



Essential Oils, Skincare & Aromatherapy Products

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Bergamot (FCF) Essential Oil

SUPPLIER: Celtic Tree Oils, Carlingford, Co. Louth, Ireland, A91 D86V

PRODUCT NUMBER: 4

CAS NUMBER: 89957-91-5

EC NUMBER: 289-612-9

INCI: Citrus Bergamia Peel Oil Expressed

IDENTIFIED USES: Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

Biological Definition: Citrus Bergamia Peel Oil Expressed is an essential oil expressed from the epicarps of the Bergamot, Citrus bergamia risso, Rutaceae.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 89957-91-

EC: 289-612-9

PHYSICAL HAZARDS:

Flam Liq 3; FL3 – H226

HEALTH HAZARDS:

Asp Tox 1; AH1 – H304,

Skin Irrit 2; SC12 – H315,

Skin Sens 1; SS1 – H317,

Eye Irrit 2; ED12 – H319

ENVIRONMENTAL HAZARDS:

Aquatic Chronic 2; EHC2 – H411

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

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.

H411, Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P241, Use explosion-proof electrical, ventilating and lighting equipment.

P262, Do not get in eyes, on skin, or on clothing.

P273, Avoid release to the environment.

P280, Wear protective gloves/eye protection/face protection.

SDS: 4 Bergamot (FCF) Essential Oil

Compiled by: Johndan Chilcott, Regulatory Affairs Officer. | Date: 21/03/2019 - Version: 5

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.
 P405, Store locked up.
 P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

CONTAINS: Limonene, Linalyl Acetate, Linalool, γ -Terpinene, β -Pinene, Myrcene, α -Pinene.

3: COMPOSITION/INFORMATION ON INGREDIENTS

32 - 47% Limonene	
CAS NUMBER: 5989-27-5	EC NUMBER: 227-813-5
CLASSIFICATION (EC1272/2008):	AH1, EHC1, FL3, SCI2, SS1B
22 - 37% Linalyl Acetate	
CAS NUMBER: 115-95-7	EC NUMBER: 204-116-4
CLASSIFICATION (EC1272/2008):	EDI2A, FL4, SCI2
5 - 15% Linalool	
CAS NUMBER: 78-70-6	EC NUMBER: 201-134-4
CLASSIFICATION (EC1272/2008):	ATO5, EDI2A, FL4, SCI2
≤ 9% γ-Terpinene	
CAS NUMBER: 99-85-4	EC NUMBER: 202-794-6
CLASSIFICATION (EC1272/2008):	AH1, FL3, SCI3
≤ 10% β-Pinene	
CAS NUMBER: 127-91-3	EC NUMBER: 20-872-5
CLASSIFICATION (EC1272/2008):	AH1, FL3, SCI2, SS1B
≤ 2.5% Myrcene	
CAS NUMBER: 123-35-3	EC NUMBER: 204-622-5
CLASSIFICATION (EC1272/2008):	AH1, EDI2A, FL3, SCI2
≤ 2.5% α-Pinene	
CAS NUMBER: 80-56-8	EC NUMBER: 201-291-9
CLASSIFICATION (EC1272/2008):	AH1, FL3, SCI2, SS1B, ATO5

4: FIRST AID MEASURES

INHALATION:	Remove from exposure area to fresh air. Obtain medical advice.
INGESTION:	Immediately seek medical attention. Rinse mouth with water. DO NOT INDUCE VOMITING!
SKIN CONTACT:	Immediately remove all contaminated clothing. Rinse skin thoroughly with water/shower. Seek medical attention if irritation occurs.
EYE CONTACT:	Rinse thoroughly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	Inhalation - Can cause slight headache. Contact - Can cause bloodshot eyes. Can cause slight skin rash. No post disorder effects reported.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	See Section 4.1 for further information. Eye wash station and safety shower should be available at all times in the work area.

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	SMALL FIRE:	CO2, Dry powder, Foam.
	LARGE FIRE:	Large fire; use water spray or fog. Cool containers with water jet to prevent pressure build up, auto-ignition or explosion Pressurised water jet.
UNSUITABLE EXTINGUISHING MEDIA: SPECIAL HAZARDS ARISING FROM THE PRODUCT:		Vapours may form an explosive mixture with air. In case of fire; Carbon Monoxide (CO), Carbon dioxide (CO2), smoke and soot may be formed.
ADVICE FOR FIREFIGHTERS:		Standard firefighting procedure for chemical fires. Spray extinguishing media to base of flames. Wear adequate respiratory equipment to avoid inhalation of vapours.

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	In an emergency (i.e. unintentional important release of the product in an enclosed space) respiratory protection must be worn. (Gas filter A, colour code brown: consider the maximum duration for wear). Use insulating device for respiratory protection with an independent air supply in circumstances which are unclear. Use adequate protections that are solvent resistant: security shoes, bodysuit, gloves, protective goggles. Remove any ignition source and ensure adequate ventilation in working areas following accidental releases.
ENVIRONMENT PRECAUTIONS: CLEANING UP METHODS FOR SPILLAGES:	Keep away from drains, surface and ground water, and soil. Remove ignition sources. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container.

