



Safety Data Sheet

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

1.1 Product Identifier

Product Name	Orange Oil Sweet				
Biological Definition	Citrus Aurantium Dulcis Peel Oil Expressed is an essential oil expressed from the fresh epicarps of the Sweet Orange, <i>Citrus aurantium L. var. dulcis L. (syn: Citrus sinensis), Rutaceae.</i>				
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
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data available.					
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

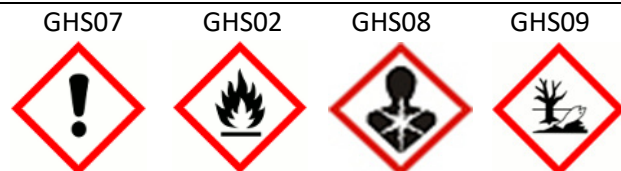
The full text for all hazard statements are displayed in Section 16.

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 Chronic 1 - H410

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word

Danger

Contains

Alpha pinene natural, a-terpineol (p-menth-1-en-8-ol), CITRAL, Citronellal, Decanal, d-LIMONENE, Linalool, Myrcene (7-methyl-3-methyleneocta-1,6-diene), Octanal

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/lighting/.../equipment.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P262 Do not get in the eyes, on skin, or on clothing.
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.

Supplementary Precautionary Statements

P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see ... on this label).
P331 Do NOT induce vomiting.
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.
P370+378 In case of fire: Use ... 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 ...

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

3.1 Substances

≤ 97.0% **D-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

1.0 – 5.0% α-Pinene Natural 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

1.0 – 5.0% a-Terpineol (p-menth-1-en-8-ol) CAS-No: 98-55-5 EC No.: 202-680-6

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

<p>1.0 – 5.0% 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>
<p>1.0 – 5.0% Citronellal CAS-No: 106-23-0 EC No.: 203-376-6</p> <p>Classification (EC 1272/2008): Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Chronic 2 - H411</p>
<p>1.0 – 5.0% Decanal CAS-No: 112-31-2 EC No.: 203-957-4</p> <p>Classification (EC 1272/2008): Skin Irrit. 2 - H315, Aquatic Chronic 3 - H412</p>
<p>1.0 – 5.0 Linalool CAS-No: 78-70-6 EC No.: 201-134-4</p> <p>Classification (EC 1272/2008): Skin Irrit. 2 - H315</p>
<p>1.0 – 5.0 % Myrcene (7-methyl-3-methylenoocta-1,6-diene) CAS-No: 123-35-3 EC No.: 204-622-5</p> <p>Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 Asp. Tox. 1 - H304</p>
<p>1.0 – 5.0 % Octanal CAS-No: 124-13-0 EC No.: 204-683-8</p> <p>Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412</p>

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air at once. Seek medical attention.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING!
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention if irritation or symptoms persist.
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. 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 ₂). Foam. Unsuitable extinguishing media: Water.	
5.2 Special hazards arising from the product	
When heated to decomposition, it emits acrid smoke as well as carbon monoxide and carbon dioxide.	

5.3 Advice for firefighters

Special Fire Fighting Procedures
Water is unsuitable to use as an extinguishing method.
Protective equipment for fire-fighters
Wear suitable respiratory equipment when necessary.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental Precautions

Avoid discharge into drains, water courses or onto the ground. Prevent further spillage if safe.

6.3 Methods and material for containment and cleaning up.

Absorb spillage with non-combustible, absorbent material. For waste disposal, see section 13.

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

Avoid spilling, skin and eye contact. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing. 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 dry, cool and well-ventilated place. Keep in original container.

7.3 Specific end use(s)

No additional data available.

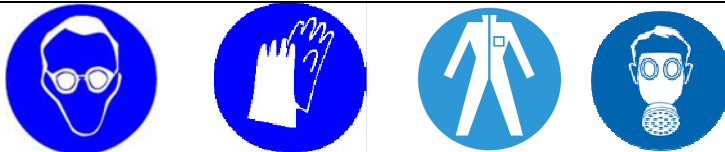
08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional data available.

8.2 Exposure controls

Protective Equipment



Process Conditions	No additional data available.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Self-contained breathing apparatus.
Hand Protection	Chemical resistant gloves (PVC).
Eye Protection	Wear approved chemical safety goggles where eye exposure is reasonably probable.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash hands at the end of each work shift and before eating, smoking and using the toilet.
Personal Protection	Avoid contact with skin and eyes. Avoid inhalation of vapours.

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	Mobile Liquid, orange to orange-red.
Colour	orange to orange red.
Odour	Characteristic
Relative Density	0.838 - 0.850 @ 20°C
Flash Point (°C)	48
Refractive Index	1.468 - 1.480 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	176 - 180
Vapour Pressure	No additional data available.
Solubility in Water @20°C	No additional data available.
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 the recommended handling and storage conditions.

10.3 Possible hazardous reactions

Hazardous Polymerisation
Unknown.

10.4 Conditions to Avoid

Avoid heat, sparks and open flame.

10.5 Incompatible materials

Avoid strong acids, alkalis and oxidising agents.

10.6 Hazardous Decomposition Products

No additional data available.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Skin corrosion / irritation	May cause sensitisation by skin contact.
Serious eye damage / irritation	Spray and vapour in the eyes may cause irritation and smarting.
Respiratory or skin sensitisation	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
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 contains a substance which is 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

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	1993
UN No. SEA	1993
UN No. AIR	1993

14.2 UN proper shipping name


FLAMMABLE LIQUID , N.O.S (Terpene Hydrocarbons).

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	
EMS	F-E-S-D
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	
Packed and transferred according to transport regulations.	

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
<u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). <u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108). <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.	
15.2 Chemical safety assessment	
No additional information available.	

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. 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	July 14, 2016
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

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