



Safety Data Sheet

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

1.1 Product Identifier					
Product Name		Basil Methyl Chavicol Oil.			
Biological Definition		Ocimum Basilicum Oil is the volatile oil obtained from the leaves of the Basil, <i>Ocimum basilicum L., Labiatae</i> .			
INCI Name		Ocimum Basilicum Oil.			
Synonyms & Trade Names		Basil Oil Tropical / Basil Oil MC.			
CAS-No	84775-71-3 / 8015-73-4	EC No.	283-900-8 / -	EINECS No.	283-900-8 / -
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 displayed in Section 16.	
Classification (EC 1272/2008)	
Acute toxicity - Oral Category 4 - (H302). Skin corrosion/irritation Category 2 - (H315). Serious eye damage/eye irritation Category 2 - (H319). Skin sensitization Category 1 - (H317). Germ cell mutagenicity Category 2 - (H341). Carcinogenicity Category 2 - (H351). Chronic aquatic toxicity Category 3 - (H412).	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS08 	GHS07 
Signal Word	Warning.
Contains	Contains ESTRAGOLE.
Hazard Statements	
H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H341 - Suspected of causing genetic defects.	

H351 - Suspected of causing cancer. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary Statements	
<p>P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P308 + P313 - IF exposed or concerned: Get medical advice/attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice/attention. P273 - Avoid release to the environment.</p>	
Supplementary Precautionary Statements	
None.	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	Harmful to aquatic life Combustible liquid.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures	
70.0 – 80.0% Estragole CAS-No.: 140-67-0 EC No.: 205-427-8	
Classification (EC 1272/2008) Skin Sens. 1 (H317), Carc. 2 (H351), Muta. 2 (H341), Skin Irrit. 3 (316), Acute Tox. 4 (H302), Flam. Liq. 4 (H227), Skin Sens. 1 (H317) Carc. 2 (H351), Muta. 2 (H341), Skin Irrit. 3 (H316), Acute Tox. 4 (H302).	
1.0 – 30.0% Linalool CAS-No 78-70-6, EC 201-134-4	
Classification (EC 1272/2008); Aquatic Acute 3 (H402,) Eye Irrit. 1 (H319,) Skin Irrit. 2 (H315), Acute Tox. 5 (H303), Aquatic Acute 3 (H402), Eye Irrit. 1 (H319), Skin Irrit. 2 (H315), Acute Tox. 5 (H303), Flam. Liq. 4 (H227).	

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting without medical advice. Clean mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Skin Contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Consult a physician if necessary.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
4.2 Most important symptoms and effects, both acute and delayed	
Symptoms: None known.	
4.3 Indication of any immediate medical attention and special treatment needed	
Note to physicians: Treat symptomatically.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Suitable Extinguishing Media: Use CO2, dry chemical, or foam.
Unsuitable extinguishing media: No information available.
5.2 Special hazards arising from the product
Thermal decomposition can lead to release of irritating and toxic gases and vapours Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.
5.3 Advice for firefighters
Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

06. ACCIDENTAL RELEASE MEASURES

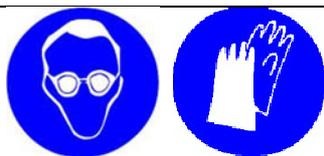
6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: Ensure adequate ventilation, especially in confined areas.
For emergency responders : Use personal protection recommended in Section 8.
6.2 Environmental Precautions
Collect spillage.
6.3 Methods and material for containment and cleaning up.
<u>Methods for Containment:</u> Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). <u>Methods for cleaning up:</u> Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal.
6.4 Reference to other sections
See Section 12: ECOLOGICAL INFORMATION.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
Advice on safe handling: Ensure adequate ventilation, especially in confined areas.
General hygiene considerations: Wash contaminated clothing before reuse.
7.2 Conditions for safe storage, including any incompatibilities
Storage Conditions: Keep container tightly closed in a dry and well-ventilated place.
7.3 Specific end use(s)
Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Derived No Effect Level (DNEL): No information available. Predicted No Effect Concentration (PNEC): No information available.
8.2 Exposure controls
Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Respiratory Equipment	No information available.
Hand Protection	Suitable gloves tested to EN374 (should be checked regularly) - always use with clean, dry hands.
Eye Protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Other Protection	Suitable protective clothing.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	No information available.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	No information available.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Mobile liquid.
Colour	Light yellow to yellow brown.
Odour	Characteristic.
Relative Density	0.900 - 0.973 @ 20°C
Flash Point (°C)	80°C
Refractive Index	1.490 to 1.530 @ 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.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional information available.

