



Safety Data Sheet

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

1.1 Product Identifier

Product Name	Mandarin Oil Blend				
Biological Definition	A blend of Mandarin Red and Sweet Orange essential oils.				
INCI Name	Citrus Nobilis Peel Oil Express and Citrus Aurantium Dulcis Peel Oil Expressed.				
Synonyms & Trade Names	---				
CAS-No	n/a	EC No.	n/a	EINECS No.	n/a

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

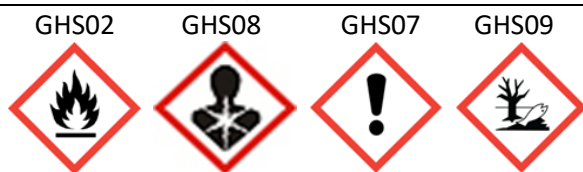
The full text for all hazard statements is displayed in Section 16.

Classification (EC 1272/2008)

Physical hazards: Flam. Liq. 3 - H226
Health hazards: Asp. Tox. 1- H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Irrit. 2 H319
Environmental hazards: Aquatic Acute 1 – H400, Aquatic Chronic 1- H410

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word

Danger.

Contains

d-Limonene, Myrcene, Gamma-terpinene, alpha-Pinene, beta-Pinene

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.
H319: Causes serious eye irritation.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements	
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261: Avoid breathing mist/vapours/spray. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352: IF ON SKIN: Wash with plenty of water. P331: Do NOT induce vomiting. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P370+P378: In case of fire: Use Foam, Extinguishing powder, Carbon dioxide to extinguish. P391: Collect spillage.	
Supplementary Precautionary Statements	
P264: Wash hands and exposed skin thoroughly after handling. P362+P364: Take off contaminated clothing. And wash it before reuse.	
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	
<98.0% Limonene	CAS-No: 5989-27-5 EC No: 227-813-5
Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp Tox. 1 – H304, Skin Irrit 2 – H315, Skin Sens. 1 – H317 Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410	
<5.0% Linalool	CAS-No: 78-70-6 EC No: 201-134-4
Classification (EC 1272/2008) Skin Irrit 2 – H315, Skin Sens. 1 – H317, Eye Irrit. 2 - H319	
1.0-5.0 % Myrcene	CAS-No: 123-35-3 EC No: 204-622-5
Classification (EC 1272/2008) Flam. Liq. 3- H226, Asp. Tox. 1- H304, Skin Irrit. 2- H315, Eye Irrit. 2- H319, Aquatic Acute 1- H400, Aquatic Chronic 1- H410	
1.0-5.0% Decanal	CAS No: 112-31-2 EC No: 203-957-4
Classification (EC 1272/2008) Eye Irrit. 2 - H319, Aquatic Chronic 3 - H412	
1.0 – 5.0% alpha-Pinene	CAS-No: 80-56-8 EC No: 201-291-9
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Acute Tox. 4 - H302, Asp Tox. 1 – H304, Skin Irrit 2 – H315, Skin Sens. 1 – H317, Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410	
<2.5% Octanal	CAS-No: 124-13-0 EC No: 204-683-8
Classification (EC 1272/2008 Flam. Liq. 3 - H226, Skin Irrit. 2- H315, Eye Irrit. 2- H319, Aquatic Chronic 2 -H411	

<1.51% Citral	CAS-No: 5392-40-5 EC No: 226-394-6
Classification (EC 1272/2008) Skin Irrit. 2- H315, Skin Sens. 1- H317	
<1.5% gamma-Terpinene	CAS-No: 99-85-4, EC No: 202-794-6
Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp Tox. 1 – H304	
<1.0% 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	
<1.0% Citronellal	CAS-No: 106-23-0 EC No: 203-376-6
Classification (EC 1272/2008) Skin Irrit 2 – H315, Skin Sens. 1 – H317, Eye Irrit -. 2 H319, Aquatic Chronic 2 - H411	
<1.0% beta-Pinene	CAS-No: 127-91-3 EC No: 204-872-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp Tox. 1 – H304, Skin Irrit 2 – H315, Skin Sens. 1 – H317, Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410	

