







## Safety Data Sheet

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

<b>1.1 Product Identifier</b>					
Product Name		Grapefruit Oil Red			
Biological Definition		Citrus Paradisi Peel Oil is the volatile oil expressed from the peel of the Grapefruit, <i>Citrus paradisi</i> , Rutaceae.			
INCI Name		Citrus Paradisi Peel Oil			
Synonyms & Trade Names		-			
CAS-No	8016-20-4	EC No.	N/A	EINECS No.	N/A
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
Relevant uses: Perfumery, cosmetics, food					
<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)	
Flammable Liquid, Hazard Category 3 - H226 Skin Corrosion / Irritation Category 2 - H315 Sensitization - Skin Category 1 - H317 Aspiration Hazard Category 1 - H304 Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400). Hazardous to the Aquatic Environment – Aquatic Chronic Category 1 - H410	
<b>2.2 Label Elements</b>	
Label in accordance with (EC) No 1272/2008	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>GHS02</p>  </div> <div style="text-align: center;"> <p>GHS07</p>  </div> <div style="text-align: center;"> <p>GHS08</p>  </div> <div style="text-align: center;"> <p>GHS09</p>  </div> </div>	
Signal Word	Danger.
Contains	601-029-00-7 (R)-P-MENTHA-1,8-DIENE EC 204-622-5 MYRCENE
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 and hot surfaces. - No smoking. P273, Avoid release to the environment. P280, Wear protective gloves/eye protection/face protection. P301/310, IF SWALLOWED: Immediately call a POISON CENTER 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.	
Supplementary Precautionary Statements	
P391 collect spillage.	
<b>2.3 Other Hazards</b>	
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

<b>3.2 Mixtures</b>	
<b>≤ 95.0% Limonene</b>	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, Aquatic Acute 1 - H400, M Acute = 1, Aquatic Chronic 1 - H410, M Chronic = 1	
<b>≤ 93.0% Hydrocarbons</b>	
Classification (EC 1272/2008) Acute Tox. 4, H302, Acute Tox. 4, H312	
<b>≤ 2.0% Myrcene</b>	CAS No: 123-35-3 ; EC No: 204-622-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 3 - H412	

### 04. FIRST AID MEASURES

<b>4.1 Description of first aid measures</b>	
Inhalation	Remove from exposure area to fresh air. Obtain medical advice if irritation persists.
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. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.
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	Flush with plenty of water and seek medical advice.

<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>
Flammable. Suitable extinguishing media: CO <sub>2</sub> , Dry chemical powders and other extinguishing gases 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.
<b>5.2 Special hazards arising from the product</b>
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 <sub>2</sub> )
<b>5.3 Advice for firefighters</b>
Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## 06. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>
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).
<b>6.2 Environmental Precautions</b>
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).
<b>6.3 Methods and material for containment and cleaning up.</b>
Remove ignition sources. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Clean preferably with a detergent, do not use solvents.
<b>6.4 Reference to other sections</b>
No additional data available.

## 07. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>
Requirements relating to storage premises apply to all facilities where the substance is handled. 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**

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)**

Use as an odour agent / flavouring agent: Use in accordance with good manufacturing and industrial hygiene practices.

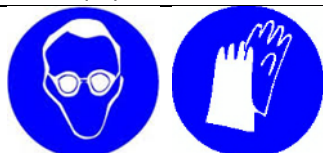
**08. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

No additional data available.

**8.2 Exposure controls**

Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. 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.
Respiratory Equipment	Not necessary in adequate ventilation of working area. Avoid inhalation of vapours.
Hand Protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. 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. Recommended properties: Impervious gloves in accordance with standard EN374
Eye Protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes

	Before handling, wear safety goggles in accordance with standard EN166.
Other Protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
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 to avoid all skin contact.
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, red orange to yellow.
Colour	Red orange to yellow.
Odour	Characteristic – citrus, grapefruit.
Relative Density	0.845 – 0.865 @ 20°C
Flash Point (°C)	43.0
Refractive Index	1.473 – 1.478 @ 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

Stable under normal temperature conditions and recommended use.

### 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

<b>10.5 Incompatible materials</b>
No additional data available.
<b>10.6 Hazardous Decomposition Products</b>
The thermal decomposition may release/form: carbon monoxide (CO) and carbon dioxide (CO <sub>2</sub> )

## 11. TOXOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	HYDROCARBONS Oral route: LD50 = 800 mg/kg Dermal route: LD50 = 1300 mg/kg
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.
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	Monograph(s) from the IARC (International Agency for Research on Cancer): CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
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. May be fatal if swallowed and enters airways. 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

<b>12.1 Toxicity</b>	
Very toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.	
<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 discharge into the environment especially not into waterways, sewers and the sea.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

##### 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	UN 1169
UN No. SEA	UN 1169
UN No. AIR	UN 1169

#### 14.2 UN proper shipping name

UN1169 = Extracts, Aromatic, Liquid.

#### 14.3 Transport hazard class(es)

ADR/RID/ADN Class: 3 Flammable Liquid.

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

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

IMDG									
Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
3	-	III	5 L	F-E,S-D	223 955	E1			
IATA									
Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
3	-	III	355	60 L	366	220 L	A3	E1	
3	-	III	Y344	10 L	-	-	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.									
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>									
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. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Other Information	No additional data available.
Revision Date	December 9, 2016
Reason for revision	Update to new format
Rev No/Repl, SDS Generated	02

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