

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: MORINGA SEED OIL, COLD PRESSED**

**BATCH NUMBER: 4525101**

PRODUCT INCI: MORINGA OLEIFERA SEED OIL

PRODUCT CODE: OCMORI

CAS NUMBER: 93165-54-9

EINECS NUMBER: 296-941-1

MANUFACTURING METHOD: COLD PRESSED

M<sub>ANUFACTURING DATE</sub>: 19/04/2022

B<sub>EST BEFORE DATE</sub>: November 2025

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	LIGHT YELLOW - GREEN	-
REFRACTIVE INDEX @ 20°C	1.450 – 1.472	1.4672
SPECIFIC GRAVITY @ 20°C	0.905 – 0.975	0.9097
PEROXIDE VALUE (MEQ O <sub>2</sub> / KG)	<20.0	0.1
ACID VALUE	<25.0	12.1
IODINE VALUE	50 - 77	66.33

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	2.0 – 10.0	6.78
C16:1	PALMITOLEIC	<3	1.36
C18:1	OLEIC	65.0 – 88.0	70.25
C18:2	LINOLEIC	<5.0	0.69
C18:3	ALPHA LINOLENIC	<25.0	0.17



## ALLERGEN STATEMENT

PRODUCT NAME: **MORINGA SEED OIL, REFINED**

### COSMETIC ALLERGENS

Annex IIIa Reference:		CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):
67	AMYL CINNAMAL	122-40-7	0.000
68	BENZYL ALCOHOL	100-51-6	0.000
69	CINNAMYL ALCOHOL	104-54-1	0.000
70	CITRAL	5392-40-5	0.000
71	EUGENOL	97-53-0	0.000
72	HYDROXY-CITRONELLAL	107-75-5	0.000
73	ISO EUGENOL	97-54-1	0.000
74	AMYL CINNAMYL ALCOHOL	101-85-9	0.000
75	BENZYL SALICYLATE	118-58-1	0.000
76	CINNAMAL	104-55-2	0.000
77	COUMARIN	91-64-5	0.000
78	GERANIOL	106-24-1	0.000
79	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	31906-04-4	0.000
80	ANISE ALCOHOL	105-13-5	0.000
81	BENZYL CINNAMATE	103-41-3	0.000
82	FARNESOL	4602-84-0	0.000
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.000
84	LINALOOL	78-70-6	0.000
85	BENZYL BENZOATE	120-51-4	0.000
86	CITRONELLOL	106-22-9	0.000
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.000
88	LIMONENE	5989-27-5	0.000
89	METHYL 2-OCTYNOATE	111-12-6	0.000
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.000
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.000
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.000



## FOOD ALLERGENS

Annex IIIa Reference:		PRESENT IN PRODUCT:	CONTAMINATION PRESENCE:	FACTORY PRESENCE:
1	CEREALS ( <i>CONTAINING GLUTEN</i> )	NO	NO	YES
2	CRUSTACEANS	NO	NO	NO
3	EGGS	NO	NO	NO
4	FISH	NO	NO	NO
5	PEANUTS	NO	NO	YES
6	SOYA	NO	NO	YES
7	MILK	NO	NO	YES
8	NUTS	NO	NO	YES
9	CELERY & CELERIAC	NO	NO	YES
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
13	LUPIN	NO	NO	NO
14	MOLLUSC	NO	NO	NO

