<u>CERTIFICATE OF ANALYSIS</u> <u>ORGANIC BERGAMOT OIL FCF</u>

Batch No:	4445611
Best Before :	September 2024

Appearance: Odour: A pale yellow liquid. Fresh, citrus fruit.

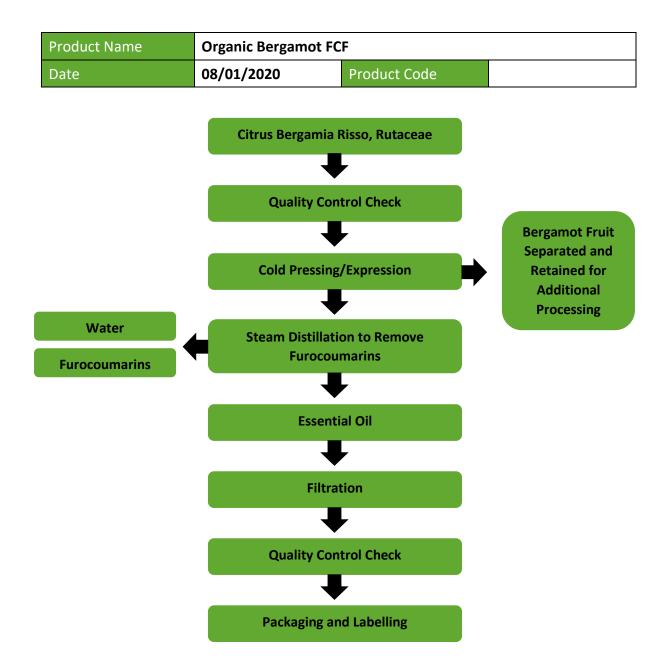
TEST	SPECIFICATION	ANALYSIS
Specific Gravity @ 20°C	0.863 – 0.873	0.867
Refractive Index @ 20°C	1.458 -1.468	1.463
Optical Rotation @ 20°C	+20.00 to +40.00	+31.1
Peroxides (mmol/l)	< 20.0	12.0

Product Name Organic Bergamot Oil FCF (Bergaptene Free)					e)	
INCI Name		Citrus Bergamia	Citrus Bergamia Oil			
Date	01/08/2019	Product Code		Revision	2	
				Cosm	otic Allorgons	
Material			Cas Number	Cosmetic Allergens Inclusion (%)		
ALPHA-ISOM	ETHYLIONONE		127-51-5		-	
AMYL CINNA	MAL		122-40-7	-		
AMYL CINNA	MYL ALCOHOL		101-85-9		-	
ANISE ALCOF	IOL		105-13-5		-	
BENZYL ALCO	HOL		100-51-6		-	
BENZYL BENZ	ZOATE		120-51-4		-	
BENZYL CINN	IAMATE		103-41-3		-	
BENZYL SALIO	CYLATE		118-58-1	-		
BUTYLPHENY	'LMETHYLPROPIO	NAL	80-54-6	-		
CINNAMAL			104-55-2	-		
CINNAMYL A	LCOHOL		104-54-1		-	
CITRAL			5392-40-5		≤ 1.0	
CITRONELLO	L		106-22-9		≤ 0.03	
COUMARIN			91-64-5		-	
EUGENOL			97-53-0	-		
EVERNIA FUF	RFURACEA EXTRA	СТ	90028-67-4	-		
EVERNIA PRU	JNASTRI EXTRACT		90028-68-5		-	
FARNESOL			4602-84-0		-	
GERANIOL			106-24-1		-	
HEXYL CINNAMAL			101-86-0	-		
HYDROXYCITRONELLAL		107-75-5		-		
HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE		E 31906-04-4		-		
ISO EUGENOL			97-54-1	-		
LIMONENE			5989-27-5	≤ 47.0		
LINALOOL			78-70-6	≤ 15.0		
METHYL 2-0	CTYNOATE		111-12-6		-	

Date

1st Aug 2019

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.



GMO Statement

PRODUCT NAME: Bergamot Organic

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

06/03/2019

Product Name	Organic Bergamot Oil FCF (Bergaptene Free)		
INCI Name	Citrus Bergamia Peel Oil Expressed		
Product Code	OCBERG		
Revision No	1	Date	11/02/2021

Restricted Component	CAS	% Level in Product	IFRA Standard
LIMONENE	5989-27-5	≤47.0	Specification
LINALOOL	78-70-6	≤15.0	Specification
CITRAL	5392-40-5	≤	Restriction
CITRONELLOL	106-22-9	≤	Restriction
CITRONELLAL	106-23-0	≤	Restriction
BERGAPTEN	-	≤	Restriction

We certify that the above compound is in compliance with the Standards of the International Fragrance Association (IFRA 49TH Amendment published June 25); provided it is used in the following class(es) at a maximum concentration level of the above.

