



## Safety Data Sheet

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

#### 1.1 Product Identifier

|                        |   |        |           |            |           |
|------------------------|---|--------|-----------|------------|-----------|
| Product Name           | Fir Needle Oil (Sibirica).  |        |           |            |           |
| Biological Definition  | Abies Sibirica Oil is the volatile oil distilled from the needles and branches of <i>Abies sibirica</i> , <i>Pinaceae</i> . |        |           |            |           |
| INCI Name              | Abies Sibirica Oil.   |        |           |            |           |
| Synonyms & Trade Names | -   |        |           |            |           |
| CAS-No                 | 91697-89-1  | EC No. | 294-351-9 | EINECS No. | 294-351-9 |

#### 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

Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1

#### 1.4 Emergency Tel. No.

604-540-8700 (Monday-Friday 8:30 am-4:30 pm)

### 02. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

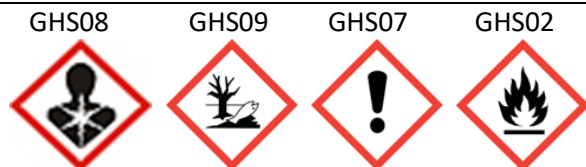
The Full Text for all Hazard Statements is displayed in Section 16.

Classification (EC 1272/2008)

Flam. Liq. 3 (H226)  
Asp. Tox. 1 (H304)  
Eye Irrit. 2 (H319)  
Skin Sens. 1 (H317)  
Aqu. Chron. 1 (H410)

#### 2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word

Danger.

Contains

Delta-3-Carene, alpha-Pinene, beta-Pinene, Limonene, Camphene.

Hazard Statements

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                          |
| H304 | May be fatal if swallowed and enters airways.         |
| H319 | Causes serious eye irritation.                        |
| H317 | May cause an allergic skin reaction.                  |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements

|   |  |
|---|--|
| P210  | Keep away from heat/sparks/open flames/hot surfaces. No smoking.   |
| P305+P351+ P338                               | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P280  | Wear protective gloves/protective clothing and eye/face protection.  |
| P301+P330+P331                                | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.   |
| P310  | Immediately call a POISON CENTER or doctor/physician.  |
| P273  | Avoid release to the environment.  |
| P501  | Dispose of contents/container to regional, national regulation.  |
| <b>Supplementary Precautionary Statements</b> |  |
| None.   |  |
| <b>2.3 Other Hazards</b>                      |  |
| 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

|   |  |
|---|--|
| <b>3.2 Mixtures</b>   |  |
| <b>18-30% Limonene</b> CAS-No.: 5989-27-5 EC No.: 227-813-5   |  |
| Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Irrit 2 – H315 Asp Tox. 1 – H304, Skin Sens. 1 – H317<br>Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410 |  |
| <b>15-25% Camphene</b> CAS-No 79-92-5, EC 201-234-8   |  |
| Classification (EC 1272/2008); Flam. Sol. 1 – H228, Eye Irrit 2 – H319, Aquatic Acute 1 – H400  |  |
| <b>15-25% alpha-Pinene</b> CAS-No.: 80-56-8 EC No.: 201-291-9   |  |
| Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304  |  |
| <b>2-6% beta-Pinene</b> Cas. No: 127-91-3 EC No: 204-872-5  |  |
| Classification (EC 1272/2008); Danger, Flam. Liq. 3 – H226, Skin Sens. 1 – H317 , Asp Tox. 1 – H304, Aquatic Chronic 1 – H410                                     |  |
| <b>1-5% delta-3-Carene</b> CAS-No.: 13466-78-9 EC No.: 236-719-3  |  |
| Classification (EC 1272/2008) Danger Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Sens. 1, H317   |  |

### 04. FIRST AID MEASURES

|  |  |
|--|--|
| <b>4.1 Description of first aid measures</b> |  |
| Inhalation                                   | Do not leave affected person unattended, Remove victim out of the danger area.<br>Provide fresh air.   |
| Ingestion                                    | If swallowed rinse mouth. Do NOT induce vomiting.  |
| Skin Contact                                 | After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately.                                     |
| Eye Contact                                  | In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. |

|   |
|---|
| <b>4.2 Most important symptoms and effects, both acute and delayed</b>                |
| Observe risk of aspiration if vomiting occurs.  |
| <b>4.3 Indication of any immediate medical attention and special treatment needed</b> |
| Treat symptomatically.  |

## 05. FIRE-FIGHTING MEASURES

|  |
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| <b>5.1 Extinguishing Media</b>   |
| Foam.<br>Extinguishing powder.<br>Carbon dioxide (CO <sub>2</sub> ).<br>Avoid full water jet.  |
| <b>5.2 Special hazards arising from the product</b>  |
| B (Fires of liquids or liquid turning substances).<br>In case of fire toxic fumes like carbon monoxide and carbon dioxide may be liberated.<br>Burning produces heavy smoke. |
| <b>5.3 Advice for firefighters</b>   |
| Move undamaged containers from immediate hazard area if it can be done safely.<br>Use suitable breathing apparatus.<br>Regard to self protection.                            |

