>
</tr>
<tr>
<td>INCI Name</td>
<td>Barosma Betulina Leaf Oil</td>
</tr>
<tr>
<td>Synonyms &amp; Trade Names</td>
<td>Agathosma betulina (buchu) leaf oil</td>
</tr>
<tr>
<td>CAS-No</td>
<td>84649-93-4</td>
</tr>
<tr>
<td>EC No.</td>
<td>283-474-3</td>
</tr>
<tr>
<td>EINECS No.</td>
<td>283-474-3</td>
</tr>
</tbody>
</table>

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

No additional data available.

1.3 Details of the supplier of the safety data sheet

Oils4life Limited, 26 Blake Drive, Bradwell, Great Yarmouth, Norfolk, NR31 9GW.

1.4 Emergency Tel. No. + 44 (0) 1493 600045

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The Full Text for all Hazard Statements displayed in Section 16.

Classification (EC 1272/2008)

- Physical hazards: Not Classified
- Health hazards: Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304
- Environmental hazards: Aquatic Chronic 2 - H411
- Human health: Fatal if swallowed. The liquid may be irritating to skin.
- Environmental: The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

![GHS07, GHS08, GHS09]

Signal Word | Danger.
--- | ---
Contains | d,l-Isomenthone, (S)-p-mentha-1,8-diene, Menthone, 1, 8 cineole, p-Mentha-8-thiol-one, Alpha Pinene, Beta Pinene

Hazard Statements

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
Precautionary Statements

P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
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.
P311 Specific treatment (see medical advice on this label).
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Supplementary Precautionary Statements
None.

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

3.2 Mixtures

10.0 – 30.0% d,l-Isomenthone CAS-No.: 491-07-6 EC No.: 207-727-4
Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317

10.0 – 30.0% Limonene CAS: 5989-27-5, EC: 227-813-8
Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

10.0 – 30.0% Menthone CAS: 10458-14-7, EC: 233-944-9
Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317

5.0 – 10.0% 1.8-Cineole CAS-No.: 470-82-6 EC No.: 207-431-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Eye Irrit. 2 - H319

1.0 – 5.0% p-Mentha-8-thiol-one CAS: 38462-22-5, EC: -
Classification (EC 1272/2008) –
04. FIRST AID MEASURES

4.1 Description of first aid measures

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Remove contaminated clothing. Wash skin with soap and water. Get medical attention if any discomfort continues.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.</td>
</tr>
</tbody>
</table>

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

No additional data available.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: Use as appropriate carbon dioxide (CO2), dry chemical or foam
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the product

Specific hazards: The product is flammable. When heated to decomposition, its emits acrid smoke as well as carbon monoxide and carbon dioxide.
5.3 Advice for firefighters

Special protective equipment for firefighters: Wear full protective clothing

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin. No smoking, sparks, flames or other sources of ignition near spillage. For personal protection, see Section 8.

6.2 Environmental Precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3 Methods and material for containment and cleaning up.

Methods for cleaning up: Absorb spillage with inert, damp, non-combustible material. Eliminate all sources of ignition. Dispose of contents/container in accordance with international regulations.

6.4 Reference to other sections

No additional data available.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid spilling. Avoid inhalation of vapours.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep air contact to a minimum.

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

<table>
<thead>
<tr>
<th>Process Conditions</th>
<th>No additional data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Measures</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Respiratory Equipment</td>
<td>If ventilation is inadequate, suitable respiratory protection must be worn.</td>
</tr>
<tr>
<td>Hand Protection</td>
<td>Chemical resistant gloves (PVC)</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Wear approved safety goggles.</td>
</tr>
<tr>
<td>Other Protection</td>
<td>Wear protective clothing.</td>
</tr>
<tr>
<td>Hygiene Measures</td>
<td>Good personal hygiene practices are always advisable, especially when working with chemicals/oils. Keep away from foodstuffs, beverages and feed.</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Skin Protection</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Environmental Exposure Controls</td>
<td>Avoid discharging into drainage water. Only eliminate by authorised companies.</td>
</tr>
</tbody>
</table>
09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Mobile liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Pale Yellow to Greenish.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.900 – 0.940 @ 20°C</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>60°C</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.460 to 1.485 @ 20°C</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Solubility in Water @20°C</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Auto-ignition temperature (°C)</td>
<td>No additional data available.</td>
</tr>
</tbody>
</table>

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to Avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Acids. bases Strong oxidising agents.

10.6 Hazardous Decomposition Products

When heated to decomposition, it emits acrid smoke, fumes as well as monoxide and carbon dioxide.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>Acute toxicity - oral ATE oral (mg/kg) 500.0</td>
</tr>
<tr>
<td>Skin corrosion / irritation</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Serious eye damage / irritation</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Photo-toxicity</td>
<td>No additional data available.</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

12.1 Toxicity
Dangerous for the environment. May cause long lasting harmful effects to aquatic life.

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
DISPOSAL METHODS
Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN number
| UN No. Road | 3082. |
| UN No. SEA | 3082. |
| UN No. AIR | 3082. |

14.2 UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)
ADR/RID class 9
ADR/RID classification code M6
ADR/RID label 9
IMDG class 9
ICAO class/division 9
ADN class 9.

Transport Labels

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
14.4 Packing group

- ADR/RID packing group III
- IMDG packing group III
- ADN packing group III
- ICAO packing group III.

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant.

14.6 Special precautions for user

- EmS F-A, S-F
- ADR transport category 3
- Emergency Action Code •3Z
- Hazard Identification Number 90
  (ADR/RID)
- Tunnel restriction code (E).

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

No additional data available.

15. REGULATORY INFORMATION

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

- Statutory Instruments

- Guidance Notes
  Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

- EU Legislation
  concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary 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.
- H400 Very toxic to aquatic life.
<table>
<thead>
<tr>
<th>Other Information</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>24/03/16</td>
</tr>
<tr>
<td>Reason for revision</td>
<td>New SDS</td>
</tr>
<tr>
<td>Rev No/Repl, SDS Generated</td>
<td>01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H410 Very toxic to aquatic life with long lasting effects.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H411 Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

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