



**CERTIFICATE OF ANALYSIS**  
**ORGANIC MACADAMIA NUT OIL**

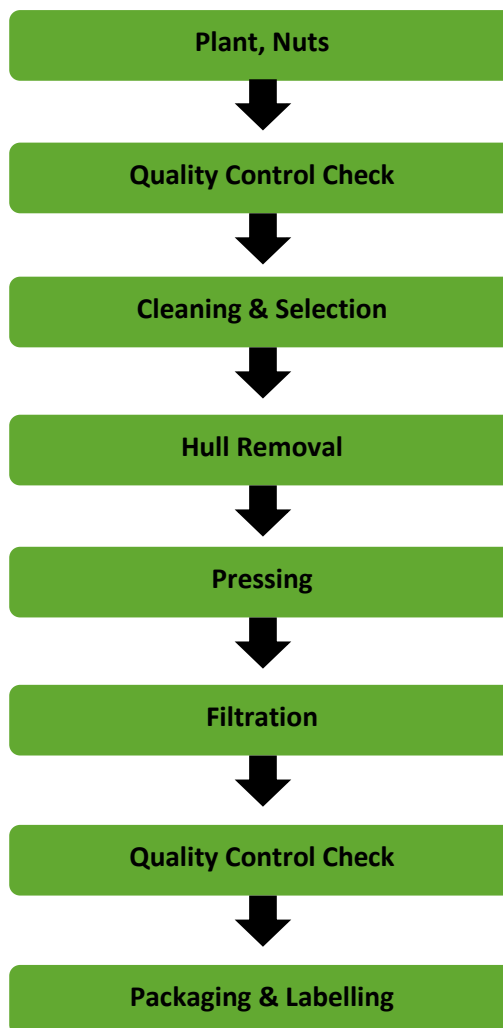
Batch Number	4511009
Best Before End	July 2025

**Appearance:** A clear, pale yellow liquid.  
**Odour & Taste:** Virtually no odour.

TEST	SPECIFICATION	ANALYSIS
Acid Value	2.0 maximum	0.54
Free Fatty Acid Value (% as Oleic)	1.0 maximum	0.27
Iodine Value	70 - 85	82.9
Specific Gravity @ 20°C	0.900 - 0.930	0.913
Refractive Index @ 20°C	1.455 - 1.470	1.467
Peroxide Value	10 maximum	2.46
Saponification Value	190 - 200	193.6
Unsaponifiable Matter	1.5 maximum	Complies

FATTY ACID COMPOSITION (%)		
C16:0 Palmitic	6.0 - 12	9.5
C16:1 Palmitoleic	0.9 - 24.0	9.0
C18:0 Stearic	2.0 - 8.0	2.9
C18:1 Oleic	50.0 - 70.0	66.9
C18:2 Linoleic	1.5 - 7.0	6.9
C18:3 Alpha Linolenic	3.0 maximum	0.5
C20:0 Arachidic	5 max	1.4
C20:1 Eicosenoic	3 max	1.5

Product Name	Organic Macadamia Oil CP		
Date	31/01/2022	Product Code	





## STATEMENT

### Organic Macadamia Oil

This product is not classed as a vegetable oil and as such does not contain any cosmetic allergens.

We have received confirmation from our supplier that the product in question is not derived from genetically modified organisms, nor have any been added during the production process.

It is suitable for both vegetarian and vegan use, due this product being a vegetable oil. It is not derived from any animal products and has not been subject to animal testing by ourselves, our suppliers or any commissioned third party.

DATE: 28/07/2021



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

<b>1.1 Product Identifier</b>					
Product Name		Organic Macadamia Oil Deodorised			
Product Code					
Biological Definition		Macadamia Integrifolia Seed Oil is the fixed oil obtained from the nuts of the Macadamia integrifolia, Proteaceae			
INCI Name		Macadamia Integrifolia Seed Oil			
CAS	438545-25-6	EC	159518-86-2	EINECS	159518-86-2
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
No additional data					
<b>1.3 Details of the supplier of the safety data sheet</b>					
Madar Corporation Limited 19 - 20 Sandleheath Industrial Estate Fordingbridge SP6 1PA					
<b>1.4 Emergency Tel. No.</b>		+ 44 (0) 1425 655 555			

## 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
No additional data	
Classification (EC 1272/2008)	
Not classed as hazardous substance.	
<b>2.2 Label Elements</b>	
Label in accordance with (EC) No 1272/2008	

None	
Signal Word	No additional data
Contains	No additional data
Hazard Statements	
None	
Precautionary Statements	
None	
Supplementary Statements	
None	
<b>2.3 Other Hazards</b>	
PBT or vPvB according to Annex XIII	No additional data
Adverse physio-chemical properties	No additional data
Adverse effects on human health	No additional data

### 03. COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.1 Composition</b>	
<p><b><u>Macadamia Integrifolia Seed Oil</u></b>  <b>CAS: 438545-25-6</b>  <b>Classification:</b>  - Not classed as a hazardous substance</p>	

### 04. FIRST AID MEASURES

<b>4.1 Description of first aid measures</b>	
Inhalation	Remove to fresh air and remain in a position which is comfortable for breathing. Seek medical attention.
Ingestion	Do NOT induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Seek medical attention.
Skin Contact	Remove contaminated clothing and wash before reuse. Wash skin thoroughly with soap and water. If discomfort occurs/continues, seek medical attention.
Eye Contact	Rinse eyes with clean water for a minimum of fifteen minutes. If safe to do so, remove to contact lenses and continue to rinse. Seek medical attention.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
No additional data	



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

Treat symptomatically.

