



Safety Data Sheet

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

1.1 Product Identifier					
Product Name		Rosemary Oil Tunisian			
Biological Definition		Rosmarinus Officinalis Leaf Oil is the essential oil obtained from the flowering tops and leaves of the Rosemary, <i>Rosmarinus officinalis L.</i> , <i>Lamiaceae</i>			
INCI Name		Rosmarinus Officinalis Leaf Oil			
Synonyms & Trade Names		-			
CAS-No	84604-14-8 / 8000-25-7	EC No.	283-291-9	EINECS No.	283-291-9
1.2 Relative identified uses of the substance or mixture and uses advised against					
Uses: Perfumery, cosmetics, food.					
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)									
Flammable liquid, Category 3 (Flam. Liq. 3, H226). Skin irritation, Category 2 (Skin Irrit. 2, H315). Skin sensitisation, Category 1B (Skin Sens. 1B, H317). Aspiration hazard, Category 1 (Asp. Tox. 1, H304). Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400). Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).									
2.2 Label Elements									
Label in accordance with (EC) No 1272/2008									
<table style="width: 100%; text-align: center;"> <tr> <td>GHS08</td> <td>GHS09</td> <td>GHS07</td> <td>GHS02</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>		GHS08	GHS09	GHS07	GHS02				
GHS08	GHS09	GHS07	GHS02						
Signal Word	Danger.								
Contains	<table style="width: 100%;"> <tr> <td>EC 207-431-5 EUCALYPTOL</td> <td>EC 201-291-9 ALPHA-PINENE</td> </tr> <tr> <td>EC 204-872-5 B-PINENE</td> <td>EC 227-815-6 L-LIMONENE</td> </tr> <tr> <td>EC 202-794-6 G-TERPINENE</td> <td>EC 209-578-0 TERPINOLENE</td> </tr> </table>	EC 207-431-5 EUCALYPTOL	EC 201-291-9 ALPHA-PINENE	EC 204-872-5 B-PINENE	EC 227-815-6 L-LIMONENE	EC 202-794-6 G-TERPINENE	EC 209-578-0 TERPINOLENE		
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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>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... P302 + P352 IF ON SKIN: Wash with plenty of water/... P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P403 + P235 Store in a well-ventilated place. Keep cool.</p>	
Supplementary Precautionary Statements	
No additional data available.	
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	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures	
25 - 50% Eucalyptol	CAS: 470-82-6, EC: 207-431-5
Classification (EC 1272/2008)	GHS02, GHS07, Wng Flam. Liq. 3, H226, Skin Sens. 1B, H317
10 - 20% Alpha Pinene	CAS: 80-56-8, EC 201-291-9
Classification (EC 1272/2008)	GHS08, GHS02, GHS07, GHS09, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1B, H317, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1
2.5 - 10% Camphor	CAS: 76-22-2, EC: 200-945-0
Classification (EC 1272/2008)	GHS08, GHS02, GHS07, Wng Acute Tox. 4, H332, Acute Tox. 4, H302, Flam. Sol. 2, H228, STOT SE 2, H371
2.5 - 10% β Pinene	CAS: 127-91-3, EC: 204-872-5
Classification (EC 1272/2008)	GHS08, GHS02, GHS07, GHS09, Dgr Flam. Liq. 3, H226, Asp. Tox. 1, H304, Skin Irrit. 2, H315, Skin Sens. 1B, H317, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1

2.5 - 10% Camphene CAS: 79-92-5, EC: 201-234-8
Classification (EC 1272/2008) GHS02, GHS07, GHS09, Wng Eye Irrit. 2, H319, Flam. Sol. 2, H228, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1
2.5 - 10% Beta-Caryophyllene CAS: 87-44-5, EC: 201-746-1
Classification (EC 1272/2008) GHS08, Danger, Asp. Tox. 1, H304
2.5 - 10% Limonene CAS: 5989-54-8, EC: 227-816-5
Classification (EC 1272/2008) GHS08, GHS02, GHS07, GHS09, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1B, H317, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1
< 2.5% Alpha-Terpineol CAS: 98-55-5, EC: 202-680-6
Classification (EC 1272/2008) GHS07, Wng Eye Irrit. 2, H319, Skin Irrit. 2, H315
< 2.5% G-Terpinene CAS: 99-85-4, EC: 202-794-6
Classification (EC 1272/2008) GHS08, GHS02, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226
< 2.5% Myrcene CAS: 123-35-3, EC: 204-622-5
Classification (EC 1272/2008) GHS08, GHS02, GHS07, Dgr Asp. Tox. 1, H304, Eye Irrit. 2, H319, Flam. Liq. 3, H226, Skin Irrit. 2, H315
< 2.5% Para-Cymene CAS: 99-87-6, EC: 202-796-7
Classification (EC 1272/2008) GHS08, GHS02, GHS09, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226, Aquatic Chronic 2, H411
< 2.5% Terpinolene CAS: 586-62-9, EC: 209-578-0
Classification (EC 1272/2008) GHS08, GHS07, GHS09, Dgr Asp. Tox. 1, H304, Skin Sens. 1B, H317, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1

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	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.
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	
Flammable. Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires. Keep packages near the fire cool, to prevent pressurised containers from bursting. Prevent the effluent of fire-fighting measures from entering drains or waterways.	
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) and carbon dioxide (CO ₂)	
5.3 Advice for firefighters	
Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.	