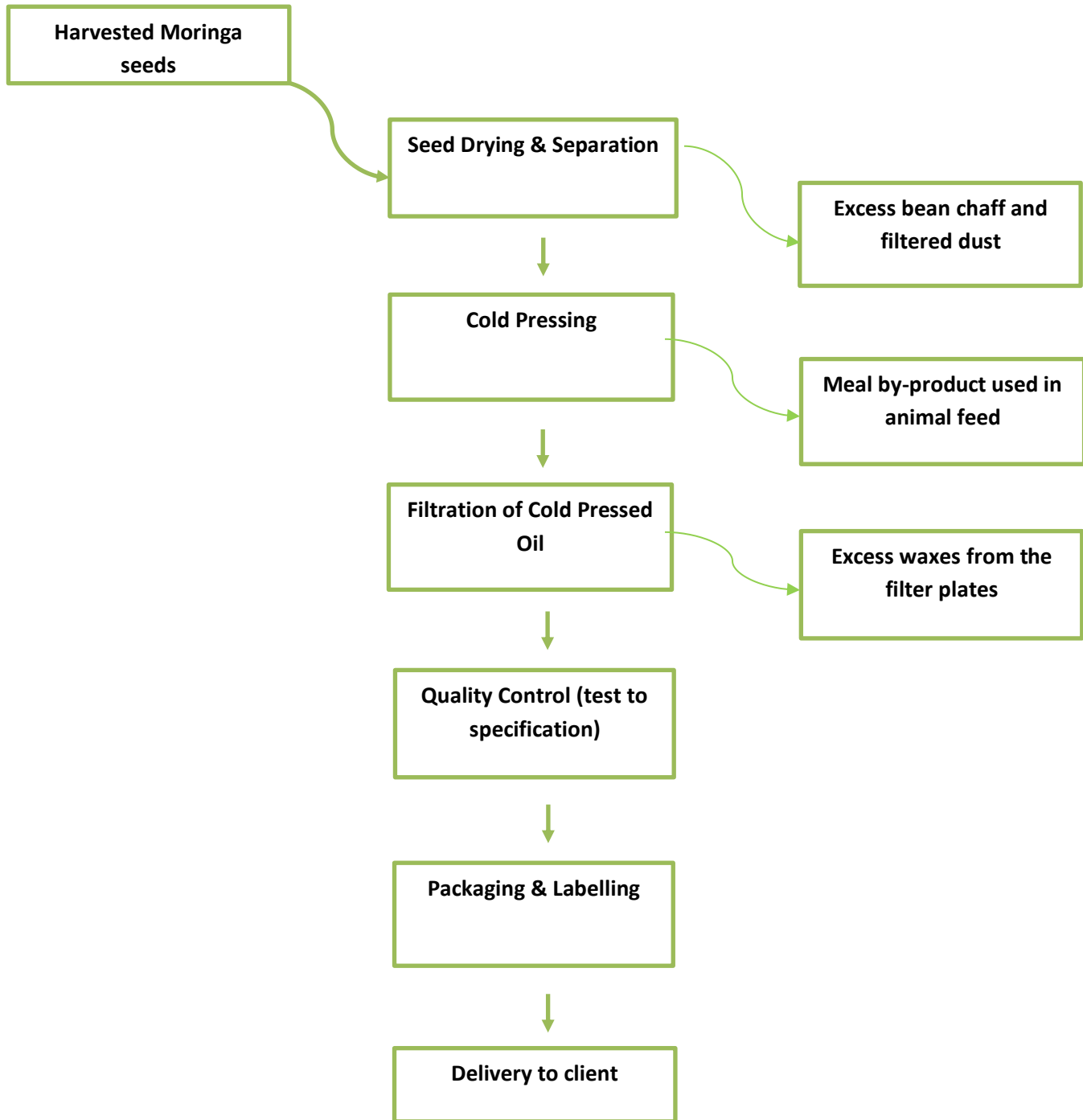


## Composition Statement & Manufacturing Flow Chart:

Madar Corporation Limited can hereby confirm the following composition breakdown & manufacturing process flow;

**Moringa Seed Oil, Cold Pressed**

INCI Name	% Inclusion	CAS Number
Moringa Oleifera Seed	100	93165-54-9





## **GMO Statement**

PRODUCT NAME: Moringa Refined

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

14-11-23



## Material Safety Data Sheet

EU Regulation: 2020/878

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

<b>1.1 Product Identification</b>					
<b>Product Name</b>	MORINGA SEED OIL, REFINED				
<b>Biological Definition</b>	MORINGA OLEIFERA SEED OIL IS A FIXED OIL OBTAINED FROM THE MORINGA TREE				
<b>INCI Name</b>	MORINGA OLEIFERA SEED OIL				
<b>Synonyms &amp; Trade Names</b>	MORINGA OIL				
<b>Internal Product Code</b>					
<b>CAS-No</b>	93165-54-9	<b>EC No.</b>	296-941-1	<b>EINECS No.</b>	296-941-1
<b>1.2 Details of the supplier of the safety data sheet</b>					
<b>Company Address</b>	Madar Corporation Limited 19 - 20 Sandealth Industrial Estate, Fordingbridge, SP6 1PA				
<b>Email</b>	technical@madarcorporation.co.uk				
<b>1.3 Details of the supplier of the safety data sheet</b>					
<b>Emergency Contacts</b>	01425 655 555				



