

Material Safety Data Sheet: Bergamot FCF

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

1.1 Product Identifier					
Product Name		Bergamot FCF Oil			
Biological Definition		Citrus Aurantium Bergamia Peel Oil is the volatile oil obtained from the peel of <i>Citrus aurantium bergamia</i> , <i>Rutaceae</i> .			
INCI Name		Citrus Aurantium Bergamia Peel Oil.			
Synonyms & Trade Names		-			
CAS-No	89957-91-5	EC No.	289-612-9	EINECS No.	289-612-9
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.					
1.3 Details of the supplier of the safety data sheet					
NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR					
1.4 Emergency Tel. No.			+44(0)1603 610883		

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)

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
 Hazardous to the Aquatic Environment - Long-term Hazard Category 1.
 H226, Flammable liquid and vapour.
 H226, Flammable liquid and vapour.
 H315, Causes skin irritation.
 H317, May cause an allergic skin reaction.
 H319, Causes serious eye irritation.

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS02

GHS07

GHS08

GHS09



Signal Word

Danger

Contains

-

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 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.
 P264 Wash hands and other contacted skin thoroughly after handling.
 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 ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P331 Do not induce vomiting.
 P333/313 If skin irritation or rash occurs: Get medical advice/attention.
 P337/313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.
 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 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.
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
≤ 45.0% 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
≤ 15.0% 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% γ-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
1.5% 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	Move the exposed person to fresh air at once.
Ingestion	Immediately call a POISON CENTER or doctor/physician.
Skin Contact	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 important symptoms and effects, both acute and delayed
	May be fatal if swallowed and enters airways. Causes skin irritation.

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	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
Suitable extinguishing media: CO ₂ , 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.

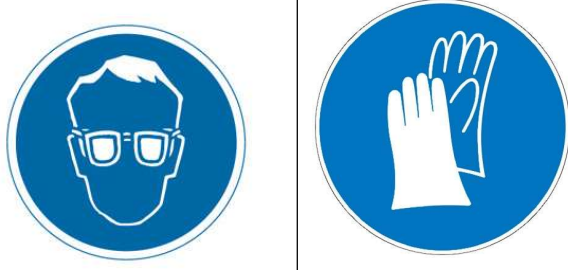
06. ACCIDENTAL RELEASE MEASURES

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	Safety shower and eye bath.
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 to yellow.
Colour	Pale yellow to yellow.
Odour	Characteristic citrus bergamot.
Relative Density	0.870 - 0.888 @ 20°C
Flash Point (°C)	54
Refractive Index	1.460 to 1.470 @ 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	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 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.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	UN 1169
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UN No. SEA	UN 1169
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UN No. AIR	UN 1169
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14.2 UN proper shipping name

Extracts, Aromatic, Liquid.

14.3 Transport hazard class(es)

ADR/RID/ADN Class:	3 Flammable Liquid.
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ICAO Class/Division:	3 Flammable Liquid.
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IMDG Class:	3 Flammable Liquid.
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Transport Labels	
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14.4 Packing group

ADR/RID/ADN Packing group	III
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IMDG Packing group	III
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ICAO Packing group	III
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14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6 Special precautions for user

No additional data available.

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

No additional data available.

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	<p>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.</p>
15.2	Chemical safety assessment
	No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>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. 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.</p>
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011.
Revision Date	27/05/2016
Reason for revision	Updated New Format SDS.
Rev No/Repl, SDS Generated	01

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