

# **Safety Data Sheet**

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

1.1 Product Identifier					
Product Name		Lime Oil Expressed Conventional			
Biological Definition		Essential oil expressed from the epicarps of the Lime, Citrus			
		aurantifolia, Rutaceae			
INCI Name		Citrus Aurantifolia Peel Oil Expressed			
Synonyms & Trade Names		-			
CAS-No	90063-52-8 / 8008-26-2	EC No.	290-010-3	EINECS No.	290-010-3

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

For manufacturing purposes only.

## 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 is Displayed in Section 16.

#### Human health

May cause allergic skin reaction and fatal if swallowed.

#### **Environment**

The product contains a substance which may cause long term adverse effects in the aquatic environment.

#### Physical and Chemical Hazards

This product is flammable

#### Classification (EC 1272/2008)

Physical and Chemical Hazards: Flam. Liq. 3 - H226

Human health: Skin Irrit. 2 - H315; Skin Sens. 1 - H317; Asp. Tox. 1 - H304

Environment: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

#### 2.2 Label Elements

#### Label in accordance with (EC) No 1272/2008









Signal Word Danger

Contains	E	Bisabolene, Citral, g-Terpinene, Limonene, pinenes.
Hazard State	ements	
H226	Flammable liquid and vapour.	
H304	May be fatal if swallowed and ent	ers airways.
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction	n.
H410	Very toxic to aquatic life with long lasting effects	
Precautiona	ry Statements	
P273	Avoid release to the environment	•
P280	Wear protective gloves/protective	e clothing/eye protection/face protection.
P301+	310 IF SWALLOWED: Immediately c	all a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.	
P391	Collect spillage	

- Collect spillage. P391
- P501 Dispose of contents/container to ...

#### **Supplementary Precautionary Statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- Use only non-sparking tools. P242
- P243 Take precautionary measures against static discharge.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P261 Avoid breathing vapour/spray.
- P264 Wash contaminated skin thoroughly after handling.
- Specific treatment (see medical advice on this label). P321
- P370+378 In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P332+313 If skin irritation occurs: Get medical advice/attention.
- P333+313 If skin irritation or rash occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P403+235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

#### 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

**30-60% Limonene** CAS-No.: 5989-27-5 EC No.: 227-813-5

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

**5.0 - 20%** g-Terpinene CAS-No.: 99-85-4 EC No.: 202-794-6

Classification (EC 1272/2008) Flam. Lig. 3 - H226 Asp. Tox. 1 - H304

**10-30% pinenes** CAS-No.: 80-56-8 EC No.: 201-291-9

Classification (EC 1272/2008) Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

3-10% Citral CAS-No.: 5392-40-5 EC No.: 226-394-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

1-5% Bisabolene CAS-No.: 495-62-5 EC No.: 207-805-8

Classification (EC 1272/2008) Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

1-5% Myrcene (7-methyl-3-methyleneocta-1,6-diene) CAS-No.: 123-35-3 EC No.: 204-622-5

Classification (EC 1272/2008) Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Asp. Tox. 1 - H304

< 1% Beta Caryophyllene CAS-No.: 87-44-5 EC No.: 201-746-1

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

< 1% Geraniol CAS-No.: 106-24-1 EC No.: 203-377-1

Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

< 1% Geranyl Acetate CAS-No.: 105-87-3 EC No.: 203-341-5

Classification (EC 1272/2008) Aquatic Chronic 2 - H411

< 1% Linalool CAS-No.: 78-70-6 EC No.: 201-134-4

Classification (EC 1272/2008) Acute Tox. 5 - H303 Skin Irrit. 2 - H315 Aquatic Acute 3 - H402

< 1% Terpineol CAS-No.: 8000-41-7 EC No.: 232-268-1

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

#### 04. FIRST AID MEASURES

4.1	4.1 Description of first aid measures		
Inhalation Remove immediately from source of exposure. Seek medical attention if any continues.		Remove immediately from source of exposure. Seek medical attention if any discomfort continues.	
Ingestion DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Drink plent water (200-300ml). Seek medical attention.		DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Drink plenty of water (200-300ml). Seek medical attention.	
Skin	Contact	Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention if any discomfort continues.	
Eye Contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses open eyes wide apart. Seek medical attention immediately. Continue to rinse.		Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Seek medical attention immediately. Continue to rinse.	
4.2	4.2 Most important symptoms and effects, both acute and delayed		
	Inhalation: May be fatal if swallowed and enters airways.		
	Skin contact: May cause irritation and stinging		
4.3	.3 Indication of any immediate medical attention and special treatment needed		
	No additional data available		

#### **05. FIRE-FIGHTING MEASURES**

#### 5.1 Extinguishing Media

Extinguishing media: Carbon dioxide (CO2). Dry Chemical Powder. Foam.