7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

During handling, keep original container closed. Avoid contact with the skin and eyes. Wear adequate protective gloves and eye/face protection. Avoid any source of ignition. Avoid exposure to high temperatures. Ensure adequate ventilation in the work area.

OCCUPATIONAL HYGIENE

Do not ingest or apply to the skin. No smoking. Remove contaminated clothing. Good personal hygiene must be adhered.

STORAGE PRECAUTIONS

Do not consume or store food in the work area.

Store in stainless steel drums, preferably under inert atmosphere (Nitrogen) with minimum head space. Protect from day light. **TAKE NOTE** – the container used during transportation must be considered only as a temporary container and must not be considered in any case adequate for medium to long term storage. Store in a dry aerated place away from heat or ignition sources.

Storage temperature; 5 – 20°C

SPECIFIC END USE(S)

Use as an odour / flavouring agent.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

APPROPRIATE ENGINEERING CONTROLS

Provide adequate ventilation. Avoid static discharges in working area.

EYE/FACE PROTECTION

Avoid contact with eyes. Wear approved safety goggles with built in frame (tested to EN166 and should be checked regularly).

HAND PROTECTION

Avoid all skin contact. Wear chemical resistant gloves (tested to EN374 and checked regularly).

OTHER SKIN AND BODY PROTECTION

Wear apron or protective clothing to avoid skin contact.

HYGIENE MEASURES

Avoid inhalation and contact with skin and eyes.

Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.

RESPIRATORY PROTECTION

Ensure adequate ventilation in the work area. Avoid inhalation of vapours.

ENVIRONMENTAL EXPOSURE CONTROLS

Avoid discharging into drainage water. Only eliminate by authorised companies

9: PHYSICAL AND CHEMICAL PROPERTIES

COLOUR	PALE YELLOW TO YELLOW.
APPEARANCE	LIQUID, PALE YELLOW TO YELLOW.
ODOUR	CHARACTERISTIC CITRUS BERGAMOT.
FLASH POINT °C	~57
SPECIFIC GRAVITY @ 20°C:	~0.867
REFRACTIVE INDEX @ 20°C	~1.465
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	Negligible in water. Soluble in alcohol and other oils.
AUTO-IGNITION TEMPERATURE (°C)	No additional data available.

10: STABILITY AND REACTIVITY

REACTIVITY:	Stable under normal handling and storage conditions.
CHEMICAL STABILITY:	Stable under normal handling and storage conditions.
POSSIBLE HAZARDOUS REACTIONS	Not expected under normal temperature conditions and recommended use.
CONDITIONS TO AVOID	Avoid exposure to heat.
INCOMPATIBLE MATERIALS	Avoid highly oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Not expected under normal temperature conditions and recommended use. In case of combustion: Carbon Monoxide (CO) and carbon Dioxide (CO ₂) may be formed.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	LD50 11.52g/kg (source RIFM)
SKIN CORROSION / IRRITATION	Causes skin irritation (H315).
SERIOUS EYE DAMAGE / IRRITATION	Causes serious eye irritation (H319)
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

ECOTOXICITY	H 411 - Toxic to aquatic life with long lasting effects. EC50 6.2mg/l (48h) calculated value (Source RIFM)
PERSISTENCE AND DEGRADABILITY	This material is considered to be readily biodegradable, therefore does not fulfil the criteria for persistent.
BIOACCUMULATIVE POTENTIAL	This material is considered to be readily biodegradable, therefore bioaccumulation is not expected.
MOBILITY IN SOIL	This material is considered to be readily biodegradable, therefore tests in surface water, sediment and soil are not required.
RESULTS OF PBT AND vPvB ASSESSMENT	This substance is not classified as PBT, vPvB / CMR (source RIFM)

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Containers must be completely empty before disposal. Do not release into the environment. Collect waste into suitable containers and dispose of in accordance with local authority guidelines.
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14: TRANSPORT INFORMATION

UN NO. ROAD	UN 1169
UN NO. SEA	UN 1169
UN NO. AIR	UN 1169
PROPER SHIPPING NAME	Extracts, Aromatic, Liquid.
TRANSPORT HAZARD CLASS(ES)	
ADR/RID/ADN CLASS:	3 Flammable Liquid.
IMDG CLASS:	3 Flammable Liquid.
ICAO CLASS/DIVISION:	3 Flammable Liquid.



PACKING GROUP	
ADR/RID/ADN PACKING GROUP	III
IMDG PACKING GROUP	III
ICAO PACKING GROUP	III
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	Environmentally Hazardous Substance/Marine Pollutant.



SPECIAL PRECAUTIONS FOR USER	This material contains constituents that are flammable and dangerous to the environment. In case of pouring out – make sure containers are labelled accordingly, reproducing the original labelling with relevant symbols.
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE	No additional data available.

15: REGULATORY INFORMATION

STATUTORY INSTRUMENTS:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

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.

GUIDANCE

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16: OTHER INFORMATION

HAZARD AND/OR PRECAUTIONARY STATEMENTS IN FULL

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.
H411 Toxic to aquatic life with long lasting effects.

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.
Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.