




## Safety Data Sheet

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

<b>1.1 Product Identifier</b>					
Product Name		Clementine Oil			
Biological Definition		Essential oil extracted by cold expression from the outer part of fresh clementine peel <i>Citrus clementina</i> , <i>Rutaceae</i>			
INCI Name		Citrus Clementina Peel Oil			
Synonyms & Trade Names		-			
CAS-No	-	EC No.	-	EINECS No.	-
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
No additional data available.					
<b>1.3 Details of the supplier of the safety data sheet</b>					
Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1					
<b>1.4 Emergency Tel. No.</b>		604-540-8700 (Monday-Friday 8:30 am-4:30 pm)			

### 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
The Full Text for all Hazard Statements displayed in Section 16.	
Classification (EC 1272/2008)	
UN-GHS: FL 3, AH 1, SCI 2, SS 1, EH A1,C1 EU-CLP: FL 3, AH 1, SCI 2, SS 1, EH A1,C1	
<b>2.2 Label Elements</b>	
Label in accordance with (EC) No 1272/2008	
GHS02    GHS07    GHS08    GHS09	
	
Signal Word	Danger.
Contains	Limonene, myrcene, gamma-terpinene, pinenes.
Hazard Statements	
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.	
Precautionary Statements	
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P241 Use explosion-proof electrical/ventilating/light/.../equipment. P262 Do not get in eyes, on skin or on clothing. P273 Avoid release to the environment.	

<p>P280 Wear protective gloves/protective clothing/eye protection/face protection.  P301/310 IF SWALLOWED immediately call a POISON CENTRE or doctor/physician.  P303/361/353 IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  P331 Do NOT induce vomiting.</p>	
Supplementary Precautionary Statements	
<p>P405 Store locked up  P501 Dispose of product/container in accordance with local regulations.</p>	
<b>2.3 Other Hazards</b>	
PBT or vPvB according to Annex XIII	No.
Adverse physio-chemical properties	Combustible but should not self-ignite.
Adverse effects on human health	Skin contact may cause irritation/sensitisation.

### 03. COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.2 Mixtures</b>	
<p>≤ <b>94.0% Limonene</b> CAS-No: 5989-27-5; EC No.: 227-813-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</p>	
<p>≤ <b>2.0% Myrcene</b> CAS No: 123-35-3 ; EC No: 204-622-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 3 - H412</p>	
<p>≤ <b>2.0% Gamma Terpinene</b> CAS No: 99-85-4 ; EC No: 202-794-6</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp Tox. 1 –H304</p>	
<p>≤ <b>2.0% Pinenes</b> CAS No: 80-56-8 ; EC No: 201-291-9</p> <p>Classification (EC 1272/2008) Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Sens.1, H317; Aquatic Acute 1, Aquatic Chronic 1, H410</p>	

### 04. FIRST AID MEASURES

<b>4.1 Description of first aid measures</b>	
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.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
No additional data available.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
No additional data available.	

## 05. FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>
Suitable extinguishing media: CO <sub>2</sub> , Dry powder, Foam. Spray to base of flames. Unsuitable extinguishing media: Direct water jet.
<b>5.2 Special hazards arising from the product</b>
None known.
<b>5.3 Advice for firefighters</b>
Wear protective clothing. Avoid inhalation of vapours. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

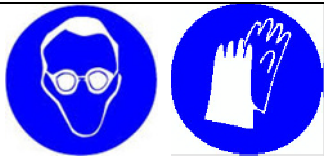
## 06. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>
Wear protective clothing as described in Section 8 of this safety data sheet. Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.
<b>6.2 Environmental Precautions</b>
Do not discharge into drains, water courses or onto the ground.
<b>6.3 Methods and material for containment and cleaning up.</b>
Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container.
<b>6.4 Reference to other sections</b>
No additional data available.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>
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.
<b>7.3 Specific end use(s)</b>
No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control parameters</b>	
No additional data available.	
<b>8.2 Exposure controls</b>	
Protective Equipment	
	
Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation Avoid static discharges in working area.
Respiratory Equipment	As required. Avoid inhalation of vapours.
Hand Protection	Avoid all skin contact. Wear chemical resistant gloves (PVC).

Eye Protection	Avoid contact with eyes. Wear approved safety goggles.
Other Protection	No additional data available.
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 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, yellow orange to orange red.
Colour	Yellow orange to orange red.
Odour	Characteristic – Citrus, clementine.
Relative Density	0.841 – 0.853 @ 20°C
Flash Point (°C)	45
Refractive Index	1.469 to 1.478 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	Initial: 176°C ± 10°C @ 1026 hPa (lit.)
Vapour Pressure	186.4 Pa @ 25°C (lit.)
Solubility in Water @20°C	Negligible.
Auto-ignition temperature (°C)	235 (lit.)

### 9.2 Other information

No additional data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3 Possible hazardous reactions

No additional data available.

### 10.4 Conditions to Avoid

Heat, sparks and open flames. Avoid storage temperatures of above 25°C.

### 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	Acute oral toxicity LD50 (orl-rat): 5g/kg (RIFM data).
Skin corrosion / irritation	Causes skin irritation (H315).
Serious eye damage / irritation	Not classified as irritating to the eye (RIFM data).

Respiratory or skin sensitisation	May cause an allergic skin reaction (H317).
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 (H304).
Photo-toxicity	No additional data available.
Other Information	No additional data available.

## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>
Marine pollutant.
<b>12.2 Persistence &amp; degradability</b>
Expected to be 100% biodegradable.
<b>12.3 Bioaccumulation Potential</b>
Classed as H410 – very toxic with long-lasting effects.
<b>12.4 Mobility in soil</b>
No additional data available.
<b>12.5 Results of PBT and vPvB Assessment</b>
Not classified as PBT or vPvB.
<b>12.6 Other adverse effects</b>
Do not discharge into the environment especially not into waterways, sewers and the sea.

## 13. DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>
Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

## 14. TRANSPORT INFORMATION

<b>14.1 UN number</b>	
UN No. Road	UN 1169
UN No. SEA	UN 1169
UN No. AIR	UN 1169
<b>14.2 UN proper shipping name</b>	
Extracts, Aromatic, Liquid.	
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN Class: 3 Flammable Liquid. ADR Hazard No: 30	
IMDG Class: 3 Flammable Liquid.	
ICAO Class/Division: 3 Flammable Liquid.	
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

HazChem Code: •3YE  
EMS: F-E, S-D

#### 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. 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.
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011.
Revision Date	May 6, 2016
Reason for revision	Update to new format

Rev No/Repl, SDS Generated	02
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