CERTIFICATE OF ANALYSIS ORGANIC CLOVE BUD OIL

Batch Number: 4443313

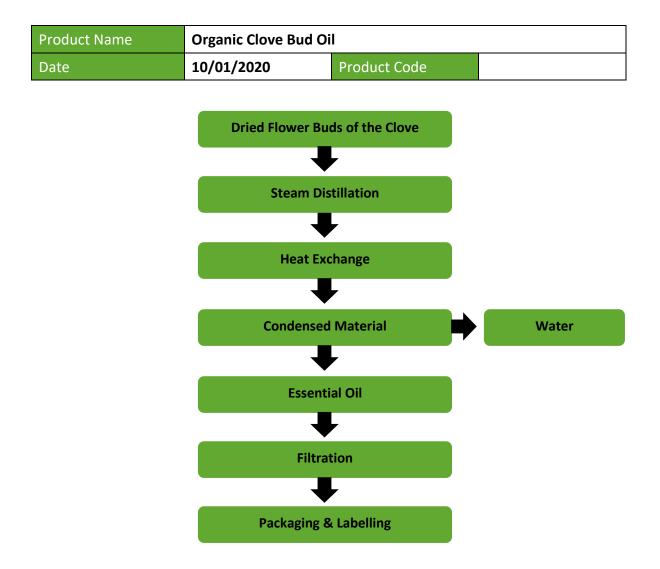
Date of Packing:	July 2021
Date of Expiry:	August 2024

Appearance: Odour/Flavour: Clear liquid, yellow to light brown Characteristic

TEST	SPECIFICATION	ANALYSIS
Specific Gravity @ 20°C	1.027 – 1.065	1.061
Refractive Index @ 20°C	1.527 – 1.538	1.535
Optical Rotation @ 20°C	-1.5° to 0.0°	-0.5°

This COA is produced electronically therefore no signature is required.

Product N	ame	Organic Clove Bud	Oil	
INCI Name	9	Eugenia Caryophy	llus Bud Oil	
Date	28/07/2021	Product Code		Revision 3
		Material	Cas Number	Cosmetic Allergens Inclusion (%)
	ALPHA-I	SOMETHYLIONONE	127-51-5	-
		AMYL CINNAMAL	122-40-7	-
	AMYL CI	NNAMYL ALCOHOL	101-85-9	-
		ANISE ALCOHOL	105-13-5	-
		BENZYL ALCOHOL	100-51-6	≤ 0.01
		BENZYL BENZOATE	120-51-4	≤ 0.01
		ENZYL CINNAMATE	103-41-3	-
		BENZYL SALICYLATE	118-58-1	≤ 0.10
	BUTYLPHENYL	METHYLPROPIONAL	80-54-6	-
		CINNAMAL	104-55-2	-
	Cl	NNAMYL ALCOHOL	104-54-1	-
CITRAL		5392-40-5	-	
		CITRONELLOL	106-22-9	≤ 0.01
		COUMARIN	91-64-5	-
		EUGENOL	97-53-0	≤ 87.00
		RFURACEA EXTRACT	90028-67-4	-
	EVERNIA PI	RUNASTRI EXTRACT	90028-68-5	-
		FARNESOL	4602-84-0	-
		GERANIOL	106-24-1	≤ 0.10
		HEXYL CINNAMAL	101-86-0	-
		ROXYCITRONELLAL	107-75-5	-
ł	HYDROXYISOHEX	YL 3-CYCLOHEXENE	31906-04-4	-
		ISO EUGENOL	97-54-1	≤ 0.30
		LIMONENE	5989-27-5	≤ 0.01
		LINALOOL	78-70-6	≤ 0.10
	MET	THYL 2-OCTYNOATE	111-12-6	-



STATEMENT

Organic Clove Bud Oil

The country of origin is Sri Lanka.

The tariff code which we have on file for this product is 3301291100, however we must advise all customers to check tariff codes against the relevant government's website.

To the best of our knowledge, and confirmed by our supplier, this product is not derived from genetically modified organisms, nor have any been added during the production process.

Organic Clove Bud Oil contains Methyl Eugenol and Methyl Salicylate which are both considered to be CMR substances.

This material has not been derived from animals, nor have any animal derived substances been added at any stage. This product has not been tested on animals. It is suitable for both vegan and vegetarian use.

