



## Certificate of Analysis

PRODUCT DETAILS		
Product Name	MORINGA SEED OIL	
Product Code	OVMORI	
Tariff Number	15159060	
Country of Origin	Various	
Batch Number	4364807	
Best Before End	July 2021	
Identification	CAS No: 93165-54-9	EC No:296-941-1
PHYSICAL AND CHEMICAL CHARACTERISTIC		
	SPECIFICATION RANGE	RESULTS
Appearance	Liquid	Conforms
Colour	Pale Yellow to Yellow	Conforms
Odour	Characteristic	Conforms
Relative Density @ 20°C	0.909 - 0.922	0.917
Refractive Index @ 20°C	1.464 - 1.474	1.471
Acid Value (mgKOH/g)	≤1.0	0.12
Saponification Value (mgKOH/g)	185.0 - 197.0	190
Peroxide Value (Meg/kg)	≤5.0 (at time of production analysis)	0.64
Fatty Acid Profile (%)		
C16:0 Palmitic Acid	≤10.5	6.76
C18:0 Stearic Acid	≤12.0	2.8
C18:1 Oleic Acid	65.0 - 85.0	65.8
C18:2 Linoleic Acid	≤22.0	21.78
C20:0 Arachidic Acid	≤2.0	0.24
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

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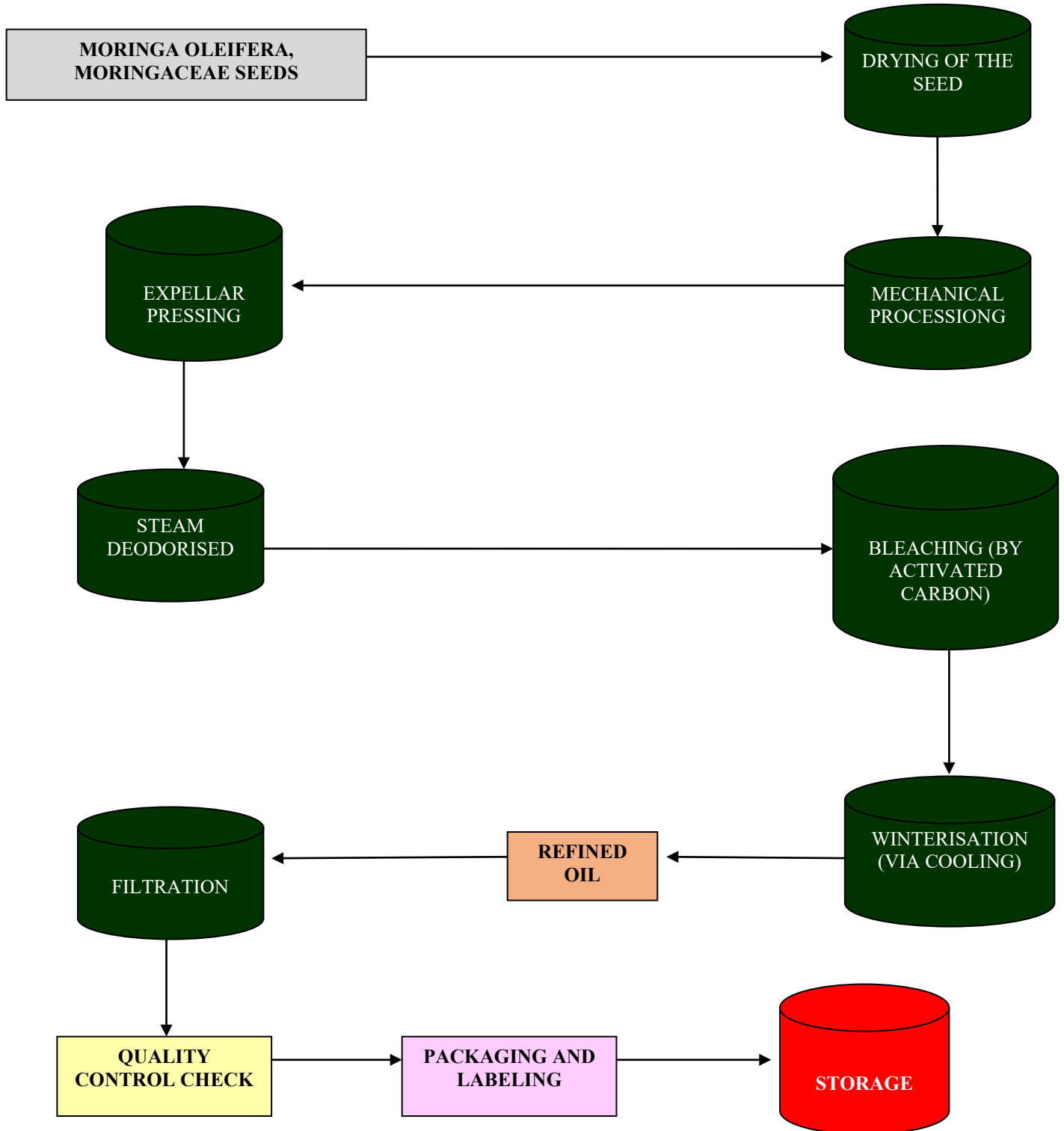


