



Safety Data Sheet

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

1.1 Product Identifier

Product Name		Melissa Oil Natural.			
Biological Definition		Melissa Officinalis Leaf Oil is a volatile oil obtained from the leaves and tops of the <i>Balmmintoil</i> , <i>Melissa officinalis L.</i> , <i>Labiatae</i> .			
INCI Name		Melissa Officinalis Leaf oil			
Synonyms & Trade Names		-			
CAS-No	84082-61-1 / 8014-71-9	EC No.	282-007-0	EINECS No.	282-007-0

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.

Classification (EC 1272/2008)

Skin irritation, Category 2 (Skin Irrit. 2, H315).
 Serious eye damage, Category 1 (Eye Dam. 1, H318).
 Skin sensitisation, Category 1 (Skin Sens. 1, H317).
 Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).
 This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word

Danger

Contains

EC 203-376-6 CITRONELLAL
 EC 203-377-1 GERANIOL
 EC 203-375-0 CITRONELLOL
 605-019-00-3 CITRAL
 EC 225-004-1 FARNESOL
 EC 201-291-9 ALPHA-PINENE X

601-029-00-7 (R)-P-MENTHA-1,8-DIENE	
Hazard Statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Supplementary Precautionary Statements	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.
Adverse physio-chemical properties	The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table
Adverse effects on human health	No additional data available

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
25.0-50.0% CITRONELLAL CAS: 106-23-0, EC: 203-376-6 Classification (EC 1272/2008) Warning Eye Irrit. 2, H319, Aquatic Chronic 2, H411, Skin Irrit. 2, H315, Skin Sens. 1, H317
10.0 – 25.0% GERANIOL CAS: 106-24-1, EC: 203-377-1 Classification (EC 1272/2008) Danger Eye Dam. 1, H318, Skin Irrit. 2, H315, Skin Sens. 1, H317
10.0 – 25.0% CITRONELLOL CAS: 106-22-9 EC: 203-375-0 Classification (EC 1272/2008) Warning, Eye Irrit. 2, H319, Skin Irrit. 2, H315, Skin Sens. 1, H317
2.50 - 10.0% CITRAL CAS: 5392-40-5 EC: 226-394-6 Classification (EC 1272/2008) Warning, Skin Irrit. 2, H315, Skin Sens. 1, H317
2.50 - 10.0% CITRONELLYL ACETATE CAS: 150-84-5, EC: 205-775-0 Classification (EC 1272/2008) Warning, Eye Irrit. 2, H319, Aquatic Chronic 2, H411, Skin Irrit. 2, H315
0.00 – 2.50% FARNESOL CAS: 4602-84-0, EC: 225-004-1 Classification (EC 1272/2008) Warning, Eye Irrit. 2, H319, Skin Irrit. 2, H315, Skin Sens. 1, H317

<p>0.00 – 2.50% GERANYL ACETATE CAS: 105-87-3, EC: 203-341-5</p> <p>Classification (EC 1272/2008) Aquatic Chronic 2, H411</p>
<p>0.00 – 2.50% ISOPULEGOL CAS: 89-79-2, EC: 201-940-6</p> <p>Classification (EC 1272/2008) Warning , Acute Tox. 4, H302</p>
<p>0.00 – 2.50% LINALOOL CAS: 78-70-6, EC: 201-134-4</p> <p>Classification (EC 1272/2008) Warning , Eye Irrit. 2, H319, Skin Irrit. 2, H315.</p>
<p>0.00 - 2.50% MENTHONE CAS: 10458-14-7, EC: 233-944-9</p> <p>Classification (EC 1272/2008) Aquatic Chronic 3, H412</p>
<p>0.00 - 2.50% ALPHA-PINENE X CAS: 80-56-8, EC: 201-291-9</p> <p>Classification (EC 1272/2008) Danger, Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317</p>
<p>0.00 - 2.50% (R)-P-MENTHA-1,8-DIENE CAS: 5989-27-5, EC: 227-813-5</p> <p>Classification (EC 1272/2008) Warning, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1</p>

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.
Ingestion	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.
Skin Contact	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
Eye Contact	Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.
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
Non flammable.
5.2 Special hazards arising from the product
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to

health.
Do not breathe in smoke.
In the event of a fire, the following may be formed:
- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3 Advice for firefighters

No additional data available.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2 Environmental Precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.

6.3 Methods and material for containment and cleaning up.

Clean preferably with a detergent, do not use solvents.

6.4 Reference to other sections

No additional data available.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Requirements relating to storage premises apply to all facilities where the mixture is handled.
Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.
Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2 Conditions for safe storage, including any incompatibilities


Packaging

Always keep in packaging made of an identical material to the original.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
Occupational exposure limits : - ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :	
CAS	TWA:
80-56-8	20ppm
STEL:	Ceiling:
-	-
Definition:	Criteria:
-	-
8.2 Exposure controls	
Protective Equipment	
	
Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	For high concentrations use respiratory equipment.
Hand Protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties : - Impervious gloves in accordance with standard EN374
Eye Protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes Before handling, wear safety goggles with protective side's in accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly.
Other Protection	Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.
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09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Clear liquid
Colour	Mobile oily liquid bright yellow
Odour	Characteristic Citral, fresh and intense
Relative Density	Approx. 0.886 @ 20°C
Flash Point (°C)	73°C
Refractive Index	Approx. 1.467 @ 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 data available.	
10.2 Chemical stability	
This mixture is stable under the recommended handling and storage conditions in section 7.	
10.3 Possible hazardous reactions	
No additional data available.	
10.4 Conditions to Avoid	
No additional data available.	
10.5 Incompatible materials	
No additional data available.	
10.6 Hazardous Decomposition Products	
The thermal decomposition may release/form: - carbon monoxide (CO) - carbon dioxide (CO ₂)	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects		
Acute Toxicity	ALPHA-PINENE X (CAS: 80-56-8) MENTHONE (CAS: 10458-14-7) LINALOOL (CAS: 78-70-6) ISOPULEGOL (CAS: 89-79-2) CITRONELLOL (CAS: 106-22-9) GERANIOL (CAS: 106-24-1) CITRONELLAL (CAS: 106-23-0)	Oral route : LD50 = 3700 mg/kg Oral route : LD50 = 2500 mg/kg Oral route : LD50 = 3000 mg/kg Oral route : LD50 = 960 mg/kg Oral route : LD50 = 2650 mg/kg Dermal route : LD50 = 2650 mg/kg Oral route : LD50 = 4200 mg/kg Oral route : LD50 = 2500 mg/kg
Skin corrosion / irritation	May cause an allergic reaction by skin contact	

Serious eye damage / irritation	May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days. Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.
Respiratory or skin sensitisation	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
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
Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways. No aquatic toxicity data available for the mixture.
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
Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC. Do not pour into drains or waterways. Waste: Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste. Do not dispose of waste into the environment. Soiled packaging: Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

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. (Citronellal)

14.3 Transport hazard class(es)

ADR/RID/ADN Class 9
 IMDG Class 9
 ICAO Class/Division 9

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

ADR/RID

Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
9	M6	III	9	90	5 L	274 335 601	E1	3	E

IMDG

Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
9	-	III	5 L	F-A,S-F	274 335	E1

IATA

Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
9	-	III	964	450 L	964	450 L	A97, A158,	E1
9	-	III	Y964	30 kg G	-	-	A97 A158,	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.
 For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

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 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. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Other Information	None
Revision Date	October 26, 2016
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

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