



Safety Data Sheet

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

1.1 Product Identifier					
Product Name		Orange Oil Bitter			
Biological Definition		Citrus Aurantium Amara Peel Oil is an essential oil expressed from the fresh epicarps of the Sour Orange, Citrus aurantium, Rutaceae. It contains D-limonene (about 90%), citral, decanaldehyde, methyl anthranilate, linalool, terpineol			
INCI Name		Citrus Aurantium Peel Oil Expressed			
Synonyms & Trade Names		-			
CAS-No	72968-50-4 / 68916-04-1	EC No.	277-143-2	EINECS No.	277-143-2
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	
<p><u>Human health</u> - Irritating to eyes and skin May be fatal if swallowed and enters airways. <u>Environment</u> - The product contains a substance which may cause long term adverse effects in the aquatic environment. <u>Physical and Chemical Hazards</u> - This product is flammable</p> <p>Hydrocarbon Content – 97%</p>	
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 2 - H401;Aquatic Chronic
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
Signal Word	Danger
Contains	d-Limonene, pinenes
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.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

none

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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
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.
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

3.2 Mixtures

60-100% 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
1-5% Myrcene (7-methyl-3-methylenoocta-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
1-5% 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

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. Remove victim immediately from source of exposure. 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	Remove immediately from source of exposure. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. If symptoms persist seek medical attention
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	
Treat symptomatically	

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 acid smoke as well as carbon monoxide and carbon dioxide.	
5.3 Advice for firefighters	
Wear full protective clothing. 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	
Do not discharge into drains, water courses or onto the ground.	
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 using non-sparking tools and transport outdoors. Avoid open flames or sources of ignition. Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations.	
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. Avoid 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
Keep product in its original container well sealed, in a dry, ventilated area, away from potential sources of ignition and protected from light. Stock according to local / national regulations and always follow the precautions indicated on labels.
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	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Self contained breathing apparatus
Hand Protection	Chemical resistant gloves (PVC)
Eye Protection	Wear approved safety goggles.
Other Protection	Wear appropriate clothing to prevent any possibility of skin 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 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
Colour	No additional data available.
Odour	Fruity, pleasant
Relative Density	0.840 - 0.860 @ 20°C
Flash Point (°C)	47°C
Refractive Index	1.472 - 1.476 @ 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.
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
No additional data available
10.4 Conditions to Avoid
Avoid heat, flames and other sources of ignition.
10.5 Incompatible materials
Materials To Avoid : strong 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. May cause discomfort if swallowed.
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
No additional data available
12.2 Persistence & degradability
No additional data available Click here to enter text.
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

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

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	1169	Road/rail transport notes - Avoid releasing into the environment
UN No. SEA	1169	Sea transport notes - do not release into the environment
UN No. AIR	1169	

14.2 UN proper shipping name

EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class(es)

ADR/RID/ADN 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

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 Statements in Full	H319 Causes serious eye irritation. H315 Causes skin irritation. H226 Flammable liquid and vapour. 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. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.
Other Information	None
Revision Date	June 24, 2015
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

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