DATE: 29/07/2021

Product Name	Organic Clove Bud Oil		
INCI Name	Eugenia Caryophyllus Bud Oil		
Product Code			
Revision No	1	Date	28/07/2021

Restricted Component	CAS	% Level in Product	IFRA Standard
LIMONENE	5989-27-5	≤0.01	Specification
LINALOOL	78-70-6	≤0.10	Specification
BENZALDEHYDE	100-52-7	≤0.10	Restriction
BENZYL ALCOHOL	100-51-6	≤0.01	Restriction
BENZYL BENZOATE	120-51-4	≤0.01	Restriction
BENZYL SALICYLATE	118-58-1	≤0.10	Restriction
CITRONELLOL	106-22-9	≤0.01	Restriction
EUGENOL	97-53-0	≤87.0	Restriction
GERANIOL	106-24-1	≤0.10	Restriction
FURFURAL	98-01-1	≤0.10	Restriction
TRANS-2-HEXENAL	6728-26-3	≤0.01	Restriction
ISOEUGENOL	97-57-1	≤0.30	Restriction
METHYL EUGENOL FROM NATURALS	92-15-2	≤0.20	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.

According to Cosmetic Regulation (EC) No 1223/2009 Annex III methyl eugenol is restricted to a maximum concentration in a ready to use preparation as follows:

- Fine fragrance 0.01%
- Eau de toilette 0.004%
- Fragrance cream 0.002%
- Rinse-off products 0.001%
- Other leave-on products and oral products 0.0002%

IFRA class(es) [see annex for details]	Max level of use (%)
Category 1	0.29
Category 2	0.16
Category 3	0.15
Category 4	1.00
Category 5A	0.74
Category 5B	0.29
Category 5C	0.29
Category 5D	0.10
Category 6	0.70
Category 7A	0.29
Category 7B	0.29
Category 8	0.10
Category 9	0.44
Category 10A	0.44
Category 10B	1.00
Category 11A	0.10
Category 11B	0.10
Category 12	48.50

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		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	No	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)

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			Applicable (Dince
types including fabric softener sheets. Household cleaning products,	10A	No	Applicable (Rinse-
other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes spray and wipe, leather cleaning wipes, stain			off Products)
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).			
Animal sprays – sprays applied to animals of all types. Air fresheners	400	N -	Applicable (Rinse-
sprays, manual, including aerosol and pump. Aerosol spray insecticides.	10B	No	off Products)
			Not Apllicable
Feminine hygiene conventional pads, liners, interlabial pads. Diapers			(leave-on products
(baby and adult). Adult incontinence pant, pad. Toilet paper (dry).	11A	No	without UV
Tickto with posisturious Constant code stars Fasial tickurs (dw.			exposure)
Tights with moisturisers. Scented cocks, gloves. Facial tissues (dry tissues). Napkins. Paper Towels. Wheat bags. Facial masks			Applicable (Leave-
(paper/protective) e.g. surgical masks used as medical device.	11B	No	on Products)
Fertilisers, solid (pellet or powder).			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,			
			Not Apllicable
	12	No	
			`
			[
board games. Paints. Plastic articles (excluding toys). Scratch and sniff.			
Scent pack. Scent delivery system (using dry air technology). Show			
polishes. Rim blocks (Toile).			
metred doses (range 0.05 – 0.5 ml/spray) plug-ins, closed systems, solid	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	Product Identifi	er				
Product Name			Organic Clove Bud Oil.			
Biological Definition		Eugenia Caryop	hyllus Bud Oil is a	n essential oil steam	n-distilled from the	
		dried flower buds of the Clove, Syzygium aromaticum, syn. Eugenia				
			caryophyllus, M	yrtaceae.		
INCI	Name		Eugenia Caroyp	hyllus Bud Oil.		
Syno	onyms & Trade Nam	nes	-			
CAS-No 84961-50-2			EC No.	284-638-7	EINECS No.	284-638-7
1.2	1.2 Relative identified uses of the substance or mixture and uses advised against					
	Suitable for use in	n cosmetics, flavour	ings and professi	onal use only.		
1.3	1.3 Details of the supplier of the safety data sheet					
	Madar Corporation Limited, 19 - 20 Sandleheath Indistrial Estate, Fordingbridge, SP6 1PA					
1.4	Emergency Tel.	No.	+ 44 (0) 1425	5 655555		

