



Safety Data Sheet

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

1.1 Product Identifier

Product Name		Tangerine Oil			
Biological Definition		Citrus Reticulata Peel Oil is the volatile oil obtained from the peel of tangerine, <i>Citrus reticulata</i> , <i>Rutaceae</i>			
INCI Name		Citrus Reticulata Peel Oil			
Synonyms & Trade Names		-			
CAS-No	8008-31-9/ 84929-38-4	EC No.	- / 284-521-0	EINECS No.	- / 284-521-0

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

Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

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)

Flammable Liquid, Hazard Category 3
 Skin Corrosion / Irritation Category 2
 Sensitization - Skin Category 1
 Aspiration Hazard Category 1
 Hazardous to the Aquatic Environment - Acute Hazard Category 1
 Hazardous to the Aquatic Environment - Long-term Hazard Category 1

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS02



GHS07



GHS08



GHS09



Signal Word

Danger.

Contains

Limonene, Myrcene, pinenes, linalool, Citral, decanal.

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.
P233, Keep container tightly closed.
P240, Ground/bond container and receiving equipment.
P241, Use explosion-proof electrical, ventilating and lighting equipment.
P242, Use only non-sparking tools.
P243, Take precautionary measures against static discharge.
P261, Avoid breathing vapour or dust.
P264, Wash hands and other contacted skin thoroughly after handling.
P272, Contaminated work clothing should not be allowed out of the workplace.
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.
P333/313, If skin irritation or rash occurs: Get medical advice/attention.
P362, Take off contaminated clothing and wash before reuse.

Supplementary Precautionary Statements

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391, Collect spillage.
P403/235, Store in a well-ventilated place. Keep cool.
P405, Store locked up.
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

2.3 Other Hazards

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

3.2 Mixtures

≤ 92.0% **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

≤ 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, Aquatic Chronic 3 - H412

≤ 2.0% **α-Pinene** CAS No: 80-56-8 ; EC No: 201-291-9

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

≤ 1.0% **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

<p>≤ 1.0% γ-Terpinene (<i>p</i>-mentha-1,4-diene) 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>≤ 1.0% Decanal CAS No: 112-31-2; EC No: 203-872-5</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315, Aquatic Chronic 3 - H412</p>
<p>≤ 1.0% β-Pinene CAS No: 127-91-3 ; EC No: 20-872-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317</p>
<p>≤ 0.4% Citral CAS No: 5392-40-5 ; EC No: 226-394-6</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317</p>

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove from exposure area to fresh air. Obtain medical advice immediately.
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.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.
 Causes skin irritation.
 May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: CO₂, Dry powder, Foam. Spray to base of flames.

5.2 Special hazards arising from the product

In case of fire, Carbon monoxide, Unidentified organic compounds may be liberated.

5.3 Advice for firefighters

Wear protective clothing. Avoid inhalation of vapours. Wear suitable respiratory equipment, if insufficient ventilation. Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

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. Maintain good occupational and personal hygiene. 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. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container.
6.4 Reference to other sections
See sections 8 and 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Keep away from heat, sparks and open flame.
7.2 Conditions for safe storage, including any incompatibilities
Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
7.3 Specific end use(s)
Flavours, Fragrances: 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	Provide adequate ventilation Avoid static discharges in working area.
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. Also refer to Sections 2 and 7.
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.
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09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Liquid, orange to dark orange.
Colour	Orange to dark orange.
Odour	Characteristic – Sweet citrus, tangerine.
Relative Density	0.844 – 0.870 @ 20°C
Flash Point (°C)	45
Refractive Index	1.471 to 1.482 @ 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	
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	
Not expected under normal temperature conditions and recommended use.	
10.4 Conditions to Avoid	
Heat, sparks and open flames.	
10.5 Incompatible materials	
Avoid contact with strong acids, alkalis and oxidising agents.	
10.6 Hazardous Decomposition Products	
Not expected under normal temperature conditions and recommended use.	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity: 83971.44 Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity: n/a Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity: n/a Inhalation Route: n/a
Skin corrosion / irritation	Causes skin irritation (H315).
Serious eye damage / irritation	No additional data available.
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


12.1 Toxicity
Marine pollutant. Very 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
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
12.6 Other adverse effects
Do not discharge into the environment especially not into waterways, sewers and the sea.

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.

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	
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	
No additional data available.	
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
<p><u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).</p> <p><u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p><u>EU Legislation</u> 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.</p>
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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