



Safety Data Sheet

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

1.1 Product Identifier

Product Name	Oregano Oil				
Biological Definition	Origanum Vulgare Oil is the volatile oil obtained from the whole plant of the Wild Marjoram, <i>Origanum vulgare L., Labiatae</i> .				
INCI Name	Origanum Vulgare Oil				
Synonyms & Trade Names	-				
CAS-No	84012-24-8	EC No.	281-670-3	EINECS No.	281-670-3

1.2 Relative identified uses of the substance or mixture and uses advised against

Industry Use.

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)

Physical and Chemical: Hazards Not classified.
Human health:
Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Asp. Tox. 1: Aspiration hazard, Category 1, H304
Eye Irrit. 2: Eye irritation, Category 2, H319
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317
Environment:
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS07



GHS08



GHS09



Signal Word

Danger.

Contains

p-Cymene, gamma-Terpinene, beta-Carophyllene

Hazard Statements

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.
 H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331 - Do NOT induce vomiting.
 P501 - Dispose of contents in accordance with local, state or national legislation.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P333+P311 - If skin irritation or rash occurs: Get medical advice/attention.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 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.
 P391 - Collect spillage.

Supplementary Precautionary Statements

P264 - Wash hands and exposed skin thoroughly after handling.
 P330 - Rinse mouth.
 P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

60.0 – 80.0% Carvacrol CAS No: 499-75-2 EC No: 207-889-6

Classification (EC 1272/2008) Acute Tox. 4: H302; Skin Irrit. 2: H315; Skin Sens. 1B: H317; Eye Irrit. 2: H319

10.0 – 20.0% p-Cymene CAS No: 99-87-6 EC No: 202-796-7

Classification (EC 1272/2008) Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE3: H335; Aquatic Chronic 2: H411

1.0 – 4.0% gamma-Terpinene CAS No: 99-85-4 EC No: 202-794-6

Classification (EC 1272/2008) Flam. Liq. 3: H226; Asp. Tox. 1: H304

1.0 – 4.0% beta-Carophyllene CAS No: 87-44-5 EC No: 201-746-1

Classification (EC 1272/2008) Asp. Tox. 1: H304

≤ 3.0 % Linalool CAS: 78-70-6 EC No: 201-134-4

Classification (EC 1272/2008) Skin Irrit. 2: H315; Eye Irrit. 2: H319

1.0 -4.0% alpha-Pinene CAS No: 80-56-8 EC No: 201-291-9
Classification (EC 1272/2008) Flam. Liq. 3; H226, Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens. 1B: H317
1.0 – 4.0% Myrcene CAS No:123-35-3 EC No: 204-622-5
Classification (EC 1272/2008) Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Irrit. 2: H319
<1.0 % alpha- Terpinene CAS: 99-86-5 EC No: 202-795-1
Classification (EC 1272/2008) Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 2: H411
< 1.0% Limonene CAS No: 5989-27-5 EC No: 227-813-5
Classification (EC 1272/2008) Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens. 1; Skin Sens. 1B: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410
<1.0% beta-Pinene CAS No: 127-91-3 EC No: 204-872-5
Classification (EC 1272/2008) Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Skin Sens.1B: H317, Aquatic Acute 1: H400; Aquatic Chronic 1: H410
< 1.0% Citral CAS: 5392-40-5 EC No: 226-394-6
Classification (EC 1272/2008) Skin Irrit. 2: H315; Skin Sens. 1: H317
<1.0% Thymol CAS No: 89-83-8 EC No: 201-944-8
Classification (EC 1272/2008) Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 2: H411

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention if symptoms persist.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.
4.2 Most important symptoms and effects, both acute and delayed	
Acute and delayed effects are indicated in sections 2 and 11.	
4.3 Indication of any immediate medical attention and special treatment needed	
Not applicable.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Product is non-flammable under normal conditions of storage and use. In case of fire use Carbon dioxide (CO ₂) Dry chemical powder as Extinguishing media.