02. HAZARD IDENTIFICATION

2.1	.1 Classification of the substance or mixture		
	The full text for all hazard state	ements displayed in section 16.	
Class	ification (EC 1272/2008)		
	Physical hazards:	Not classified.	
	Health hazards:	Eye Irrit. 2 - H319, Skin Sens. 1 - H317, Asp. Tox. 1 - H304	
	Environmental hazards:	Not classified.	
2.2	Label Elements		
Labe	I in accordance with (EC) No 127	/2/2008	
	GHS07 GHS08		
Signa	al Word	Danger.	
Cont	ains	Eugenol, Beta Caryophyllene.	
Haza	ard Statements		
	H304 May be fatal if swallowed	and enters airways.	
	H317 May cause an allergic ski	n reaction.	
	H319 Causes serious eye irritat	ion.	
Prec	autionary Statements		
		protective clothing/ eye protection/ face protection.	
		mediately call a POISON CENTER/ doctor.	
	P305+P351+P338 IF IN EYES: Ri	inse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Contin		
		eath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK 425 655555 Email: technical@madarcorporation.co.uk	

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P331 Do NOT induce vomiting.		
P262 Do not get in eyes, on skin, or on clothing.		
Supplementary Precautionary Statements		
P261 Avoid breathing vapour/ spray.		
P264 Wash contaminated skin thorough	ly after handling.	
P272 Contaminated work clothing shoul	d not be allowed out of the workplace.	
P302+P352 IF ON SKIN: Wash with plent	y of water.	
P321 Specific treatment (see medical ad	vice on this label).	
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.		
P337+P313 If eye irritation persists: Get medical advice/ attention.		
P362+P364 Take off contaminated clothing and wash it before reuse.		
P405 Store locked up.		
P501 Dispose of contents/ container in a	accordance with national regulations.	
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
	70 - 90% Eugenol
	CAS: 97-53-0
	Classification (EC 1272/2008)
	- Skin Sens. 1 - H317
	- Eye Irrit. 2 - H319
	≤ 25% Beta Caryophyllene
	CAS: 87-44-5
	Classification (EC 1272/2008)
	- Asp. Tox. 1 - H304
	- Skin Sens. 1 - H317
	- Aquatic Chronic 4 - H413
	≤ 12% Eugenyl Acetate
CAS: 93-28-7	
	Classification (EC 1272/2008)
	- Acute Tox. 4 -H302
	≤ 0.2% Methyl Eugenol
	CAS: 93-15-2
	Classification (EC 1272/2008)
	- Acute Tox. 4 - H302
	- Muta. 2 - H341
	- Carc. 2 - H351

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. If	
	medical attention promptly.
Ingestion	Move affected person to fresh air at once. Do not induce vomiting. Rinse mouth thoroughly with
	water. Get medical attention immediately.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical
	attention if irritation persists after washing.
Eye Contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water.
Continue to rinse for at least 15 minutes and get medical attention.	
4.2 Most important symptoms and effects, both acute and delayed	
No additional data available.	

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media Suitable extinguishing media: - Extinguish with foam - Carbon dioxide

- Dry powder
- Water fog.

Unsuitable extinguishing media:

For safety reasons do not use full water jet.

5.2 Special hazards arising from the product

Closed containers may build up pressure at elevated temperatures. In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO_2), smoke, soot.

5.3 Advice for firefighters

Avoid breathing fire gases or vapours. Use special protective clothing.

06. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	
	Avoid contact with skin and eyes. Avoid inhalation of vapours. For personal protection, see Section 8. Provide adequate ventilation.	
6.2	Environmental Precautions	
	Avoid discharge into drains or watercourses or onto the ground.	
6.3	Methods and material for containment and cleaning up.	
	Cover with inert, inorganic, non-combustible material (e.g dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with local authority guidelines. Use non sparking tools. Ventilate area and wash spill site after pickup is complete.	

6.4 Reference to other sections

For waste disposal, see Section 13.

07. HANDLING AND STORAGE

7.1	Precautions for safe handling	
	Requirements relating to storage premises apply to all facilities where the substance is handled. Individuals with a history of skin sensitization should not, under any circumstance, handle this substance. Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin and eyes.	
7.2	2 Conditions for safe storage, including any incompatibilities	
	Keep air contact to a minimum. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.	
7.3	7.3 Specific end use(s)	
	No additional data available.	