10.2 Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge : None

10.3 Possible hazardous reactions

Possibility of Hazardous Reactions: None under normal processing.

10.4 Conditions to Avoid

Avoid extremes of temperature and direct sunlight.

10.5 Incompatible materials
No additional information available.
10.6 Hazardous Decomposition Products
None under normal use conditions.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects																	
Acute Toxicity	<p>Product does not present an acute toxicity hazard based on known or supplied information.</p> <p>Inhalation: No data available. Eye Contact: No data available. Skin contact: No data available. Ingestion: No data available.</p> <p>The following values are calculated based on chapter 3.1 of the GHS document.</p> <p>ATEmix (oral) - 1,474.00. ATEmix (dermal) - 5,462.00. Unknown acute toxicity. 6.5% of the mixture consists of ingredient(s) of unknown toxicity.</p> <table border="0"> <thead> <tr> <th>Chemical Name</th> <th>Oral LD50</th> <th>Dermal LD50</th> <th>Inhalation LC50</th> </tr> </thead> <tbody> <tr> <td>BASIL OIL METHYL CHAVICOL</td> <td>= 1400 mg/kg (Rat)</td> <td>> 5 g/kg (Rabbit)</td> <td>-</td> </tr> <tr> <td>ESTRAGOLE</td> <td>= 1230 mg/kg (Rat)</td> <td>> 5 g/kg (Rabbit)</td> <td>-</td> </tr> <tr> <td>LINALOOL</td> <td>= 2790 mg/kg (Rat)</td> <td>= 5610 mg/kg (Rat)</td> <td>-</td> </tr> </tbody> </table>	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	BASIL OIL METHYL CHAVICOL	= 1400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-	ESTRAGOLE	= 1230 mg/kg (Rat)	> 5 g/kg (Rabbit)	-	LINALOOL	= 2790 mg/kg (Rat)	= 5610 mg/kg (Rat)	-
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50														
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LINALOOL	= 2790 mg/kg (Rat)	= 5610 mg/kg (Rat)	-														
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

12.1 Toxicity			
82 % of the mixture consists of components(s) of unknown hazards to the aquatic environment			
Chemical Name	Algae/aquatic plants	Fish	Crustacea
LINALOOL	88.3: 96 h Desmodesmus subspicatus mg/L EC50	22 - 46: 96 h Leuciscus idus mg/L LC50 static	20: 48 h Daphnia magna mg/L EC50
12.2 Persistence & degradability			
No additional data available.			
12.3 Bioaccumulation Potential			
Chemical Name	LINALOOL		

Partition coefficient	2.84 - 3.1.
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
<p>Waste from Residues / Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations.</p> <p>Contaminated packaging: Improper disposal or reuse of this container may be dangerous and illegal.</p>

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	
n/a	
14.3 Transport hazard class(es)	
Not Regulated.	
14.4 Packing group	
Not Regulated.	
14.5 Environmental hazards	
Not applicable.	
14.6 Special precautions for user	
None.	
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
<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 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</p>

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	H317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer if inhaled. H341 - Suspected of causing genetic defects if inhaled. H302 - Harmful if swallowed. H227 - Combustible liquid. H316 - Causes mild skin irritation. H402 - Harmful to aquatic life. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H303 - May be harmful if swallowed.
Other Information	None.
Revision Date	February 3, 2016
Reason for revision	New format and updated SDS.
Rev No/Repl, SDS Generated	02

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.