

Safety Data Sheet

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

Product Identifier 1.1

Product Name			Bergamot FCF Oil.			
Biolo	ogical Definition		Citrus Aurantium Bergamia Peel Oil is the volatile oil obtained from the			
			peel of Citrus aurantium bergamia, Rutaceae.			
INCI	Name		Citrus Aurantium Bergamia Peel Oil.			
Sync	Synonyms & Trade Names		-			
CAS-	CAS-No 89957-91-5		EC No.	289-612-9	EINECS No.	289-612-9
1.2	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.			actices.		
1.3	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.

Eye Damage / 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.

H226, Flammable liquid and vapour.

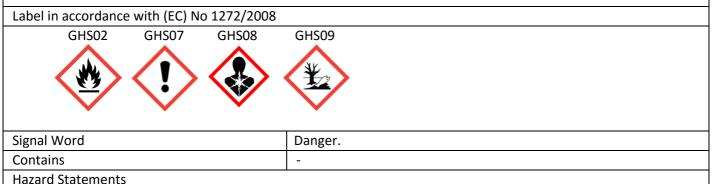
H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

2.2 Label Elements



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 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. 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 IN SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P333/313, Do not induce vomiting. P333/313, IF NI FVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333/313, IF and reperiminated clothing and wash before reuse.					
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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.Supplementary Precautionary StatementsNone.2.3 Other HazardsPBT or vPvB according to Annex XIIINo additional data available.No additional data available.					
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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. Supplementary Precautionary Statements None. 2.3 Other Hazards PBT or vPvB according to Annex XIII No additional data available. Adverse physio-chemical properties No additional data available.	P370/378, In case of fire: Use carbon did	P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.			
P405, Store locked up. P501, Dispose of contents/container to approved disposal site, in accordance with local regulations. Supplementary Precautionary Statements None. 2.3 Other Hazards PBT or vPvB according to Annex XIII Adverse physio-chemical properties No additional data available.					
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations. Supplementary Precautionary Statements None. 2.3 Other Hazards PBT or vPvB according to Annex XIII No additional data available. Adverse physio-chemical properties No additional data available.					
Supplementary Precautionary Statements None. 2.3 Other Hazards PBT or vPvB according to Annex XIII No additional data available. Adverse physio-chemical properties No additional data available.					
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PBT or vPvB according to Annex XIII No additional data available. Adverse physio-chemical properties No additional data available.	None.				
Adverse physio-chemical properties No additional data available.	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

38.39% Linalyl Acetate CAS-No: 115-95-7; EC No.: 204-116-4

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

34.79% 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

13.79% 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

7.58% β-Pinene CAS No: 127-91-3 ; EC No: 20-872-5

Classification (EC 1272/2008) : Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317

7.56% y-Terpinene (p-mentha-1,4-diene) CAS No99-85-4 ; EC No: 202-794-6

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp Tox. 1 – H304;

1.89% 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

1.14% 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

1.09% Citral CAS No: 5392-40-5 ; EC No: 226-394-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317

0.56% Geranyl Acetate CAS-No.: 105-87-3 EC No.: 203-341-5

Classification (EC 1272/2008) Aquatic Chronic 2 - H411

0.41% Beta Caryophyllene CAS-No.: 87-44-5 EC No.: 201-746-1

Classification (EC 1272/2008) : Asp. Tox. 1 - H304

0.22% P-Mentha-1,3-Diene CAS: 99-86-5, EC: 202-795-1

Classification (EC 1272/2008) Asp. Tox. 1, H304, Acute Tox. 4, H302, Aquatic Chronic 2, H411, Flam. Liq. 3, H226

0.22% p-Cymene CAS-No.: 99-87-6; EC No.: 202-796-7

Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Acute Tox. 5 - H303, Aquatic Chronic 2, H411, Skin Irrit. 3 - H316

0.17% d,l-Limonene (isomer unspecified) CAS-No.: 7705-14-8; EC No.: 231-732-0

Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Chronic 1, H410

04. FIRST AID MEASURES

4.1 Description of first aid measures Inhalation Remove from exposure area to fresh air. Obtain medical advice immediately.

Ingestion Immediately call a POISON CENTER		Immediately call a POISON CENTER or doctor/physician.	
Skin Contact Remove/take off immediately all contaminated clothing. Rinse ski		Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.	
Eye Contact		Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to	
		do. Continue rinsing.	
4.2	Most imp	portant symptoms and effects, both acute and delayed	
	May be fa	tal if swallowed and enters airways.	
	Causes ski	n irritation.	
	May cause an allergic skin reaction.		
	Causes serious eye irritation.		
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
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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

In case of insufficient ventilation, wear suitable respiratory equipment.

06. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures
	Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.
6.2	Environmental Precautions
	Keep away from drains, surface and ground water, and soil.
6.3	Methods and material for containment and cleaning up.
	Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.
6.4	Reference to other sections
	See sections 8 and 13.

07. HANDLING AND STORAGE

7.1	Precautions for safe handling	
	Keep away from heat, sparks, open flames and hot surfaces No smoking.	
7.2	Conditions for safe storage, including any incompatibilities	
	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.	

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance	Liquid, pale yellow.	
Colour	Pale yellow.	
Odour	Characteristic citrus bergamot.	
Relative Density	0.847 – 0.870 @ 20°C	
Flash Point (°C)	54	
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	No additional data available.	
temperature (°C)		
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

Good stability under normal storage conditions.

10.3	Possible hazardous reactions	
	Not expected under normal temperature conditions and recommended use.	
10.4	Conditions to Avoid	
	Avoid extreme heat.	
10.5	Incompatible materials	
	Avoid contact with strong acids, alkalis and oxidising agents.	
10.6	0.6 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: 13396.24	
	Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity: 207373.27	
	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
	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
	No additional data available.

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.

	ANSPORT 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 nar	me
	Extracts, Aromatic, Liquid.	
14.3	Transport hazard class(es)
	ADR/RID/ADN Class: 3 F	lammable Liquid.
		lammable Liquid.
	ICAO Class/Division: 3 F	lammable Liquid.
	Transport Labels	
	FLAMMABLE	
	2	
14.4	Packing group	
	ADR/RID/ADN Packing grou	
	IMDG Packing group	
	ICAO Packing group	III
14.5	Environmental hazards	
	Environmentally Hazardous	Substance/Marine Pollutant.
	•	
	AV	
	$\langle \Upsilon_2 \rangle$	
14.6	Special precautions for	licor
14.6	Special precautions for	
	No additional data available	2.
14.7	Transport in bulk accor	ding to Annex II of MARPOL73/78 and the IBC code
	No additional data available	2.

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	H226 Flammable liquid and vapour.
Statements in Full	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.
	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	Complies with REACH guidance for SDS as circulated by ECHA 2011.
Revision Date	May 27, 2016
Reason for revision	New SDS.
Rev No/Repl, SDS Generated	01

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.