Safety Data Sheet

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

1.1 Product Identifier

Product Name		Birch Oil Sweet.			
Biological Definition		Betula Lenta Bark Oil is the volatile oil obtained from the bark of the Sweet Birch, *Betula lenta L., Betulaceae.*			
INCI Name		Betula Lenta Bark Oil.			
Synonyms & Trade Names		-			
CAS-No	85251-66-7	EC No.	286-478-3	EINECS No.	286-478-3

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 are Displayed in Section 16.

Human health
Acute Tox 4 – H302

Classification (EC 1272/2008)

H302 Harmful if swallowed.

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS07

Signal Word	Warning.
Contains	Methyl salicylate, cineols.

Hazard Statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if resent and easy to do. Continue rinsing.
P330 Rinse mouth.
P501 Dispose of contents/container to an approved waste disposal plant.

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

98.0% Methyl salicylate CAS-No.: 119-36-8 EC No.: 204-317-7

Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, STOT SE3 - H335.

0.5% Cineol CAS-No.: 470-67-7 EC No.: 207-428-9

Classification (EC 1272/2008) Flam. Liq. 3 - H226

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

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

Use CO2, Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

5.2 Special hazards arising from the product

Wear protective clothing. Avoid inhalation of vapours.

5.3 Advice for firefighters

Thermal decomposition can lead to release of irritating gases and vapours. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

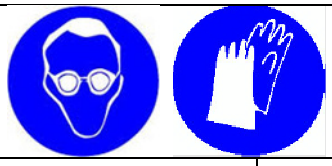
Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.

6.2	Environmental Precautions
	Do not discharge directly into drains or soil. Keep away from surface and ground water.
6.3	**Methods and material for containment and cleaning up.**
	Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.
6.4	**Reference to other sections**
	Wear protective clothing as described in Section 8 of this safety data sheet.

07. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
7.2	**Conditions for safe storage, including any incompatibilities**
	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. 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
	This product does not contain any hazardous materials with occupational exposure limits.
8.2	**Exposure controls**
Protective Equipment	
	
Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	As required. Avoid breathing product vapour.
Hand Protection	Avoid all skin contact. Use chemically resistant gloves if required.
Eye Protection	Wear approved safety goggles.
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 apron or protective clothing in case of splashes.
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, pale yellow to amber yellow.
Colour	Pale yellow to amber yellow.
Odour	Flowery, slightly woody.
Relative Density	1.168 to 1.179 @ 20^{o}C

Flash Point (°C)	96°C
Refractive Index	1.533-1.537 @ 20°C
Melting Point (°C)	Melting-point of methyl salicylate component (98% of formulation) - 8.7°C.
Boiling Point (°C)	222 to 224 @ 760 mm Hg.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

It presents no significant reactivity hazards, by itself or in contact with water.

10.2 Chemical stability

Stable under the recommended handling and storage conditions.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to Avoid

Incompatible products. Excess heat.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis and oxidising agents.

10.6 Hazardous Decomposition Products

Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Methyl salicylate acute oral toxicity orl-rat: 0.7 to 2.8 g/kg. A number of cases of human poisoning via the oral route with mortality > 50%: Opdyke FCT 16, 821, (1978). The mechanism of the high acute human toxicity of methyl salicylate is believed to involve the decoupling of oxidative phosphorylation. Acute toxicity oral UN-GHS Hazard Category 4.
Skin corrosion / irritation	Methyl salicylate found non-irritating to humans at 8% in a 48 hr closed patch test Opdyke FCT 16, 821, (1978). However undiluted sweet birch oil found to be an irritant to rats, mice and pigs (Opdyke 1979). Methyl salicylate has a unique ability to penetrate the skin by dermal absorption; systemic toxicity possible from applying to broken skin Heng et al. Cutis 39(5), 442-444 (1978). Maximum use levels of methyl salicylate in EU products 3-9% (Norway 1%), or 0.4% when used in conjunction with ethanol. Skin corrosion/irritation Methyl salicylate UN-GHS: Hazard Category 2
Serious eye damage / irritation	Serious eye-damage/irritation Methyl salicylate: UN-GHS: Hazard Category 2A.
Respiratory or skin sensitisation	Non-sensitising to humans at 8% Opdyke FCT 16, 821, (1978). However systemic toxicity possible from applying to broken skin Heng et al. Cutis 39(5), 442-444 (1978).

Germ Cell Mutagenicity	Not believed to be mutagenic.
Carcinogenicity	Not carcinogenic.
Reproductive toxicity	No additional data available.
STOT-single exposure	Methyl salicylate STOT single exposure UN-GHS: Hazard Category 3.
STOT-repeated exposure	No additional data available.
Aspiration hazard	Methyl salicylate: May cause respiratory irritation.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Methyl salicylate ecotoxicity UN-GHS: Hazardous to the aquatic environment - Acute Category 3.
Methyl salicylate EC50 Daphnia magna 50mg/l.

12.2 Persistence & degradability

Degradability: No data available.

12.3 Bioaccumulation Potential

Bioaccumulative potential: No data available on bioaccumulation.

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

13.1 Waste treatment methods

Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	Not regulated.
UN No. SEA	Not regulated.
UN No. AIR	Not regulated.

14.2 UN proper shipping name

-

14.3 Transport hazard class(es)

ADR/RID/ADN : Not regulated.
ADR/RID/ADN : Not regulated.
IMDG : Not regulated.
ICAO : Not regulated.

14.4 Packing group

ADR/RID/ADN : Not regulated.
IMDG Packing group : Not regulated.

ICAO Packing group : Not regulated.

14.5 Environmental hazards

None.

14.6 Special precautions for user

None.

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

-

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	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Other Information	None.
Revision Date	August 25, 2015
Reason for revision	New SDS.
Rev No/Repl, SDS Generated	01

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.