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Safety Data Sheet

Wild Grown Elemi (Canarium luzonicum)

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

| 1.1 Product Identifier | | | | | |
|--|-----|--|-----|------------|-----|
| Product Name | | Elemi Oil Wild | | | |
| Biological Definition | | "Elemi Resin Oil". Canarium Luzonicum Gum Oil is an essential oil obtained from the resin exudate of the Elemi, <i>Canarium luzonicum syn. C. commune, Burseraceae</i> . | | | |
| INCI Name | | Canarium Luzonicum Gum Oil | | | |
| Synonyms & Trade Names | | - | | | |
| CAS-No | n/a | EC No. | n/a | EINECS No. | n/a |
| 1.2 Relative identified uses of the substance or mixture and uses advised against | | | | | |
| Suitable for use in cosmetics, fragrances, flavourings and professional applications only. | | | | | |
| 1.3 Details of the supplier of the safety data sheet | | | | | |
| | | | | | |
| 1.4 Emergency Tel. No. | | | | | |

02. HAZARDS IDENTIFICATION

| 2.1 Classification of the substance or mixture | | | |
|---|---|-------|-------|
| The full text for all hazard statements displayed in section 16. <u>Human health</u> May be fatal if swallowed and enters airways. The liquid may be irritating to skin. May cause sensitisation or allergic reactions in sensitive individuals. <u>Environmental</u> The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Physicochemical Flammable liquid | | | |
| Classification (EC 1272/2008) | | | |
| Physical hazards: | Flam. Liq. 3 - H226 | | |
| Health hazards: | Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317 | | |
| Environmental hazards: | Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | | |
| 2.2 Label Elements | | | |
| Label in accordance with (EC) No 1272/2008 | | | |
| GHS02 | GHS08 | GHS07 | GHS09 |
| | | | |

| | |
|--|--|
| Signal Word | Danger. |
| Contains | d-Limonene, alpha-Phellandrene, p-Cymene, alpha- Pinene, beta-Pinene, alpha- Terpinolene |
| Hazard Statements | |
| <p>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. H410 Very toxic to aquatic life with long lasting effects.</p> | |
| Precautionary Statements | |
| <p>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. P331 Do NOT induce vomiting. P391 Collect spillage. P262 Do not get in eyes, on skin, or on clothing.</p> | |
| Supplementary Precautionary Statements | |
| <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground/ bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. 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/ shower. P321 Specific treatment (see medical advice on this label). 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. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.</p> | |
| 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 | | |
| < 65% d-Limonene | CAS-No: 5989-27-5 | EC No: 227-813-5 |
| <p>Classification (EC 1272/2008): M factor (Acute) = 1 M factor (Chronic) = 1 Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</p> | | |

| | | |
|---|------------------|------------------|
| 5-15% alpha- Phellandrene | CAS-No: 99-83-2 | EC No: 202-792-5 |
| Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304 | | |
| 1-5% 1,8 Cineole | CAS-No: 470-82-6 | EC No: 207-431-5 |
| Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Sens. 1B - H317 | | |
| 1-5% p-menth-1-en-8-ol | CAS-No: 98-55-5 | EC No: 202-680-6 |
| Classification (EC 1272/2008): Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 | | |
| 1-4% p-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 | | |
| < 5% alpha- Terpinolene | CAS-No: 586-62-9 | EC No: 209-578-0 |
| Classification (EC 1272/2008): M factor (Acute) = 1 M factor (Chronic) = 1 Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410 | | |
| < 1% alpha- Pinene | CAS-No: 80-56-8 | EC No: 201-291-9 |
| Classification (EC 1272/2008): M factor (Acute) = 1 M factor (Chronic) = 1 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 | | |
| < 1% beta- Pinene | CAS-No: 127-91-3 | EC No: 204-872-5 |
| Classification (EC 1272/2008): M factor (Acute) = 1 M factor (Chronic) = 1 Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410 | | |

04. FIRST AID MEASURES

| 4.1 Description of first aid measures | |
|--|---|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues. |
| Ingestion | Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention. |
| Skin Contact | Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. |
| Eye Contact | Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. |
| 4.2 Most important symptoms and effects, both acute and delayed | |
| Inhalation | May be fatal if swallowed and enters airways. |
| Skin contact | May cause an allergic skin reaction. |
| 4.3 Indication of any immediate medical attention and special treatment needed | |
| Notes for the doctor: Treat symptomatically. | |

05. FIRE-FIGHTING MEASURES

| 5.1 Extinguishing Media | |
|---|--|
| Extinguishing media: Carbon dioxide (CO ₂). Dry Chemical Powder. Foam. Water Spray. | |

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|--|
| 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

Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.