**SECTION 2: Hazards Identification**

<b>2.1 Classification of the substance or mixture</b>	
<b>Classification (67/548/EEC)</b>	This product is not dangerous according to REACH Regulation 2020/878.
<b>Classification (EU 1272/2008)</b>	This product does not belong to any list of substances supposedly hazardous to human or animal health according to EU Regulation 1272/2008 & any further amendments, nor to those having recognized exposition limits. Care should be taken when handling hot oil as it may constitute a burn hazard. Spills can constitute a slippage hazard.
<b>2.2 Label Elements</b>	
<b>GHS Label</b>	None.
<b>Signal Word</b>	None.
<b>Contains</b>	None.
<b>Hazards Statement</b>	None.
<b>Signal Word</b>	None.
<b>Precautionary Statements</b>	None.
<b>Supplementary Precautionary Statements</b>	None.
<i>Section 16 (Other Information): Risk &amp; Safety phrases in full.</i>	
<b>2.3 Other Hazards</b>	
<b>Adverse physio-chemical properties</b>	None.
<b>Adverse effects on human health</b>	None.

**SECTION 3: Composition of Ingredients**

<b>3.1 Substances</b>	Not Applicable.
<b>3.2 Mixtures</b>	Not Applicable.

**SECTION 4: First Aid Measures**

<b>4.1 Description of First Aid Measures</b>	
<b>General Information</b>	Always remove contaminated clothing immediately.
<b>Inhalation</b>	Not expected for this particular product, however always best avoiding proactive inhalation.
<b>Ingestion</b>	No instruction as this is a non-toxic product.
<b>Skin Contact</b>	No instruction as this is a non-toxic product.





<b>Eye Contact</b>	Wash immediately & thoroughly with clean tap water.
<b>4.2 Most important symptoms &amp; effects (Acute &amp; Delayed)</b>	None.
<b>4.3 Indication of any immediate medical attention or special treatment required</b>	Not Applicable.

### SECTION 5: Fire Fighting Measures

<b>5.1 Extinguishing material</b>	Foam, Co2, Dry Chemical Powder.
<b>5.2 Special hazards arising from the substance Or mixture</b>	This product may only form ignitable mixtures or burn above the flash point. Dangerous combustion products include smoke & oxides of carbon.
<b>5.3 Advice for fire-fighters</b>	Standard. Wear self-contained breathing apparatus in confined spaces.

### SECTION 6: Accidental Release Measures

<b>6.1 Personal precautions</b>	None Required.
<b>6.2 Environmental precautions</b>	None Required.
<b>6.3 Methods &amp; material for containment and cleaning up</b>	Spills can be absorbed by cloth or sawdust, washed away with water & cleaned with sodic products.
<b>6.4 References to other sections</b>	Refer & consider section 8. Refer & consider section 13.

### SECTION 7: Handling & Storage

<b>7.1 Precautions for safe-handling</b>	Handle in accordance with good hygiene and safety practice. Keep containers sealed when not in use. Prevent spills & leaks to avoid slip hazard. Always wear personal protective clothing (refer to section 8). Do not eat, drink, sniff or smoke whilst handling this product. Provide suitable mechanical equipment for the safe handling of drums & heavy packages.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep the product container tightly closed, in a dry, ventilated area (at temperatures <20°C). Keep away from potential sources of ignition and protected from light. Maintain limited contact with oxygen.
<b>7.3 Specific end use(s)</b>	No Data.

### SECTION 8: Exposure Controls & Personal Protection

<b>8.1 Control Parameters</b>	None.
<b>8.2 Exposure Controls</b>	
<b>Eye Protection</b>	Not required as a non-toxic product, however we still recommend taking precautions by wearing protective eye-wear when handling the product.
<b>Hand Protection</b>	None.
<b>Respiratory Equipment</b>	None.
<b>Hygiene Measures</b>	None.
<b>Engineering Measures</b>	None.