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameter	.1 Control parameters	
No additional data av	No additional data available.	
8.2 Exposure controls	8.2 Exposure controls	
Protective Equipment		
Process Conditions	Provide eyewash station.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas.	
Respiratory Equipment	Respiratory protection may be required, if ventilation is poor.	
Hand Protection	Wear suitable protective gloves.	
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	General protective and hygienic measures: Use personal protective equipment depending on concentration and amount of hazardous substance. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.	
Skin Protection	Avoid skin contact.	
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; Pale yellow to light brown.	
Colour	Pale yellow to light brown.	
Odour	Characteristic.	
Relative Density	~ 1.046 @ 20°C	
Flash Point (°C)	> 93	
Refractive Index	~ 1.533 @ 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.	
Auto-ignition	No additional data available.	
temperature (°C)		
9.2 Other information		
No additional data available.		

10. STABILITY AND REACTIVITY

10.1	D.1 Reactivity	
	Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended	
	USE.	

10.2	Chemical stability	
	Stable under normal temperature conditions and recommended use.	
10.3	Possible hazardous reactions	
	None known.	
10.4	Conditions to Avoid	
	Keep away from heat, sparks and open flame.	
10.5	incompatible materials	
	Avoid: Strong acids. Strong alkalis. Strong oxidising agents. Strong reducing agents.	
10.6	Hazardous Decomposition Products	
	The thermal decomposition may release/form: carbon monoxide (CO), carbon dioxide (CO ₂) and unidentified organic compounds.	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects		
Acute Toxicity	Not classified.	
Skin corrosion / irritation	Not classified.	

Serious eye damage / irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified. However, product contains a substance suspected of
	causing genetic defects.
Carcinogenicity	Not classified. However, product contains a substance suspected of
	causing cancer.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
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	
	No additional data available.	
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	
	Not applicable.	
12.6	Other adverse effects	
	No additional data available.	

13. DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	
	Do not allow entry into drains or waterways. Disposal must be made according to official regulations. Must not be disposed together with household waste.	

14. TRANSPORT INFORMATION

14.1	UN number	
	UN No. Road	Not regulated for transport.
	UN No. SEA	Not regulated for transport.
	UN No. AIR	Not regulated for transport.
14.2	UN proper shipping name	

Not applicable - The product is not covered by international regulations on the transport of dangerous goods. (IMDG, IATA, ADR/RID).

14.3	Transport hazard class(es)			
	Not applicable.			
14.4	Packing group			
	Not applicable.			
14.5	Environmental hazards			
	Not an environmentally hazardous substance/marine pollutant for transport.			
14.6	5 Special precautions for user			
	See sections 6 – 8.			
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 Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). <u>Guidance Notes</u>

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	H302 Harmful if swallowed.		
Statements in Full	H304 May be fatal if swallowed and enters airways.		
	H317 May cause an allergic skin reaction.		
	H319 Causes serious eye irritation.		
	H341 Suspected of causing genetic defects.		
	H351 Suspected of causing cancer.		
	H413 May cause long lasting harmful effects to aquatic life.		
Revision Date	10/01/2020		
Rev No	2		

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Product Name	Organic Clove	Organic Clove Bud Oil				
Date 10/01/2020	Produc	t Code		Rev	2	
Description Eugenia Caryophyllus Bud Oil is an essential oil steam-distilled from the dried flower						
		buds of the Clove, Syzygium aromaticum, syn. Eugenia caryophyllus, Myrtaceae.				
Appearance	Clear Liquid, Pa	Clear Liquid, Pale Yellow – Light Brown				
Odour	Characteristic	Characteristic				
Origin	Sri Lanka	Sri Lanka				
INCI Name Eugenia Caryophyllus Bu		phyllus Bud Oil				
CAS Number	84961-50-2	EC	Number 2	284-638	3-7	

TEST SPECIFICATION

Analytical Test	Specification Range
Specific Gravity @ 20°C (g/ml)	1.027 – 1.065
Refractive Index @ 20°C	1.527 – 1.538
Optical Rotation @ 20°C (°)	-1.5 - 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.