Flavour use consideration - Due to the possible ingestion of small amounts of fragrance ingredients from their use in products in Categories 1 and 6, materials must not only comply with IFRA Standards but must also be recognized as safe as a flavouring ingredient as defined by the IOFI Code of Practice (www.iofi.org). For more details see chapter 1 of the Guidance for the use of IFRA Standards.

The Standard is set due to the phototoxic effects of Citrus oils and other furocoumarins containing essential oils. For more detailed information on the application of this Standard, please refer to the note on phototoxic ingredients in chapter 1 of the Guidance for the use of IFRA Standards.

Where the Bergapten (5-Methoxypsoralen, (5-MOP)) content of all relevant oils present in a compound has been determined, it is recommended that for applications on areas of skin exposed to UV-light, the total level of Bergapten in the consumer products should not exceed 0.0015% (15 ppm). This upper concentration level only applies to applications on skin exposed to UV-light, excluding rinse-off products and incidental skin contact products as detailed in the Guidance for the use of IFRA Standards.

Where the level of Bergapten has not been determined by appropriate methods, the limits specified in the guidelines on individual oils should apply. In those cases, where such oils are used in combination with other furocoumarin-containing phototoxic fragrance ingredients (extracts), the additive effect has to be taken into consideration and the concentration levels have to be reduced accordingly.

IFRA class(es) [see annex for details]	Max level of use (%)
Category 1	11.0
Category 2	3.20
Category 3	10.00
Category 4	60.00
Category 5A	15.00
Category 5B	15.00
Category 5C	15.00
Category 5D	5.10
Category 6	35.00
Category 7A	20.00
Category 7B	20.00
Category 8	5.10
Category 9	Not restricted
Category 10A	Not restricted
Category 10B	Not restricted
Category 11A	5.10
Category 11B	5.10
Category 12	Not restricted

For other kinds of application or use at higher concentration levels, a new evaluation may be needed.

The IFRA Standards regarding use restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

Evaluation of individual Fragrance ingredients is made according to the safety standards contained in the relevant section of the IFRA Code of Practice.

This certificate serves only as a guide to the maximum level of use. It is the ultimate responsibility of the customer to ensure safe formulating principles are utilised and the safety of the final product (containing this fragrance), by further testing if need be.

Note 1: It is recommended that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings in the countries of planned distribution.

Note 2: Trials must be performed to satisfy suitability for specified application.

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ANNEX: Definition of IFRA Classes

Finished product types	IFRA Category	Flavour Use	Phototoxicity
Lip products of all types (solid and liquid lipsticks, balms, clear and coloured, etc.) Children's Toys	1	Yes	Applicable (Leave-on Products)
Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-up, under-arm, deo-cologne, etc.). Body sprays (including mist).	2	No	Applicable (Leave- on Products)
Eye products of all types (eye-shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturiser. Face make-up and foundation. Make-up remover for face and eyes. Nose pore strips. Wipes refreshing tissues for face, neck, hands, body. Body and face paint (for children and adults). Facial masks for face and around the eyes.	3	No	Applicable (Leave- on Products)
Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau De Toilette, Parfum, Cologne, Solid Perfume, Fragrancing Cream, Aftershaves of all types etc.) Fragranced Bracelets. Ingredients of perfume kits and fragrance mixtures for cosmetic kits. Scent pads, foil packs. Scent strips for hydroalcoholic products.	4	Νο	Applicable (Leave- on Products)
Body Creams, oils, lotions of all types. Foot care products (creams and powders). Insect repellent (intended to be applied to skin). All powders and talc (excluding baby powders and talc).	5A	No	Applicable (Leave- on Products)
Facial toner. Facial Moisturisers and creams.	5B	No	Applicable (Leave- on Products)
(women's facial creams) Hand cream. Nail care products including cuticle creams, etc. Hand sanitisers.	5C	No	Applicable (Leave- on Products)
Baby cream/lotion, baby oil, baby powders and talc.	5D	No	Applicable (Leave- on Products)
Toothpaste. Mouthwash, including breath sprays. Toothpowder, strips, mouthwash tablets.	6	Yes	Applicable (Leave- on Products)
Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse off hair dyes	7A	No	Applicable (Leave- on Products)
Hair sprays of all types (pumps, aerosol sprays, etc). Hair styling aids non-spray (mousse, gels, leave-on conditioners). Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes. Shampoo – Dy (waterless shampoo). Hair deodoriser.	7B	No	Applicable (Leave- on Products)
Intimate wipes. Tampons. Baby Wipes. Toilet paper (wet).	8	No	Applicable (Leave- on Products)
Bar soap. Shampoo of all types. Cleanser for face (rinse-off). Conditioner (rinse-off) Liquid soap. Body washes and shower gels of all types. Baby	9	No	Applicable (Rinse- off Products)