## ALLERGEN STATEMENT

**PRODUCT NAME** MORINGA SEED OIL

Compounds	C.A.S	% Natural	% Synthetic	% Total
Alpha-Hexyl cinnamic aldehyde (HCA)	101-86-0	-	-	-
Amyl cinnamic alcohol	101-85-9	-	-	-
Amyl cinnamic aldehyde (ACA)	122-40-7	-	-	-
Anisyl alcohol	105-13-5	-	-	-
Benzyl salicylate	118-58-1	-	-	-
Benzyl benzoate	120-51-4	-	-	-
Benzyl cinnamate	103-41-3	-	-	-
Benzyl alcohol	100-51-6	-	-	-
Cinnamic alcohol	104-54-1	-	-	-
Cinnamic aldehyde	104-55-2	-	-	-
Citral	5392-40-5	-	-	-
Citronellol	106-22-9	-	-	-
Coumarin (2p-1-benzopyran-2-one	91-64-5	-	-	-
D'limonene	5989-27-5	-	-	-
Eugenol	97-53-0	-	-	-
Farnesol	4602-84-0	-	-	-
Geraniol	106-24-1	-	-	-
Lyral (Hydroxymethylpentyl cyclohexene carbalde)	31906-04-4	-	-	-
Hydroxycitronellal	107-75-5	-	-	-
Isoeugenol	97-54-1	-	-	-
Alpha-Iso-methyl Ionone	127-51-5	-	-	-
Linalool	78-70-6	-	-	-
Methyl heptine carbonate	111-12-6	-	-	-
Oakmoss absolute	9000-50-4	-	-	-
p-tert-Butyl-alpha-methylhydrocinnamic a	80-54-6	-	-	-
Tree moss	68648-41-9	-	-	-
	<b>TOTAL</b>	-	-	-

MORINGA SEED OIL  
FLOW CHART





**SAFETY DATA SHEET  
MORINGA SEED OIL**

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

**1.1. Product identifier**

Product name MORINGA SEED OIL  
Product No. OVMORI  
Synonyms, Trade Names Moringa Oleifera Seed Oil  
CAS-No. 85507-69-3  
EC No. 287-390-8

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

**1.3. Details of the supplier of the safety data sheet**

Supplier MADAR Corproation Limited  
19-20 Sandleheath Industrial Estate  
Fordingbridge  
Hampshire  
SP6 1PA  
  
Tel: +44 1425 655555 (Opening Hours 9am - 5pm)  
  
sales@madarcorporation.co.uk

**1.4. Emergency telephone number**

**SECTION 2: HAZARDS IDENTIFICATION**

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

Classification (EC 1272/2008)  
Physical and Chemical Hazards Not classified.  
Human health Not classified.  
Environment Not classified.  
Classification (67/548/EEC) Not classified.

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

**2.2. Label elements**

EC No. 287-390-8  
Label In Accordance With (EC) No. 1272/2008  
No pictogram required.

**2.3. Other hazards**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Product name MORINGA SEED OIL  
CAS-No. 85507-69-3  
EC No. 287-390-8

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

# MORINGA SEED OIL

## Inhalation

No vapours present at normal temperatures.

## Ingestion

Product is not considered hazardous. Product is edible quality. Seek medical advice in case of any adverse effects.

## Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

## 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 if any discomfort continues.

### **4.2. Most important symptoms and effects, both acute and delayed**

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

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### Extinguishing media

Use as appropriate: CO<sub>2</sub>, dry powder or foam type extinguishers, spraying extinguishing media to base of flames.