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/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. Get medical advice/attention. Continue to rinse.
4.2 Most important symptoms and effects, both acute and delayed	
Can cause slight skin rash.	
4.3 Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Foam, Extinguishing powder, Carbon dioxide (CO ₂) Avoid full water jet	
5.2 Special hazards arising from the product	
Vapours may form explosive mixture with air – in case of fire, the following can be released: Carbon monoxide, Carbon dioxide, smoke.	
5.3 Advice for firefighters	
Move undamaged containers from immediate hazard area if it can be done safely. Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing.	

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non emergency personnel: In an emergency (ie unintentional important release of the product in enclosed space) respiratory protection (Gas filter A. Colour code brown: consider the maximum duration of wear) must be worn. Use insulating device for respiratory protection with an independent air supply in circumstances which are unclear – use adequate protection that is solvent resistant: security shoes, bodysuit, gloves and protective goggles (see point 8)

For emergency responders: As per non emergency personnel

Emergency procedures: Remove any ignition source and ensure adequate ventilation in working areas following accidental release.

6.2 Environmental Precautions

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.

6.3 Methods and material for containment and cleaning up.

Keep away from heat and use non-combustible absorbing sawdust (sand, specific binder). Refer to point 13 for the appropriate methods of waste treatment.

6.4 Reference to other sections

See protective measures under point 4, 8 and 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide earthing of containers, equipment, pumps and ventilation facilities.
Take precautionary measures against static discharges.
Wear personal protective clothing (see chapter 8).
Do not breathe gas/fume/vapour/spray
Use only in well-ventilated areas.
When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

7.3 Specific end use(s)

No additional data available.

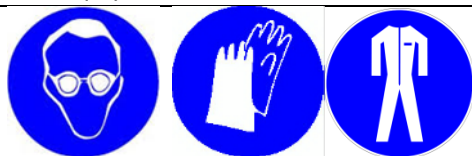
08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional data available.

8.2 Exposure controls

Protective Equipment



Process Conditions

Provide eyewash station.

Engineering Measures

Provide adequate ventilation or respiratory protection.

Respiratory Equipment	Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Hand Protection	Wear 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.
Eye Protection	Use protection goggles according to EN166.
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	Use personal protection when handling.
Skin Protection	Wear appropriate protective clothing 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.
Environmental Exposure Controls	Avoid discharging into drainage water. Only remove via authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Mobile liquid, dark yellow to orange-red.
Colour	Dark yellow to orange-red.
Odour	Characteristic
Relative Density	Approx. 0.846 @ 20°C
Flash Point (°C)	45°C
Refractive Index	Approx. 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 dangerous reactions known if used in accordance with storage and handling conditions.

10.2 Chemical stability

Product is stable at room temperature.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to Avoid

Avoid extreme heat and direct sunlight.

10.5 Incompatible materials

Avoid strong acids, alkalis and oxidising agents.

10.6 Hazardous Decomposition Products

The thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Not classified.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS



13.1 Waste treatment methods

Hazardous waste according to waste regulation
Dispose according to legislation.
Delivery to an approved waste disposal company.
Non-contaminated packages may be recycled.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	1169
UN No. SEA	1169
UN No. AIR	1169

14.2 UN proper shipping name
EXTRACTS, AROMATIC, LIQUID
14.3 Transport hazard class(es)
ADR/RID/ADN Class: 3 ADR/RID/ADN Class: 3 IMDG Class 3
Transport Labels

Tariff Number 3301192000
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
See section 6 to 8.
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
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. 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. H411: Toxic to aquatic life with long lasting effects. H412:Harmful to aquatic life with long lasting effects.
Other Information	None
Revision Date	April 4, 2018
Reason for revision	First issue
Rev No/Repl, SDS Generated	01

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