#### 5.2 Special hazards arising from the product

May produce toxic fumes of organic compounds and carbon monoxide.

## 5.3 Advice for firefighters

Protective equipment for fire-fighters; wear full protective clothing.

#### **06. ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours and contact with skin and eyes.

#### 6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground.

## 6.3 Methods and material for containment and cleaning up.

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder.

#### 6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

#### 07. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Keep away from heat, sparks and open flame.

## 7.2 Conditions for safe storage, including any incompatibilities

Ground/bond container and receiving equipment. Use only non sparking tools. Take precautionary measures against static discharge.

### 7.3 Specific end use(s)

No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Linalool (CAS: 78-70-6) Ingredient Comments: No exposure limits noted for ingredient(s).

## 8.2 Exposure controls

**Protective Equipment** 







Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or

	other conditions which increase exposure, the following engineering controls can be
	used to minimise exposure to personnel:
	a) Increase ventilation of the area with local exhaust ventilation.
	b) Personnel can use an approved, appropriately fitted respirator with organic vapour
	cartridge or canisters and particulate filters.
	c) Use closed systems for transferring and processing this material.
Hand Protection	Chemical resistant gloves (PVC)
Eye Protection	Wear approved safety goggles.
Other Protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or
	prolonged vapour contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with
	chemicals / oils.
Personal Protection	Avoid inhalation and contact with skin and eyes.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure	Avoid discharging into drainage water. Only eliminate by authorised companies.
Controls	

## 09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance	Liquid	
Colour	Dark yellow to light brown to greenish	
Odour	Characteristic	
Relative Density	0.845 – 0.870 @ 20°C	
Flash Point (°C)	34	
Refractive Index	1.470 - 1.485 @ 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	No additional data available	
Auto-ignition	No additional data available.	
temperature (°C)		
9.2 Other information		
No additional data available.		

## **10. STABILITY AND REACTIVITY**

## 10.1 Reactivity

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

## 10.2 Chemical stability

Stable under the recommended handling and storage conditions.

## 10.3 Possible hazardous reactions

This material does not undergo any dangerous reactions under normal conditions.

## 10.4 Conditions to Avoid

Avoid heat, flames and other sources of ignition.

## 10.5 Incompatible materials

Avoid strong acids, alkalis and other oxidising agents

## 10.6 Hazardous Decomposition Products

Not expected

## 11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects		
Acute Toxicity	Acute Toxicity (Oral LD50) > 5000	
Skin corrosion / irritation	Causes skin irritation. May cause an allergic skin reaction.	
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

The product is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

#### 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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

## 12.6 Other adverse effects

Do not allow product to enter streams, sewers or other waterways.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Collect and dispose of waste product at an authorised disposal facility. Product remainders should not intrude soil or waters.

## **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	

## EXTRACTS, AROMATIC, LIQUID

## 14.3 Transport hazard class(es)

ADR/RID/ADN Class: Class 3 - Flammable liquids

IMDG Class: 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

EMS: F-E-S-D Emergency Action Code 3Y

Hazard No. (ADR) 30 Flammable liquid (flash-point between 23°C and 60°C, inclusive) or

flammable liquid or solid in the molten state with a flash-point above 60°C, heated to a temperature equal to or above its flash-point, or self heating

liquid.

Tunnel Restriction Code (D/E)

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

Tariff Number 33012941

#### 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).

## **Approved Code of Practise**

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

#### **Guidance Notes**

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	H318 Causes serious eye damage.	
Statements in Full	H319 Causes serious eye irritation.	
	H315 Causes skin irritation.	
	H226 Flammable liquid and vapour.	
	H402 Harmful to aquatic life.	
	H304 May be fatal if swallowed and enters airways.	
	H303 May be harmful if swallowed.	
	H317 May cause an allergic skin reaction.	
	H411 Toxic to aquatic life with long lasting effects.	
	H410 Very toxic to aquatic life with long lasting effects.	
	H400 Very toxic to aquatic life.	
Other Information	None	
Revision Date	April 11, 2016	
Reason for revision	New SDS	
Rev No/Repl, SDS Generated	01	

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