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## MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Bergamot Oil FCF Organic.			
Biological Definition		Citrus Bergamia Peel Oil Expressed is an essential oil expressed from the epicarps of the Bergamot, <i>Citrus bergamia risso</i> , <i>Rutaceae</i> .			
INCI Name		Citrus Bergamia Peel Oil Expressed			
Synonyms & Trade Names		-			
CAS-No	8007-75-8	EC No.	616-915-9	EINECS No.	616-915-9
1.2 Relative identified uses of the substance or mixture and uses advised against					
Relevant Uses: Flavours, Fragrances and flavouring agent in alcohol. Use in accordance with good manufacturing and industrial hygiene practices.					
1.3 Details of the supplier of the safety data sheet					
1.4 Emergency Tel. No.		+ 44 (0) 1260 222 943			

### 02. HAZARD 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 hazards: <ul style="list-style-type: none"><li>- Flam. Liq. 3 - H226</li></ul> Health hazards: <ul style="list-style-type: none"><li>- Asp. Tox. 1- H304</li><li>- Skin Irrit. 2 - H315</li><li>- Skin Sens. 1B - H317</li><li>- Eye Irrit. 2 - H319</li></ul> Environmental hazards: <ul style="list-style-type: none"><li>- Aquatic Acute 1- H400</li><li>- Aquatic Chronic 1- H410</li></ul>				
2.2 Label Elements				
Label in accordance with (EC) No 1272/2008				
GHS02	GHS08	GHS07	GHS09	

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Signal Word	Danger.
Contains	d-Limonene, beta-Pinene, Y-terpinene
<b>Hazard Statements</b>	
H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.	
<b>Precautionary Statements</b>	
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P241 Use explosion-proof electrical / ventilating / lighting equipment. P262 Do not get in eyes, on skin or on clothing. 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 or doctor/physician. P331 Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 In case of fire: Use Carbon dioxide, Dry powder or Foam to extinguish. P501 Dispose of contents/container according to the local regulations.	
<b>Supplementary Precautionary Statements</b>	
P264 Wash hands and exposed skin thoroughly after handling.	
<b>2.3 Other Hazards</b>	
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

#### ≤47.0% d-Limonene

CAS: 5989-27-5 EC: 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

#### ≤30.0% Linalyl Acetate

CAS: 115-95-7 EC: 204-116-4

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<p>Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> <li>- Skin Irrit. 2 - H315</li> <li>- Eye Irrit. 2 - H319</li> </ul>
<p><b>≤15.0% Linalool</b>  CAS: 78-70-6 EC: 201-134-4  Classification (EC 1272/2008)  Skin Irrit. 2 - H315  Skin Sens. 1B - H317  Eye Irrit. 2 - H319</p>
<p><b>≤7.0% beta-Pinene</b>  CAS: 127-91-3 EC: 204-872-5  Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> <li>- Flam. Liq. 3 - H226</li> <li>- Asp. Tox. 1 - H304</li> <li>- Skin Irrit. 2 - H315</li> <li>- Skin Sens. 1 - H317</li> <li>- Aquatic Acute 1 – H400</li> <li>- Aquatic Chronic 1 – H410</li> </ul>
<p><b>≤7.0% Y-terpinene</b>  CAS: 99-85-4 EC: 202-794-6  Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> <li>- Flam. Liq. 3 – H226</li> <li>- Asp Tox. 1 – H304</li> </ul>
<p><b>≤1.0% Myrcene (7-methyl-3-methylenoocta-1,6-diene)</b>  CAS: 123-35-3 EC:204-622-5  Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> <li>- Flam. Liq. 3 - H226</li> <li>- Asp. Tox. 1 - H304</li> <li>- Skin Irrit. 2 - H315</li> <li>- Eye Irrit. 2 - H319</li> <li>- Aquatic Acute 1 – H400</li> <li>- Aquatic Chronic 1 – H410</li> </ul>
<p><b>≤1.0% Sabinene</b>  CAS: 3387-41-5 EC: 222-212-4  Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> <li>- Flam. Liq. 3 - H226</li> <li>- Asp. Tox. 1 - H304</li> </ul>
<p><b>≤1.0% Alpha-pinene</b>  CAS: 80-56-8 EC: 201-291-9  Classification (EC 1272/2008)</p> <ul style="list-style-type: none"> <li>- Flam. Liq. 3 - H226</li> <li>- Acute Tox. 4 H302</li> <li>- Asp. Tox. 1 - H304</li> <li>- Skin Irrit. 2 - H315</li> <li>- Skin Sens. 1 - H317</li> <li>- Aquatic Acute 1 – H400</li> </ul>

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- Aquatic Chronic 1 – H410

**≤1.0% Citral**

CAS: 5392-40-5 EC: 226-394-6

Classification (EC 1272/2008)

- Skin Irrit. 2- H315
- Skin Sens. 1- H317

## 04. FIRST AID MEASURES

### 4.1 Description of first aid measures

Inhalation	Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth and drink abundant water to dilute substance. Avoid vomiting, risk of aspiration!
Skin Contact	Remove contaminated clothes. Wash affected areas with copious amounts of water.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms:

- Inhalation: Can cause slight headache
- Contact: can cause bloodshot eyes – can cause slight skin rash.

