




## Safety Data Sheet

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

<b>1.1 Product Identifier</b>					
Product Name		Orange Oil 5 Fold			
Biological Definition		Obtained by mechanical expression of the ripe peels of the fruit of <i>Citrus sinensis</i> (L), (syn: Citrus aurantium dulcis), Rutaceae followed by fractional distillation to selectively remove the monoterpene fraction in part.			
INCI Name		Citrus Aurantium Dulcis Peel Oil Expressed			
Synonyms & Trade Names		-			
CAS-No	8028-48-6	EC No.	232-433-8	EINECS No.	232-433-8
<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 Hazard Statements is Displayed in Section 16.	
<u>Human health</u>	Aspiration hazard, skin corrosion / irritation and skin sensitisation
<u>Environment</u>	The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
<u>Physical and Chemical Hazards</u>	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
<b>2.2 Label Elements</b>	
Label in accordance with (EC) No 1272/2008	
 GHS07	
Signal Word	Danger
Contains	Limonene
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

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P262	Do not get in eyes, on skin, or on clothing.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P391	Collect spillage.

#### 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.
P242	Use only non-sparking tools.
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.
P321	Specific treatment (see medical advice on this label).
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.
P362	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.
P501	Dispose of contents/container to ...

### 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 known effects

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

**60-100% Limonene** CAS-No.: 5989-27-5 EC No.: 227-813-5

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Irrit 2 – H315 Asp Tox. 1 – H304, Skin Sens. 1 – H317 Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410

**1-5% 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% Decanal** CAS-No.: 112-31-2, EC 203-957-4

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Aquatic Chronic 3 - H412

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

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

#### 04. FIRST AID MEASURES

##### 4.1 Description of first aid measures

Inhalation	Provide fresh air immediately. Seek medical attention if discomfort occurs.
Ingestion	Rinse mouth with plenty of water and provide fresh air. Seek medical attention immediately.
Skin Contact	Remove contaminated clothing. 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 and open eyes wide apart. Seek 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

Extinguishing media: Carbon dioxide (CO<sub>2</sub>). Dry Chemical Powder. Chemical Foam.  
Unsuitable extinguishing media: Do not use direct water jet on burning material

##### 5.2 Special hazards arising from the product

In case of fire; Carbon Dioxide and unidentified organic compounds may be produced.

##### 5.3 Advice for firefighters

Avoid inhalation of vapours. Self contained breathing apparatus and full protective clothing must be worn in case of fire. Containers may be cooled to avoid pressure increase.

#### 06. ACCIDENTAL RELEASE MEASURES

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

Remove sources of ignition. Provide adequate ventilation. 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. Dispose of in line with Local authority guidelines.

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

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with current laws and regulations.

##### 6.4 Reference to other sections


Wear protective clothing as described in section 8.

#### 07. HANDLING AND STORAGE

##### 7.1 Precautions for safe handling

Use in accordance with good industrial / laboratory procedures. Keep containers leak proof closed and dry. Protect against sun/light, heat and open flame. Prevent spills and leakages to avoid slip hazard. Avoid inhalation of vapours and contact with skin and eyes.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>
Intrusion into soil to be avoided. Store the product in cool (max. room temperature) and well-ventilated environment and keep away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations.
<b>7.3 Specific end use(s)</b>
No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control parameters</b>	
Linalool	Cas No: 78-70-6 No exposure limits noted for ingredients.
<b>8.2 Exposure controls</b>	
Protective Equipment	
	
Process Conditions	No special measures required
Engineering Measures	Provide adequate ventilation
Respiratory Equipment	No special measures required providing good ventilation is maintained.
Hand Protection	Wear protective (chemical resistant) gloves.
Eye Protection	Wear approved safety glasses.
Other Protection	Use solvent resistant overalls
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 protective clothing in case of splashing
Environmental Exposure Controls	Avoid discharging into drainage water.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Clear, yellow to reddish orange liquid
Colour	Yellow to red-orange
Odour	Characteristic
Relative Density	0.850 - 0.870 @ 20°C
Flash Point (°C)	53
Refractive Index	1.470 - 1.480 @ 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 temperature (°C)	No additional data available.
<b>9.2 Other information</b>	
No additional data available.	

## **10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>
No additional data available
<b>10.2 Chemical stability</b>
No additional data available.
<b>10.3 Possible hazardous reactions</b>
No additional data available.
<b>10.4 Conditions to Avoid</b>
Avoid extreme temperatures
<b>10.5 Incompatible materials</b>
Avoid highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.
<b>10.6 Hazardous Decomposition Products</b>
No additional data available

## **11. TOXOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	No additional data available
Skin corrosion / irritation	No additional data available
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**

<b>12.1 Toxicity</b>
No additional data available
<b>12.2 Persistence &amp; degradability</b>
No additional data available
<b>12.3 Bioaccumulation Potential</b>
No additional data available
<b>12.4 Mobility in soil</b>
No additional data available
<b>12.5 Results of PBT and vPvB Assessment</b>
No additional data available
<b>12.6 Other adverse effects</b>
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	2319	Rail Transport Notes	Avoid releasing to the environment.
		Road Transport Notes	Avoid releasing to the environment.
UN No. SEA	2319	Sea Transport Notes	Do not release into the environment.
UN No. AIR	2319		

#### 14.2 UN proper shipping name

TERPENE HYDROCARBONS, N.O.S

#### 14.3 Transport hazard class(es)

ADR/RID/AND 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

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 33011210

### 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). Workplace Exposure Limits EH40

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

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H319 Causes serious eye irritation. H315 Causes skin irritation. H226 Flammable liquid and vapour. H412 Harmful to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.
Other Information	None
Revision Date	July 29, 2015
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

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