For emergency responders: Wear an appropriate NIOSH / MSHA approved respirator if mist or vapour is generated.

6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up.

Absorb with liquid binding material (e.g. sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Usage precautions

Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Provide adequate ventilation. Keep away from heat, sparks and open flame.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

d-Limonene (CAS: 5989-27-5)

DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³

General population - Oral; Long term systemic effects: 4.76 mg/kg

PNEC - STP; 1.8 mg/l

- Soil; 0.262 mg/kg

- Fresh water; 0.0054 mg/l

- Marine water; 0.00054 mg/l

- Sediment (Fresh water); 1.32 mg/kg

- Sediment (Marine water); 0.13 mg/kg

1, 8 cineole (CAS: 470-82-6)

DNEL Workers - Inhalation; Long term systemic effects: 7.05 mg/m³

Workers - Dermal; Long term systemic effects: 2 mg/kg
 General population - Oral; Long term systemic effects: 600 mg/kg
 General population - Dermal; Long term systemic effects: 1 mg/kg
 General population - Inhalation; Long term systemic effects: 1.74 mg/m³

PNEC - Fresh water; Short term 5.7 mg/l
 - Intermittent release, Fresh water; 0.57 mg/l
 - Marine water; Short term 5.7 mg/l
 - STP; Short term 10 mg/l
 - Sediment (Freshwater); Short term 1.425 mg/kg
 - Sediment (Marine water); Short term 0.142 mg/kg
 - Soil; Short term 0.25 mg/kg

p-menth-1-en-8-ol (CAS: 98-55-5)

PNEC - Fresh water; Short term 68 mg/l
 - Marine water; Short term 6.8 mg/l
 - STP; Short term 2.6 mg/l
 - Sediment (Freshwater); Short term 1.85 mg/kg
 - Sediment (Marine water); Short term 0.185 mg/kg
 - Soil; Short term 0.329 mg/kg

Alpha Pinene (CAS: 80-56-8)

DNEL Workers - Inhalation; Long term systemic effects: 3.8 mg/m³
 Workers - Dermal; Long term systemic effects: 0.54 mg/kg, bw/day
 General population - Inhalation; Long term systemic effects: 0.67 mg/m³
 General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day
 General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day
 PNEC - Fresh water; Short term 0.606 mg/l
 - Fresh water, Intermittent release; 3.03 mg/l
 - Marine water; Short term 0.061 mg/l
 - Intermittent release, Marine water; 0.303 mg/l
 - STP; Short term 0.2 mg/l
 - Sediment (Freshwater); Short term 157 mg/kg
 - Sediment (Marine water); Short term 15.7 mg/kg
 - Soil; Short term 31.7 mg/kg

Alpha- Terpinolene (CAS: 586-62-9)

DNEL Workers - Inhalation; Long term systemic effects: 3.6 mg/m³
 Workers - Dermal; Long term systemic effects: 0.52 bw/day, mg/kg
 General population - Inhalation; Long term systemic effects: 0.9 mg/m³
 General population - Dermal; Long term systemic effects: 0.26 bw/day, mg/kg
 General population - Oral; Long term systemic effects: 0.26 bw/day, mg/kg
 PNEC - Fresh water; Short term 0.634 mg/l
 - Intermittent release, Fresh water; Short term 0.634 mg/l
 - Marine water; Short term 0.063 mg/l
 - STP; Short term 0.2 mg/l
 - Sediment (Freshwater); Short term 14.7 mg/kg
 - Sediment (Marine water); Short term 14.7 mg/kg
 - Soil; Short term 29.1 mg/kg