	1	1	1
wash, bath, shampoo. Bath gel foams, mousses, salts, oils, and other products added to bath water. Foot care products (feet are placed in bath for soaking). Shaving creams of all types (stick, gel, foams, etc.). All depilatories (including facial) and waxes for mechanical hair removal. Shampoo for pets.			
Hand wash laundry detergent (including concentrates). Laundry pre- treatment of all types (e.g. paste, sprays, sticks). Hand dishwashing detergent (including concentrates). Hard surface cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.). Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates. Dry cleaning kits. Toilet seat wipes. Fabric softeners of all types including fabric softener sheets. Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes spray and wipe, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treatment with fragrances after wash, deodorisers for textiles or fabrics). Floor wax. Fragranced oil for lamp ring, reed diffusers, pot-purri, liquid refills for air fresheners (non-cartridge systems), etc. Ironing water (odourised distilled water).	10A	No	Applicable (Rinse- off Products)
Animal sprays – sprays applied to animals of all types. Air fresheners sprays, manual, including aerosol and pump. Aerosol spray insecticides.	10B	No	Applicable (Rinse- off Products)
Feminine hygiene conventional pads, liners, interlabial pads. Diapers (baby and adult). Adult incontinence pant, pad. Toilet paper (dry).	11A	No	Not Apllicable (leave-on products without UV exposure)
Tights with moisturisers. Scented cocks, gloves. Facial tissues (dry tissues). Napkins. Paper Towels. Wheat bags. Facial masks (paper/protective) e.g. surgical masks used as medical device. Fertilisers, solid (pellet or powder).	11B	No	Applicable (Leave- on Products)
Candles of all types (including encased). Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods). Automated air fresheners and Fragrancing of all types (concentrated aerosol with metred doses (range 0.05 – 0.5 ml/spray) plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals. Air delivery systems. Cat litter. Cell phone cases. Deodorisers/maskers not intended for skin contact (e.g. fabric drying machine deodorisers and carpet powders). Fuels. Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays. Joss sticks or incense sticks. Dishwasher detergent and deodorisers – for machine wash. Olfactive board games. Paints. Plastic articles (excluding toys). Scratch and sniff. Scent pack. Scent delivery system (using dry air technology). Show polishes. Rim blocks (Toile).	12	No	Not Apllicable (Non-skin contact products)

The table was prepared with the intention to cover the vast majority of the products; however, it may not cover some specific applications. In this case other classes may be attributed based on a specific risk assessment.

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

1.1	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, Rutaceae</i> .				
INCI	Name		Citrus Bergamia	a Peel Oil Expresse	d	
Syno	nyms & Trade Nam	ies	-			
CAS-I	No	89957-91-5	EC No.	616-915-9	EINECS No.	616-915-9
1.2	Relative identifi	ed uses of the sul	ostance or mixt	ure and uses ad	vised against	
		-lavours, Fragrance d industrial hygiene		ng agent in alco	hol. Use in accor	dance with good
1.3	Details of the su	pplier of the safe	ty data sheet			
	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate Fordingbridge Hampshire SP6 1PA					
1.4	Emergency Tel. No. + 44 (0) 1425 655555 during office hours					

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:				
- Flam. Liq. 3 - H226				
Health hazards:				
- Asp. Tox. 1- H304				
- Skin Irrit. 2 - H315				
- Skin Sens. 1B - 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				
GHS02 GHS08 GHS07 GHS09				