Acute and delayed effects:

- no post disorder effects are reported.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

First aid specific means: eye wash fountain, safety shower should be available in the work area.

## 05. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

Carbon dioxide, Dry powder or Foam. Cool containers with water.

### 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, soot.

### 5.3 Advice for firefighters

Use chemical protection clothing and self-contained breathing apparatus.

## 06. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

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

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For emergency responders: as per non emergency personnel.

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

## 6.2 Environmental Precautions

Keep away from sewerage, surface water and groundwater. Do not allow to enter sewerage system.

## 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 point 4, 8 & 13.

## 07. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Safe handling: during handling keep original container closed - avoid contact with skin and eyes – wear adequate protective gloves protection and eye/face protection - avoid any sources of ignition - avoid exposing to high temperature during processing - maintain adequate local and general ventilation where product is handled.

Hygiene at work: do not ingest or apply to the skin as such - no smoking - remove contaminated clothing – good personal washing routines should be followed - if at risk of contamination, foods, beverages and other articles of consumption must not be stored or consumed at the work areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Container: to be stored in stainless steel drums, preferably under inert atmosphere (nitrogen) with minimum head space, protected from day-light. • take note: the container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium- or long-term warehousing.

Conditions: stored in a dry, aerated place, away from any heat source and ignition source.

Temperature: from 5 °C and 20 °C.

### 7.3 Specific end use(s)

Use as odour agent / flavouring agent - the information of this section is not related to the use of the product in combination with any other material or any other process altering its characteristics.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Not determined.

### 8.2 Exposure controls

Protective Equipment

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Process Conditions	Provide eyewash station.
Engineering Measures	Where appropriate, use closed system to transfer and process this material - if appropriate, isolate mixing rooms and other areas where this material is used or openly handled - maintain these areas under negative air pressure relative to the rest of the plant.
Respiratory Equipment	Not necessary in adequate local with general ventilation - avoid breathing vapours.
Hand Protection	Suitable gloves tested to EN374 (should be checked regularly) - always use with clean, dry hands.
Eye Protection	Protective goggles with built-in-frame tested to EN166 (should be checked regularly).
Other Protection	Measures should be taken to prevent materials from being splashed into the eyes or on the skin. Wear eye shields and protective clothing.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Protective work clothing solvent resistant (should be checked regularly).
Skin Protection	Avoid contact with skin. Wear suitable gloves.
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	Clear liquid.
Colour	Yellow.
Odour	Citrus, bergamot.
Relative Density	Approx. 0.86 @ 20°C
Flash Point (°C)	Approx. 57°C
Refractive Index	Approx. 1.463 @ 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

Substance not reactive with water - substance not reactive if used according to storage & handling conditions & identified uses (see subsection 1.2).

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## 10.2 Chemical stability

Substance stable if used according to storage & handling conditions & identified uses (see subsection 1.2).

## 10.3 Possible hazardous reactions

None if used according to storage & handling conditions & identified uses (see subsection 1.2).

## 10.4 Conditions to Avoid

Avoid exposure to heat.

## 10.5 Incompatible materials

Strong oxidizers.

## 10.6 Hazardous Decomposition Products

No known hazardous decomposition products under recommended storage & handling conditions - in case of combustion: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

## 11. TOXOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute Toxicity	LD50 11.52 g/kg.
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	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.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Aquatic life: hazard statement: Very toxic to aquatic life with long lasting effects.  
 Algae/aquatic plants: EC50 6.2 mg/l (48h) calculated value [source RIFM].  
 Fish/aquatic invertebrates: No additional data available.  
 PNECs: No additional data available.

### 12.2 Persistence & degradability

This substance to be considered as a readily biodegradable substance; based on its ready biodegradability, oil does not fulfil the criteria for persistence.

### 12.3 Bioaccumulation Potential

Very toxic to aquatic life with long lasting effects.

### 12.4 Mobility in soil

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This substance is considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required in accordance with column 2 of REACH Annex IX.

## 12.5 Results of PBT and vPvB Assessment

This substance is not classified as: PBT or vPvb / CMR.

## 12.6 Other adverse effects

No additional data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

The containers used for this product must completely empty before disposal. Dispose product and/or contaminated packaging in accordance with federal, state and local environmental control regulations - disposal through the waste water is illegal.

## 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  
ICAO – Class 3

Transport Labels



### 14.4 Packing group

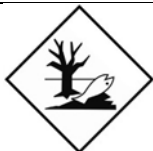
ADR/RID/ADN Packing group – III  
IMDG Packing group – III  
ICAO Packing group – III

### 14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



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## 14.6 Special precautions for user

None.

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

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## 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 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.
Revision Date	03/01/2020
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