### SECTION 9: Physical & Chemical Properties

<b>9.1 Physical &amp; Chemical Properties</b>	
<b>Appearance</b>	SLIGHTLY VISCOUS OILY LIQUID
<b>Colour</b>	CLEAR – LIGHT YELLOW - GREEN
<b>Odour</b>	ODOURLESS
<b>Relative Density</b>	NO DATA.
<b>Refractive Index</b>	1.462 – 1.476
<b>Flash Point (°C)</b>	>280°C.
<b>Melting Point (°C)</b>	NOT APPLICABLE.
<b>Boiling Point (°C)</b>	>100°C.
<b>Vapour Pressure</b>	NO DATA.
<b>Solubility in Water @ 20°C</b>	INSOLUBLE.
<b>9.2 Other Information</b>	NO DATA.
<b>9.2.1 Information with regard to physical hazard classes</b>	NONE.
<b>9.2.2 Other safety characteristics</b>	NONE.
<b>SECTION 10: Stability &amp; Reactivity</b>	
<b>10.1 Reactivity</b>	Not Applicable.
<b>10.2 Chemical stability</b>	Stable under suggested storage conditions (<20°C).
<b>10.3 Possibility of hazardous reactions</b>	No.
<b>10.4 Conditions to avoid</b>	Storage at high temperatures. Do not store above 20°C.
<b>10.5 Incompatible materials</b>	Concentrated acids, alkalis & oxidising agents.
<b>10.6 Hazardous decomposition products</b>	This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke.

<b>SECTION 11: Toxicological Information</b>	
<b>11.1 Toxicological effects</b>	
<b>Acute Toxicity</b>	A non-toxic product. For pharmaceutical & cosmetic use only. This product does not carry a microbiological specification as it is sterilised in the refining process. It does not contain any impurities. This product is not included in the list of substances prohibited in cosmetic products or subject to restrictions. It does not contain colorants, preservatives or UV filters (Annex II – VI of EU regulation 1223/2009).
<b>Skin irritation</b>	Not Applicable.
<b>Eye damage or irritation</b>	Not Applicable.
<b>Respiratory or skin sensitivity</b>	Not Applicable.



<b>Germ cell mutagenicity</b>	Not Applicable.
<b>Carcinogenicity</b>	Not Applicable.
<b>Reproductive toxicity</b>	Not Applicable.
<b>STOT – single exposure</b>	Not Applicable.
<b>STOT – repeated exposure</b>	Not Applicable.
<b>Aspiration hazard</b>	Not Applicable.
<b>11.2 Information on other hazards</b>	Not Applicable.
<b>SECTION 12: Ecological Information</b>	
<b>12.1 Toxicity</b>	Low - None.
<b>12.2 Persistence &amp; degradability</b>	>90% (OECD)
<b>12.3 Bio- accumulative potential</b>	None.
<b>12.4 Mobility in soil</b>	Low – None.
<b>12.5 Results of PBT &amp; VPVB assessment</b>	Not Available.
<b>12.6 Endocrine disrupting properties</b>	None.
<b>12.7 Other adverse effects</b>	None.
<b>SECTION 13: Disposal Information</b>	
<b>13.1 Waste treatment methods</b>	Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with local & national waste regulations.

<b>SECTION 14: Transport Information</b>	
<b>14.1 Transport Information</b>	
<b>Warning icon</b>	Road (ADR), Rail (RID), Sea (IMDG) and Air (ICAO), transport not restricted in drums or food tankers.
<b>Shipping Name</b>	Not Applicable.
<b>UN Number (Road)</b>	Not Applicable.
<b>ADR Class</b>	Not Applicable.
<b>Hazard Number (ADR)</b>	Not Applicable.
<b>Hazchem Code</b>	Not Applicable.
<b>UN Number (Sea)</b>	Not Applicable.
<b>IMDG Class</b>	Not Applicable.
<b>IMDG Pack GR.</b>	Not Applicable.
<b>EMS</b>	Not Applicable.
<b>UN Number (Air)</b>	Not Applicable.
<b>Air Class</b>	Not Applicable.



