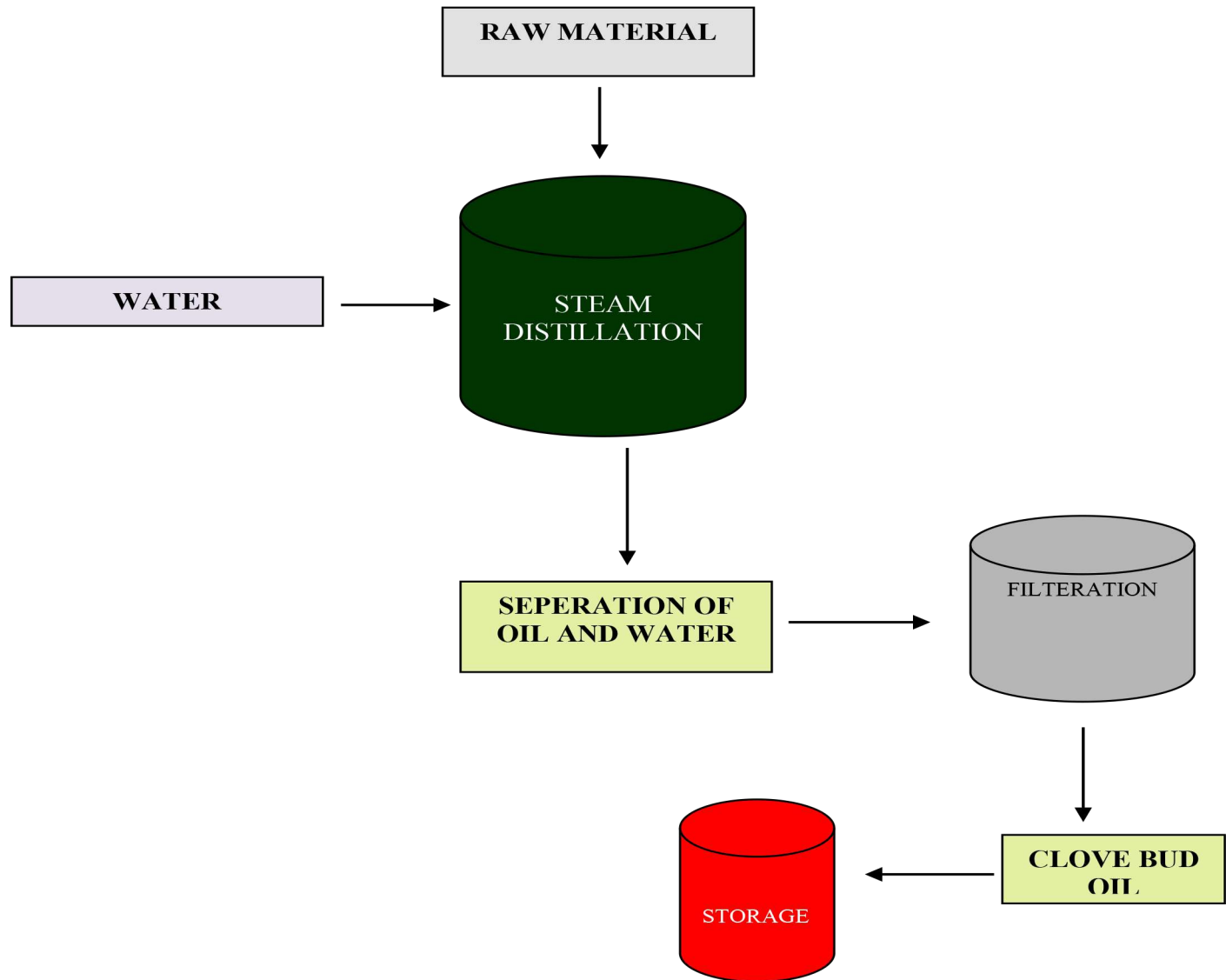


# Certificate of Analysis

PRODUCT DETAILS					
Product Name	CLOVE BUD OIL ORGANIC				
Product Code	OCCLOVBUD				
INCI Name	Eugenia Caryophykkus Bud Oil				
Batch/Lot Number	4374101				
Best Before Date	October 2022				
Manufacturing Process	Eugenia Caryophykkus Bud Oil is an essential oil steamed distilled from the dired flower buds of the Clove, Syz aromaticum syn, Eugenio caryophyllus, Myrtaceae.				
Identification	CAS No: 84961-50-2	EINECS No: 284-638-7			
	Alternative Cas: 8000-34-8	FEMA No: 2323			
PHYSICAL AND CHEMICAL CHARACTERISTIC					
	SPECIFICATION RANGE	RESULTS			
Appearance	Liquid	Conforms			
Colour	Yellow to light brown	Conforms			
Odour	Characteristic, spicy	Conforms			
Relative Density @ 20°c	1.027 - 1.075	1.056			
Refractive Index @ 20°c	1.520 - 1.545	1.535			
Flash Point	>93°c	Conforms			
Optical Rotation °	-5 to 5	-0.5			
MAIN CONSTITUENTS					
CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS
Eugenol 70 - 90%	83.66%	Beta Caryophyllene 5 - 25%	6.20%	Eugenyl Acetate <25%	8.50%
Methyl Eugenol < 1%	0.03%				
STORAGE AND SHELF LIFE					
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.				
Shelf Life	When stored for 24 months, quality should be checked before use.				
<b>DISCLAIMER:</b> 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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where we make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.					

## PROCESSING – CLOVE BUD OIL ORGANIC FLOW CHART





## SAFETY DATA SHEET CLOVE BUD OIL ORGANIC

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name	CLOVE BUD OIL ORGANIC
Product number	CLOBUD1001
CAS number	84961-50-2
Alternative Cas Number	8000-34-8
EC number	284-638-7
FEMA No:	2323

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Industrial, only for professional use
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	Madar Corporation 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk
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#### 1.4. Emergency telephone number

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (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

Human health	Causes skin and eye irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.
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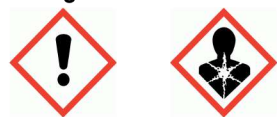
#### 2.2. Label elements

EC number	284-638-7
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# CLOVE BUD OIL ORGANIC



## Pictogram



## Signal word

Danger

## Hazard statements

H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

## Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305+P351+P338 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.  
P262 Do not get in eyes, on skin, or on clothing.

## Contains

Eugenol, Beta Caryophyllene

## Supplementary precautionary statements

P261 Avoid breathing vapour/ spray.  