### **05. FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing Media**

Carbon Dioxide, Foam, Dry Chemical Powder.

Do NOT use water.

#### **5.2 Special hazards arising from the product**

In the event of fire this product can generate oxides of carbon and other toxic gases. A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

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

Wear self-contained respiratory equipment and appropriate protective clothing at all times. Do not inhale any gases or fumes which may be generated. Containers in close proximity to fire should be removed to a safe distance and the exterior of the container cooled with water.

### **06. ACCIDENTAL RELEASE MEASURES**

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

Wear protective clothing as recommended at all times. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.

#### **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.**

Soak up spillage with sand or other inert material. Move soaked material to suitable waste container and dispose according to prevailing regulations.

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

Section 13

### **07. HANDLING AND STORAGE**

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

Adhere to all good health, safety and hygiene practices. If handling large/heavy packages or drums, ensure the use of suitable mechanical equipment at all times. Avoid contact with skin, eyes and clothing. Remove

and wash contaminated clothing before re-use. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation. Do not eat, drink or smoke whilst handling this product.

## 7.2 Conditions for safe storage, including any incompatibilities

Store In a cool, dry, well-ventilated area. Protect from freezing, heat and light including sunlight. Protect from all potential sources of ignition. Keep all containers tightly sealed when not in use.

## 7.3 Specific end use(s)

No additional data

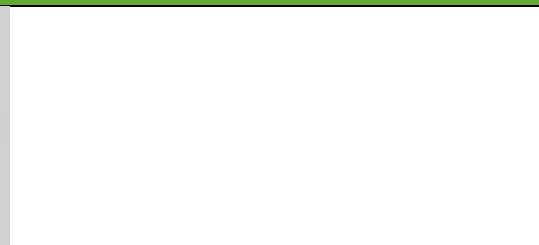
## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No additional data

### 8.2 Exposure controls

Protective Equipment



Process Conditions

No additional data

Engineering Measures

Install sufficient ventilation across all areas. Install readily available eyewash stations and safety showers.

Respiratory Equipment

In the event of airborne contamination of ventilation failure ensure the use of suitable respiratory equipment/ protection.

Hand Protection

Wear appropriate protective chemically resistant gloves at all times which comply with EN374.

Eye Protection

Wear appropriate protective safety goggles which comply with EN166 at all times.

Other Protection

No additional data

Hygiene Measures

Good hygiene practices are always recommended, especially when handling oils, chemicals or any other similar type of material.

Personal Protection	No additional data
Skin Protection	Wear appropriate protective chemically resistant clothing at all times to prevent any potential skin contact with this product.
Environmental Exposure Controls	Do not allow entry into drains, water courses or onto the ground.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	Clear Liquid
Colour	Pale – Light Yellow
Odour	Characteristic; Mild
Relative Density	~0.9145 @ 20°C
Flash Point (°C)	>200.0
Refractive Index	~1.468 @ 20°C
Melting Point (°C)	No additional data
Boiling Point (°C)	>350.0
Vapour Pressure	No additional data
Solubility in Water @20°C	Insoluble
Auto-ignition temperature (°C)	No additional data
<b>9.2 Other information</b>	
Soluble in oil/ethanol	

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	
It presents no significant reactivity hazards, by itself or in contact with water. Prolonged contact with air can slowly lead to a degree of oxidation with the liberation of free fatty acids.	
<b>10.2 Chemical stability</b>	
Expected to remain stable under recommended storage conditions. Becomes rancid on prolonged exposure to air.	
<b>10.3 Possible hazardous reactions</b>	



No additional data
<b>10.4 Conditions to Avoid</b>
Storage above 25°C
<b>10.5 Incompatible materials</b>
Strong Acids, Alkalis, Oxidising Agents
<b>10.6 Hazardous Decomposition Products</b>
Product does not decompose at proper handling. Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## **11. TOXOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>	
<b>Acute Toxicity</b>	Not a hazardous material.
<b>Skin corrosion / irritation</b>	No negative impact expected at normal usage levels.
<b>Serious eye damage / irritation</b>	Should not occur. Wash out oil splashes with sterile water. Consult a doctor if adverse reactions occur.
<b>Respiratory or skin sensitisation</b>	Should not occur at normal usage levels.
<b>Germ Cell Mutagenicity</b>	Not mutagenic.
<b>Carcinogenicity</b>	Not carcinogenic.
<b>Reproductive toxicity</b>	Not as reproductively toxic
<b>STOT-single exposure</b>	Should not negatively impact.
<b>STOT-repeated exposure</b>	Should not negatively impact.
<b>Aspiration hazard</b>	Should not negatively impact under normal usage conditions.
<b>Photo-toxicity</b>	Not photo-toxic.
<b>Other Information</b>	No additional data