## 06. ACCIDENTAL RELEASE MEASURES

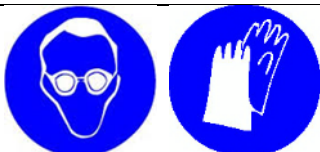
|  |
|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b>   |
| Wear personal protection equipment.<br>Avoid contact with skin, eye and clothing.<br>Remove all sources of ignition.<br>Provide adequate ventilation.<br>Give a warning to persons in the hazard area. |
| <b>6.2 Environmental Precautions</b>   |
| Do not allow to enter into surface water or drains.<br>Cover drains.<br>Prevent spread over a wide area (e.g. by containment or oil barriers).   |
| <b>6.3 Methods and material for containment and cleaning up.</b>   |
| Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).   |
| <b>6.4 Reference to other sections</b>   |
| See protective measures under point 7 and 8.   |

## 07. HANDLING AND STORAGE

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| <b>7.1 Precautions for safe handling</b>   |
| Provide earthing of containers, equipment, pumps and ventilation facilities.<br>Take precautionary measures against static discharges.<br>Wear personal protective clothing (see chapter 8).<br>Do not breathe gas/fume/vapour/spray.<br>Use only in well-ventilated areas.<br>When using do not eat, drink, smoke, sniff. |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b>  |
| Keep container tightly closed.   |

|                                |
|--------------------------------|
| <b>7.3 Specific end use(s)</b> |
| No additional data available.  |

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

|   |   |
|---|---|
| <b>8.1 Control parameters</b>   |   |
| No additional data available.   |   |
| <b>8.2 Exposure controls</b>  |   |
| Protective Equipment  |   |
|  |   |
| Process Conditions  | Technical measures and the application of suitable work processes have priority over personal protection equipment.   |
| Engineering Measures  | No additional data available.   |
| Respiratory Equipment   | If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.   |
| Hand Protection   | Use solvent and acid resistant protection gloves according to EN 374.<br>The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.<br>Take recovery periods for skin regeneration. |
| Eye Protection  | Use protection goggles according to EN166.  |
| 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   | Protective work clothing solvent resistant (should be checked regularly).   |
| Environmental Exposure Controls   | Avoid discharging into drainage water. Only remove via authorised companies.  |

## 09. PHYSICAL AND CHEMICAL PROPERTIES

|  |                                |
|--|--------------------------------|
| <b>9.1 Information on basic physical and chemical properties</b> |                                |
| Appearance   | Liquid.                        |
| Colour   | Colourless to slightly yellow. |
| Odour  | Characteristic.                |
| Relative Density   | Approx. 0.886 @ 20°C           |
| Flash Point (°C)   | 42°C                           |
| Refractive Index   | Approx. 1.470 @ 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 dangerous reactions known.   |
| <b>10.2 Chemical stability</b>  |
| Product is stable at room temperature.  |
| <b>10.3 Possible hazardous reactions</b>  |
| No dangerous reactions expected if used according to specifications.  |
| <b>10.4 Conditions to Avoid</b>   |
| Temperatures more than room temperature will benefit the transfer from liquid to vapour phase and formation of explosive atmospheres.<br>Storing the product in open containers will benefit the formation of peroxides and derogate the quality. |
| <b>10.5 Incompatible materials</b>  |
| No additional data available.   |
| <b>10.6 Hazardous Decomposition Products</b>  |
| No dangerous decomposition products known.  |

## 11. TOXOLOGICAL INFORMATION

|  |  |
|--|--|
| <b>11.1 Information on toxicological effects</b> |  |
| Acute Toxicity                                   | Acute toxicity<br>LD50 (oral) in mg/kg: > 5000<br>LD50 (dermal) in mg/kg: > 5000 |
| 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.  |
| Aspiration hazard                                | No additional data available.  |
| Photo-toxicity                                   | No additional data available.  |
| Other Information                                | No additional data available.  |

## 12. ECOLOGICAL INFORMATION

|  |
|--|
| <b>12.1 Toxicity</b>                           |
| No additional data available.                  |
| <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.                  |

**12.6 Other adverse effects**

No additional data available.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Hazardous waste according to waste regulation.  
 Dispose according to legislation.  
 Delivery to an approved waste disposal company.  
 Non-contaminated packages may be recycled.

**14. TRANSPORT INFORMATION****14.1 UN number**

|             |      |
|-------------|------|
| UN No. Road | 1272 |
| UN No. SEA  | 1272 |
| UN No. AIR  | 1272 |

**14.2 UN proper shipping name**

PINE OIL

**14.3 Transport hazard class(es)**

ADR/RID/ADN Class: 3  
 ADR/RID/ADN Class: 3  
 IMDG Class 3  
 ICAO Class/Division

Transport Labels



EAC – 3Y  
 HIN – 30

**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**

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 and/or Precautionary Statements in Full | H226<br>H228<br>H304<br>H315<br>H317<br>H319<br>H410<br>H411 | Flammable liquid and vapour.<br>Flammable solid.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>Very toxic to aquatic life with long lasting effects.<br>Toxic to aquatic life with long lasting effects. |
| Other Information                              | None.  |   |
| Revision Date                                  | 17   |   |
| Reason for revision                            | Updated SDS.   |   |
| Rev No/Repl, SDS Generated                     | 02, replaces 01.   |   |

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