P264 Wash contaminated skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P321 Specific treatment (see medical advice 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 accordance with national regulations.

## 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Eugenol</b>	<b>70-90%</b>
CAS number: 97-53-0	EC number: 202-589-1
<b>Classification</b> Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
<b>Beta Caryophyllene</b>	<b>5-25%</b>
CAS number: 87-44-5	EC number: 201-746-1
<b>Classification</b> Asp. Tox. 1 - H304	

<b>Eugenyl Acetate</b>		<b>1 - 10%</b>
CAS number: 93-28-7	EC number: 202-235-6	
<b>Classification</b> Acute Tox. 4 - H302		

<b>Methyl Eugenol (4-Allylveratrole; 1,2-Dimethoxy-4-(2-propenyl)-benzene.)</b>		<b>&lt;1%</b>
CAS number: 93-15-2	EC number: 202-223-0	
<b>Classification</b> Acute Tox. 4 - H302 Muta. 2 - H341 Carc. 2 - H351		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in doubt, get medical attention promptly.
<b>Ingestion</b>	Move affected person to fresh air at once. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	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

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

<b>Notes for the doctor</b>	Treat symptomatically.
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#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	For safety reasons do not use full water jet.

##### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Closed containers may build up pressure at elevated temperatures. In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), smoke, soot.
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##### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours.
<b>Special protective equipment for firefighters</b>	Use special protective clothing.

#### SECTION 6: Accidental release measures

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

**Personal precautions** Avoid contact with skin and eyes. Avoid inhalation of vapours. For personal protection, see Section 8. Provide adequate ventilation.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for 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

**Reference to other sections** For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** 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. Conditions for safe storage, including any incompatibilities

**Storage precautions** 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. Specific end use(s)

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls**

Provide eyewash station

#### 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.

#### Eye/face protection

Approved safety goggles.

#### Hand protection

Chemical resistant gloves (PVC)

#### Other skin and body protection

Wear apron or protective clothing in case of contact.