Beta Pinene (CAS: 127-91-3)

DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³
 Workers - Dermal; Long term systemic effects: 0.8 mg/kg, bw/day
 General population - Inhalation; Long term systemic effects: 1 mg/m³
 General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg
 General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day
 PNEC - Fresh water; Short term 1.004 mg/l

- Intermittent release, Fresh water; 5.02 mg/l
- Marine water; Short term 0.1 mg/l
- STP; Short term 3.26 mg/l
- Sediment (Freshwater); Short term 0.337 mg/kg
- Sediment (Marine water); Short term 0.034 mg/kg
- Soil; Short term 0.067 mg/kg

8.2 Exposure controls

Protective Equipment



| | |
|---------------------------------|---|
| Process Conditions | Provide eyewash station. |
| Engineering Measures | Provide adequate ventilation. |
| Respiratory Equipment | Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material. |
| Hand Protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. |
| Eye Protection | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. |
| Other Protection | Wear appropriate clothing to prevent any possibility of skin contact. |
| Hygiene Measures | Good personal hygiene practices are always advisable, especially when working with chemicals / oils. |
| Personal Protection | Use personal protection according to Directive 89/686/EEC. |
| Skin Protection | Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact. |
| Environmental Exposure Controls | Avoid discharging into drainage water. Only eliminate by authorised companies. |

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--------------------------------|----------------------------------|
| Appearance | Liquid, colourless to yellow. |
| Colour | Colourless to yellow. |
| Odour | Characteristic – balsamic spicy. |
| Relative Density | Approx. 0.900 @ 20°C |
| Flash Point (°C) | 54.0 |
| Refractive Index | Approx. 1.480 @ 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 | No additional data available. |
| Auto-ignition temperature (°C) | No additional data available. |

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

| |
|---|
| 10.1 Reactivity |
| The substance is stable under normal storage and handling conditions. |
| 10.2 Chemical stability |
| Stable at normal ambient temperature. |
| 10.3 Possible hazardous reactions |
| None known. |
| 10.4 Conditions to Avoid |
| Avoid heat, flames and other sources of ignition. |
| 10.5 Incompatible materials |
| Avoid strong oxidising agents and strong reducing agents. |
| 10.6 Hazardous Decomposition Products |
| Carbon dioxide (CO ₂). Carbon monoxide (CO). |

11. TOXOLOGICAL INFORMATION

| | |
|--|--|
| 11.1 Information on toxicological effects | |
| Acute Toxicity | Not classified. |
| Skin corrosion / irritation | Causes skin irritation. |
| Serious eye damage / irritation | Not classified. |
| Respiratory or skin sensitisation | Skin - May be fatal if swallowed and enters airways. |
| 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 |
| Very 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 |
| Do not allow product to enter streams, sewers or other waterways. |

13. DISPOSAL CONSIDERATIONS

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|-------------------------------------|
| 13.1 Waste treatment methods |
|-------------------------------------|

Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.

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/ADN Class: | 3 Flammable liquid |
| IMDG Class | 3 |
| ICAO Class/Division | 3 |
| Transport Labels | |
|  | |
| 14.4 Packing group | |
| ADR/RID/ADN Packing group | III |
| IMDG Packing group | III |
| ICAO Packing group | III |
| 14.5 Environmental hazards | |
| Environmentally Hazardous Substance/Marine Pollutant | |
|  | |
| 14.6 Special precautions for user | |
| EmS | F-E, S-D |
| ADR transport category | 3 |
| Emergency Action Code | 3Y |
| Hazard Identification Number(ADR/RID) | 30 |
| Tunnel restriction code | (D/E) |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code | |
| No additional data available. | |

15. REGULATORY INFORMATION

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|---|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |
| <p><u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).</p> <p><u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p><u>EU Legislation</u> Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006</p> |

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 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. H410 Very toxic to aquatic life with long lasting effects. |
| Other Information | None. |
| Revision Date | 29/05/2018 |
| Reason for revision | 02 updated SDS 01 New SDS |
| Rev No/Repl, SDS Generated | 02, replaces 01 |

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