## **12. ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>
Low, but large spills should be avoided and contained.

<b>12.2 Persistence &amp; degradability</b>
Fully biodegradable in small amounts.
<b>12.3 Bioaccumulation Potential</b>
Low
<b>12.4 Mobility in soil</b>
No additional data
<b>12.5 Results of PBT and vPvB Assessment</b>
No additional data
<b>12.6 Other adverse effects</b>
Do not allow product to enter streams, sewers or other waterways.

### **13. DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>
Always dispose of this product in accordance with local and national regulations. Do not allow entry into drains or waterways. Do not contaminate the ground or water with waste. Do not dispose of waste into the environment. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycling is always preferable to disposal. When containers have been fully emptied, ensure the labelling remains.

### **14. TRANSPORT INFORMATION**

<b>14.1 UN number</b>	
<b>UN No. Road</b>	Not restricted
<b>UN No. SEA</b>	Not restricted
<b>UN No. AIR</b>	Not restricted
<b>14.2 UN proper shipping name</b>	
No additional data	
<b>14.3 Transport hazard class(es)</b>	
No additional data	
<b>14.4 Packing group</b>	



No additional data
<b>14.5 Environmental hazards</b>
No additional data
<b>14.6 Special precautions for user</b>
Details throughout document: 6, 7, 8
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>
No additional data

## **15. REGULATORY INFORMATION**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Workplace Exposure Limits EH40. CHIP for everyone HSG (108). 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 amendment
<b>15.2 Chemical safety assessment</b>
No additional data

## **16. OTHER INFORMATION**

<b>Hazard Statements in Full</b>	None
<b>Revision Date</b>	31/01/2022
<b>Rev No</b>	7

**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 Specification

<b>PRODUCT</b>	Organic Macadamia Oil Deodorised		
<b>DATE</b>	16/06/2022	<b>REVISION</b>	4
<b>DESCRIPTION</b>	Macadamia Integrifolia Seed Oil is the fixed oil obtained from the nuts of the Macadamia integrifolia, Proteaceae		
<b>INCI NAME</b>	Macadamia Integrifolia Seed Oil		
<b>CAS NUMBER</b>	438545-25-6	<b>EC NUMBER</b>	
	159518-86-2		

### CHARACTERISTICS

<b>APPEARANCE AT ROOM TEMPERATURE</b>	Liquid
<b>COLOUR</b>	Pale – Yellow
<b>ODOUR</b>	Characteristic

### ANALYSIS

<b>SPECIFIC GRAVITY (g/ml)</b>	0.910 – 0.930 @ 20°C
<b>REFRACTIVE INDEX</b>	1.465 – 1.470 @ 20°C
<b>PEROXIDE VALUE (meq/kg) (AT TIME OF PRODUCTION ANALYSIS)</b>	≤10.0
<b>ACID VALUE (mg KOH/g)</b>	≤2.00
<b>FREE FATTY ACID (% AS OLEIC)</b>	≤1.00
<b>SAPONIFICATION (mg KOH/g)</b>	157.0 – 200.0
<b>IODINE VALUE (mg/g)</b>	70.00 – 85.00
<b>UNSAPONIFIABLE MATTER (%)</b>	≤1.50

### FATTY ACID PROFILE [%]

<b>C16:0</b>	<b>Palmitic Acid</b>	6.00 – 12.0
<b>C16:1</b>	<b>Palmitoleic Acid</b>	0.90 – 24.0
<b>C18:0</b>	<b>Stearic Acid</b>	2.00 – 8.00
<b>C18:1</b>	<b>Oleic Acid</b>	50.0 – 67.0
<b>C18:2</b>	<b>Linoleic Acid</b>	1.50 – 7.00
<b>C18:3</b>	<b>Linolenic Acid</b>	≤3.0
<b>C20:0</b>	<b>Arachidic Acid</b>	≤5.0
<b>C20:1</b>	<b>Eicosenoic Acid</b>	≤3.0
<b>C22:0</b>	<b>Behenic Acid</b>	≤2.0
<b>C24:0</b>	<b>Lignoceric Acid</b>	≤2.0

**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. 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. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## STATEMENT

### Organic Macadamia Oil

This product is not classed as a vegetable oil and as such does not contain any cosmetic allergens.

We have received confirmation from our supplier that the product in question is not derived from genetically modified organisms, nor have any been added during the production process.

DATE: 28/07/2021