#### Hygiene measures

Good personal hygiene procedures should be implemented.

#### Respiratory protection

Generally unnecessary in a well ventilated area.  
If ventilation is insufficient, respiratory protection must be worn.



**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

Appearance	Liquid.
Colour	Yellow. to Light brown.
Odour	Characteristic. Spicy
Flash point	> 93°C
Relative density	1.027 - 1.065 @ 20°C

**9.2. Other information**

Refractive index	1.527 - 1.537 @ 20c
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity	No information available.
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**10.2. Chemical stability**

Stability	Stable under normal conditions.
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**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions	None known.
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**10.4. Conditions to avoid**

Conditions to avoid	Keep away from heat, sparks and open flame.
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**10.5. Incompatible materials**

Materials to avoid	Strong acids. Strong alkalis. Strong oxidising agents. Strong reducing agents.
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**10.6. Hazardous decomposition products**

Hazardous decomposition products	During combustion may form carbon monoxide and unidentified organic compounds.
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**SECTION 11: Toxicological information****11.1. Information on toxicological effects****SECTION 12: Ecological Information**

Ecotoxicity	No information available.
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**12.1. Toxicity****12.2. Persistence and degradability****12.3. Bioaccumulative potential****12.4. Mobility in soil****12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Disposal methods	Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.
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**SECTION 14: Transport information**

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

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

No transport warning sign required.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
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) (as amended).

**Guidance** CHIP for everyone HSG228.

**15.2. Chemical safety assessment****SECTION 16: Other information**

**Revision date** 14/02/2017

**Revision** 5

**Supersedes date** 14/02/2017

**SDS number** 4851



**Hazard statements in full**

H302 Harmful if swallowed.  
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.

## Product Specification

### PRODUCT DETAILS

Product Name	CLOVE BUD OIL ORGANIC	
Product Code	OCCLOVBUD	
INCI Name	Eugenia Caryophyllus Bud Oil	
Country of Origin	Various	
Tariff Number	33012911	
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.	
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.	
Kosher Certified	No but can be added to our kosher list	
Halal Certified	We hereby delcare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.	
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.	
Manufacturing Process	Eugenia Caryophyllus Bud Oil is an essential oil steamed distilled from the dried flower buds of the Clove, Syzygium aromaticum syn, Eugenio caryophyllus, Myrtaceae.	
Identification	CAS No: 84961-50-2	EINECS No: 284-638-7
	Alternative Cas: 8000-34-8	FEMA No: 2323

### PHYSICAL AND CHEMICAL CHARACTERISTIC

Appearance	Liquid
Colour	Yellow to light brown
Odour	Characteristic, spicy
Relative Density @ 20°C	1.027 - 1.065
Refractive Index @ 20°C	1.527 - 1.538
Flash Point	>93°C

### FRAGRANCE ALLERGENS

Benzyl Alcohol (100-51-6) <0.1%	Eugenol (97-53-0) 70-90%	Iso Eugenol (97-54-1) <0.3%
Geraniol (106-24-1) <0.1%	Linalool (78-70-6) <0.1%	Benzyl Benzoate (120-51-4) <0.1%
Limonene (5989-27-5) <0.1%		

### FOOD ALLERGENS

NONE PRESENT

### IFRA

Limonene (5989-27-5) <0.1%	Linalool (78-70-6) <0.1%	Benzyl Benzoate (120-51-4) <0.1%
Benzyl Alcohol (100-51-6) <0.1%	Eugenol (97-53-0) 70-90%	Geraniol (106-24-1) <0.1%
Iso Eugenol (97-54-1) <0.3%	Benzaldehyde (100-52-7) <0.1%	Furfural (98-01-1) <0.2%
Methyl Eugenol from naturals (92-15-2) <0.2%		

### STORAGE AND SHELF LIFE

Storage	Store in tightly closed container with minimum headspace in a cool, dark and
Shelf Life	When stored for 24 months, quality should be checked before use.

**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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where Global Essence make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. **It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.**



# Vegan and Vegetarian Statement

## IDENTIFICATION

Product:	Clove Bud Organic
Cas No:	84961-50-2
EINECS No:	284-638-7

## STATEMENT

We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan or vegetarian diet.

It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.

28/01/2019

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.