<b>Air Pack GR.</b>	Not Applicable.
<b>Maritime transport in bulk according to IMO instruments</b>	Not Applicable.
<b>SECTION 15: Regulatory Information</b>	
<b>15.1 Product specific safety, health &amp; environmental regulations &amp; legislation</b>	
<b>EU Directives</b>	Regulation (EC) No 2020/878 of the European Parliament and of the council of 18 <sup>th</sup> December 2006. Concerning the registration, evaluation, authorization & restriction of chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing council regulation (EEC) No793/93 & commission regulation (EC) No1488/94 as well as council directive 76/769/EEC & commission directive 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (including amendments).
<b>Statutory Instruments</b>	The Chemicals (Hazard Information & Packaging for Supply Regulations 2009 (S.I.2009 No 716).
<b>Approved Code of Practice</b>	Classification & labelling of substances & preparations dangerous for supply. Safety data sheets for substances & preparations.
<b>Guidance Notes</b>	Workplace exposure limits EH40. CHIP for everyone HSG 108.
<b>15.2 Chemical Safety Assessment</b>	Assessment has not been carried out as this is a non-hazardous material according to article 31 of REACH 2020/878.

<b>SECTION 16: Other Information</b>	
<b>Allergens:</b>	None.
<b>Training Instructions: Refer to possible hazard before use of this product.</b>	
<b>Abbreviations &amp; Acronyms:</b>	
<b>MSDS</b>	Material Safety Data Sheet.
<b>INCI</b>	International Nomenclature of Cosmetic Ingredients.
<b>CAS</b>	Chemical Abstract Service.
<b>IMDG</b>	International Maritime code for Dangerous Goods.
<b>ADR</b>	Accord European sur le transport des marchandises Dangereuses par Route (European Agreement concerning the international Carriage of Dangerous goods by Road).
<b>RID</b>	International Carriage of Dangerous Goods by Rail.
<b>ICAO</b>	International Civil Aviation Organization.
<b>ADN</b>	International Carriage of Dangerous Goods by Inland Waterways.
<b>GHS</b>	Globally Harmonized System of classification & labelling of chemicals.



<b>Trem Card</b>	Transport Emergency Card.
<b>STOT</b>	Specific Target Organ Toxicity.

<b>Documentation Revision</b>	
<b>Date</b>	<b>Change Description</b>
10 <sup>th</sup> April 2018	Data Launch
November 2020	Review
January 2023	Review



## SPECIFICATION SHEET

**PRODUCT NAME: MORINGA SEED OIL, REFINED**

PRODUCT INCI: MORINGA OLEIFERA SEED OIL

CAS NUMBER: 93165-54-9

EINECS NUMBER: 296-941-1

MANUFACTURING METHOD: COLD PRESSED & REFINED

SHELF LIFE: 12 MONTHS

DOCUMENTATION REVIEWED: 2021

ANALYTICAL DETAILS	RANGE %
APPEARANCE	SLIGHTLY VISCOUS OILY LIQUID
COLOUR	CLEAR – LIGHT YELLOW - GREEN
ODOUR	ODOURLESS
SPECIFIC GRAVITY @ 20°C	0.898 – 0.910
REFRACTIVE INDEX @ 20°C	1.450 – 1.476
FREE FATTY ACID (OLEIC)	<4.0
SAPONIFICATION VALUE	164 – 190
PEROXIDE VALUE	<10.0
IODINE VALUE	65.0 – 112.0
ACID VALUE	<8.0

FATTY ACID PROFILE		RANGE %
C-CHAIN	ACID NAME	
C16:0	PALMITIC	<9.0
C18:0	STEARIC	5.0 – 10.0
C18:1	OLEIC	65.0 – 80.0
C20:0	ARACHIDIC	<5.0
C20:1	GONDOIC	<4.0
C22:0	BEHENIC	2.0 – 8.0



## **Vegetarian & Vegan Suitability Statement**

PRODUCT NAME: Moringa Refined

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.

14-11-23