#### Unsuitable extinguishing media

Do not use direct water jet on burning material.

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

#### Specific hazards

Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

### **5.3. Advice for firefighters**

#### Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep away from sources of heat, sparks and flames. Cool endangered drums with water.

#### Protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Avoid inhalation and direct contact with skin and eyes. Use individual protective equipment (safety glasses, waterproof boots, suitable protective clothing) in case of major spillages.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground.

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

Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local regulations.

### **6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Apply good manufacturing practise and industrial hygiene practises, ensuring proper ventilation. Observe good personal hygiene and do not eat, drink or smoke whilst handling.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep air contact to a minimum. Keep away from heat sources and protected from light.

### **7.3. Specific end use(s)**

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

# MORINGA SEED OIL

## **8.2. Exposure controls**

Protective equipment



Process conditions

Provide eyewash station.

Engineering measures

Provide adequate ventilation.

Respiratory equipment

In case of inadequate ventilation use suitable respirator.

Hand protection

Chemical resistant gloves (PVC)

Eye protection

Wear approved safety goggles.

Hygiene measures

Good personal hygiene practices are always advisable, especially when working with chemicals / oils.

Personal protection

Avoid inhalation and contact with skin and eyes.

Skin protection

Wear an apron.

Environmental Exposure Controls

Avoid discharging into drainage water. Only eliminate by authorised companies.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Yellow.
Odour	Free from rancid and foreign odours
Relative density	0.912 - 0.922 20c
Flash point (°C)	>300c

### **9.2. Other information**

Refractive Index	1.464 - 1.474
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## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

It presents no significant reactivity hazards, by itself or in contact with water.

### **10.2. Chemical stability**

Stable under normal temperature conditions.

### **10.3. Possibility of hazardous reactions**

### **10.4. Conditions to avoid**

### **10.5. Incompatible materials**

Materials To Avoid

Strong acids. Strong alkalis. Strong oxides.

### **10.6. Hazardous decomposition products**

None (thermal decomposition products are H<sub>2</sub>O and CO<sub>2</sub>)

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk

# MORINGA SEED OIL

Toxicological information

No information available.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not known.

### 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

Dispose of in compliance with all local and national regulations.

## SECTION 14: TRANSPORT INFORMATION

General

Not regulated.

### 14.1. UN number

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

### 14.6. Special precautions for user

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Guidance Notes

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

## SECTION 16: OTHER INFORMATION

SDS No.

20460

Date

23/07/2014

# MORINGA SEED OIL

Risk Phrases In Full

NC

Not classified.

Hazard Statements In Full





## Product Specification

PRODUCT DETAILS	
Product Name	MORINGA SEED OIL
Product Code	OVMORI
Tariff Number	15159060
Country of Origin	Various
INCI Name	Moringa Oleifera, Moringaceae
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. This product does not contain any solvents or additives.
Food Grade Status	No
Kosher Certified	Not Certified
Halal Certified	Suitable
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	Please request Flowchart
Identification	CAS No: 93165-54-9      EC No:296-941-1
PHYSICAL AND CHEMICAL CHARACTERISTIC	
Appearance	Liquid
Colour	Pale Yellow to Yellow
Odour	Characteristic
Relative Density @ 20°C	0.909 - 0.922
Refractive Index @ 20°C	1.464 - 1.474
Flash Point °C	≥300
Solubilities	Insoluble in water. Soluble in common organic solvents.
Acid Value (mgKOH/g)	≤1.0
Saponification Value (mgKOH/g)	185.0 - 197.0
Peroxide Value (Meg/kg)	≤5.0 (at time of production analysis)
Fatty Acid Profile (%)	
C16:0 Palmitic Acid	≤10.5
C18:0 Stearic Acid	≤12.0
C18:1 Oleic Acid	65.0 - 85.0
C18:2 Linoleic Acid	≤22.0
C20:0 Arachidic Acid	≤2.0
FRAGRANCE ALLERGENS	
NONE PRESENT	
FOOD ALLERGENS	
NONE PRESENT	
IFRA	
NONE PRESENT	
STORAGE AND SHELF LIFE	
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.

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# Vegan and Vegetarian Statement

IDENTIFICATION	
Product:	MORINGA SEED OIL
Cas No:	93165-54-9
EINECS No:	296-941-1
STATEMENT	
<p>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.</p> <p>It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.</p> <p>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.</p>	