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
Consult the safety measures listed under headings 7 and 8. <u>For non first aid worker</u> Avoid any contact with the skin and eyes. <u>For first aid worker</u> 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. If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures Use drums to dispose of collected waste in compliance with current regulations (see section 13).	
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	
Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance.	

Always wash hands after handling.
 Remove and wash contaminated clothing before re-using.
 Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention:

Handle in well-ventilated areas.
 Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.
 Never inhale this substance.
 Prevent the accumulation of electrostatic charges with connections to earth.
 Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
 Keep packages tightly closed and away from sources of heat, sparks and naked flames.
 Do not use tools which may produce sparks. Do not smoke.
 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.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the substance is used.
 Never open the packages under pressure.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep the container tightly closed in a dry, well-ventilated place.
 Keep away from food and drink, including those for animals.
 Keep away from all sources of ignition - do not smoke.
 Keep well away from all sources of ignition, heat and direct sunlight.
 Avoid accumulation of electrostatic charges.

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

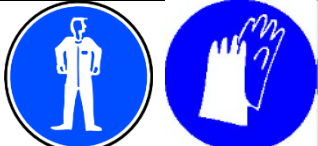
8.1 Control parameters

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2ppm	3 ppm	-	A4	-
80-56-8	20ppm			SEN; A4	
127-91-3	20ppm			SEN; A4	

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
76-22-2	2	12	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :					
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2 ppm 13 mg/m ³	3 ppm 19 mg/m ³	-	-	-
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	<p>Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.</p> <p>Gloves must be selected according to the application and duration of use at the workstation.</p> <p>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.</p> <p>Recommended properties :</p> <ul style="list-style-type: none"> - Impervious gloves in accordance with standard EN374 				
Eye Protection	<p>Avoid contact with eyes.</p> <p>Use eye protectors designed to protect against liquid splashes</p> <p>Before handling, wear safety goggles in accordance with standard EN166.</p>				
Other Protection	<p>Use personal protective equipment that is clean and has been properly maintained.</p> <p>Store personal protective equipment in a clean place, away from the work area.</p>				
Hygiene Measures	<p>Good personal hygiene practices are always advisable, especially when working with chemicals / oils.</p>				
Personal Protection	<p>Use personal protective equipment that is clean and has been properly maintained.</p> <p>Store personal protective equipment in a clean place, away from the work area.</p> <p>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.</p>				
Skin Protection	<p>Avoid skin contact.</p> <p>Wear suitable protective clothing.</p> <p>Suitable type of protective clothing :</p> <p>In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.</p> <p>In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.</p> <p>Work clothing worn by personnel shall be laundered regularly.</p> <p>After contact with the product, all parts of the body that have been soiled must be washed.</p>				
Environmental Exposure Controls	<p>Avoid discharging into drainage water. Only eliminate by authorised companies.</p>				

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Fluid liquid

Colour	Colourless to Pale yellow
Odour	Characteristic, cineol, more or less camphor
Relative Density	Approx. 0.910 @ 20°C
Flash Point (°C)	43°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 substance 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	
Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises. Avoid: - accumulation of electrostatic charges. - heating - heat - flames and hot surfaces	
10.5 Incompatible materials	
Keep away from: - water	
10.6 Hazardous Decomposition Products	
The thermal decomposition may release/form: carbon monoxide (CO) and carbon dioxide (CO ₂)	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	No toxicological data available for the substances.
Skin corrosion / irritation	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. May cause an allergic reaction by skin contact. May cause damage to organs.
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	Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.
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. The product must not be allowed to run into drains or waterways.
12.2 Persistence & degradability
no degradability data is available, the substance is considered as not degrading quickly.
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
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	1169
UN No. SEA	1169
UN No. AIR	1169
14.2 UN proper shipping name	

UN1169=EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3
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

ADR/RID

Class	Code	Pack Gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
3	F1	III	3	30	5L	601 640 E	E1	3	D/E

IMDG

Class	2° Label	Pack Gr.	LQ	EMS	Provis.	EQ
3	-	III	5L	F-E, S-D	223 955	E1

IATA

Class	2° Label	Pack Gr.	Passager	Passager	Cargo	Cargo	Note	EQ
3	-	III	355	60L	366	220L	A3	E1
3	-	III	Y344	10L	-	-	A3	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. H228 Flammable solid. 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. H332 Harmful if inhaled. H371 May cause damage to organs . 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.
Other Information	None.
Revision Date	March 8, 2017
Reason for revision	Updated SDS
Rev No/Repl, SDS Generated	02, replaces 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.