5.2 Special hazards arising from the product
As a result of combustion or thermal decomposition, irritating vapours/gases may be formed that can present a serious health risk.
5.3 Advice for firefighters
Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit) in accordance with Directive 89/654/EC. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

06. ACCIDENTAL RELEASE MEASURES

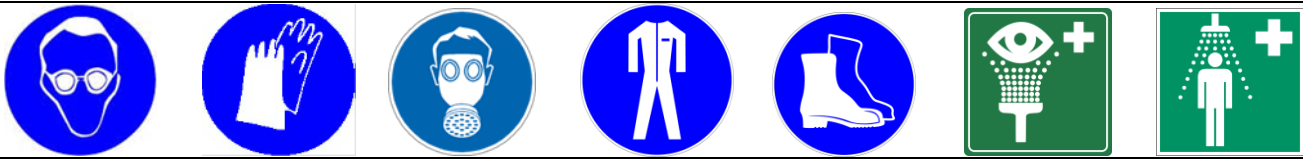
6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling
6.2 Environmental Precautions
Do not discharge into drains, water courses or onto the ground. Keep away from surface and ground water.
6.3 Methods and material for containment and cleaning up.
Absorb with inert, non-combustible, inorganic absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite). Sweep up and remove to an approved disposal container. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.
6.4 Reference to other sections
See section 8 & 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling				
<p><u>Precautions for safe handling:</u> Comply with the current legislation concerning the prevention of industrial risks. Keep containers sealed. Control spills and residues (see section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.</p> <p><u>Technical recommendations for the prevention of fires and explosions:</u> Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition.</p> <p><u>Technical recommendations to prevent ergonomic and toxicological risks:</u> Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.</p> <p><u>Technical recommendations to prevent environmental risks:</u> Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.</p>				
7.2 Conditions for safe storage, including any incompatibilities				
<table> <tr> <td>Temperature for storage:</td> <td>Max temp. 25°C</td> </tr> <tr> <td>General conditions for storage:</td> <td>Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5</td> </tr> </table>	Temperature for storage:	Max temp. 25°C	General conditions for storage:	Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5
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General conditions for storage:	Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5			
7.3 Specific end use(s)				
Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.				

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
No additional data available.

8.2 Exposure controls	
Protective Equipment	
	
Process Conditions	Provide eyewash station. Provide safety shower.
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Respiratory Equipment	Wear a filter mask for gases and vapours to standard EN 405:2001+A1:2009. Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
Hand Protection	Wear chemical resistant gloves (PVC). Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.
Eye Protection	Avoid contact with the eyes. Wear approved safety goggles with side protection to standard EN 166:2001 EN ISO 4007:2012. Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
Other Protection	Wear overalls and non slip shoes to prevent skin contact and avoid slip hazards in the work place.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.
Personal Protection	Avoid inhalation and contact with skin and eyes.
Skin Protection	Wear protective clothing in case of splashes. Ensure emergency shower is available in case of contact with skin. Ensure eyewash station is provided.
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	Clear liquid, amber to brown.
Colour	Amber to brown.
Odour	Characteristic.
Relative Density	0.930 - 0.960 @ 20°C
Flash Point (°C)	71
Refractive Index	1.502 - 1.516 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	220
Vapour Pressure	38Pa @20°C, 249Pa @20°C
Solubility in Water @20°C	No additional data available.
Auto-ignition temperature (°C)	225
9.2 Other information	
No additional data available.	

10. STABILITY AND REACTIVITY

10.1 Reactivity
Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.

10.2 Chemical stability
Stable under normal temperature conditions and recommended use.
10.3 Possible hazardous reactions
None under normal use and conditions.
10.4 Conditions to Avoid
Avoid extremes of temperature and direct sunlight. Shock and Friction – n/a Contact with air – n/a Increase in temperature – Precaution. Sunlight – Precaution. Humidity – n/a
10.5 Incompatible materials
Acids – n/a Water – n/a Combustive materials – Avoid direct impact. Combustible materials – n/a Others – Avoid alkalis and strong bases.
10.6 Hazardous Decomposition Products
In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Harmful if swallowed.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Skin: May cause an allergic skin reaction.
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	May be fatal if swallowed and enters airways.
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
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

Not applicable.

12.6 Other adverse effects

No additional data available.

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. Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION**14.1 UN number**

UN No. Road	UN3082.
UN No. SEA	UN3082.
UN No. AIR	UN3082.

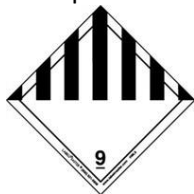
14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR/RID/ADN Class: 9 Miscellaneous dangerous goods.
 IMDG Class: 9 Miscellaneous dangerous goods.
 ICAO Class/Division: 9 Miscellaneous dangerous goods.

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**

Special regulations ADR & RID: 274, 335, 375, 601
 Special regulations IMDG: 274, 909
 EmS Codes: F-A, S-F
 Tunnel restriction code: E
 Physico-Chemical properties: See section 9.
 Limited quantities: 5L

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

Not applicable.

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. H314 - Causes severe skin burns and eye damage H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory 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.
Other Information	None.
Revision Date	June 29, 2017
Reason for revision	Update SDS
Rev No/Repl, SDS Generated	03, replaces 02

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