Signal Word	Danger.				
Contains	d-Limonene, beta-Pinene, Y-terpinene				
Hazard Statements					
H226 Flammable liquid and vapour.					
H304 May be fatal if swallowed and en	ters airways.				
H317 May cause an allergic skin reaction	on.				
H319 Causes serious eye irritation.					
H410 Very toxic to aquatic life with lon	g lasting effects.				
Precautionary Statements					
P210 Keep away from heat/sparks/ope					
	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.					
	ely call a POISON CENTER or doctor/physician.				
P331 Do NOT induce vomiting.	Remove /Take off immediately all contaminated clathing. Directly of				
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.					
•	dioxide, Dry powder or Foam to extinguish.				
P501 Dispose of contents/container according to the local regulations. Supplementary Precautionary Statements					
P264 Wash hands and exposed skin thoroughly after handling.					
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			
≤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	≤30.0% Linalyl Acetate		
CAS: 115-95-7 EC: 204-116-4			

Classification (EC 1272/2008)	
- Skin Irrit. 2 - H315	
- Eye Irrit. 2 - H319	
≤15.0% Linalool	
CAS: 78-70-6 EC: 201-134-4	
Classification (EC 1272/2008)	
Skin Irrit. 2 - H315	
Skin Sens. 1B - H317	
Eye Irrit. 2 - H319	
≤7.0% beta-Pinene	
CAS: 127-91-3 EC: 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	
≤7.0% Y-terpinene	
CAS: 99-85-4 EC: 202-794-6	
Classification (EC 1272/2008)	
- Flam. Liq. 3 – H226	
- Asp Tox. 1 – H304	
≤1.0% Myrcene (7-methyl-3-methyleneocta-1,6-diene)	
CAS: 123-35-3 EC: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% Sabinene	
CAS: 3387-41-5 EC: 222-212-4	
Classification (EC 1272/2008)	
- Flam. Liq. 3 - H226	
- Asp. Tox. 1 - H304	
≤1.0% Alpha-pinene	
CAS: 80-56-8 EC: 201-291-9	
Classification (EC 1272/2008)	
- Flam. Liq. 3 - H226	
- Acute Tox. 4 H302	
- Asp. Tox. 1 - H304	
 Asp. Tox. 1 - H304 Skin Irrit. 2 - H315 	
- Asp. Tox. 1 - H304	

 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 discom			
	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 impo	ortant symptoms and effects, both acute and delayed		
Symptoms:			
- Inh	alation: Can cause slight headache		
- Contact: can cause bloodshot eyes – can cause slight skin rash.			
Acute and o	Acute and delayed effects:		
- no post disorder effects are reported.			
4.3 Indication of any immediate medical attention and special treatment needed			
Treat symp	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).

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
Prote	ective Equipment

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	No additional data available.	
temperature (°C)		
9.2 Other information	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).

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 (CO2).

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

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.

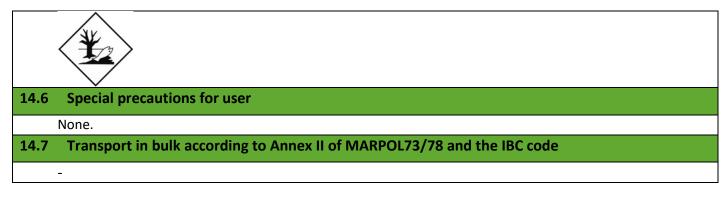
13. DISPOSAL CONSIDERATIONS

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 nai	me
	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 grou	ıp — III
	IMDG Packing group – III	
	ICAO Packing group – III	
14.5	Environmental hazards	
	Environmentally Hazardous	s Substance/Marine Pollutant



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
Rev No/Repl, SDS Generated	5

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.

Product Name	Organic Bergamot FCF					
Date 08/01/2020	Product Code		Rev	6		
Description Citrus Bergamia Peel Oil Expressed is an essential oil expressed from the epicarps of						
	the Bergamot, citrus ber	the Bergamot, citrus bergamia risso, Rutaceae				
Appearance	Liquid, Yellow					
Odour	Characteristic					
Origin	Italy					
INCI Name	Citrus Bergamia Peel Oil					
CAS Number	89957-91-5	EC Number	289-61	12-9		

TEST SPECIFICATION

Analytical Test	Specification Range
Specific Gravity @ 20°C (g/ml)	0.863 - 0.873
Refractive Index @ 20°C	1.458 - 1.468
Optical Rotation (°)	+20.0 to + 40.0
Peroxides (mmol/l)	≤ 20.0

STORAGE

Store in a cool, dry, well-ventilated place. Keep away from heat and sunlight.

STABILITY

If stored for twenty-four months, check quality of product before use.

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Please note as this is a wholly natural material some parameters, in particular, appearance, colour and odour, may change due to natural variation and climate change. This in no way affects the quality and efficacy of the product.

Vegetarian & Vegan Suitability Statement

PRODUCT NAME: Bergamot Organic

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

28/06/19