



CERTIFICATE OF ANALYSIS

Product Marula
Batch No: 4517503
Best Before End: September 2025

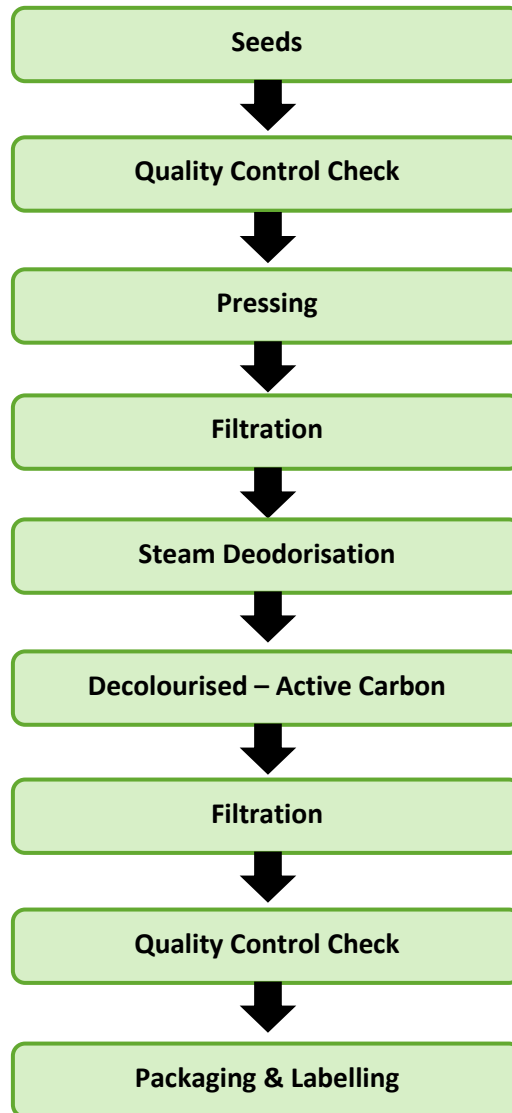
Appearance: Liquid yellow to pale yellow
Odour: Characteristic

TEST	SPECIFICATION	ANALYSIS
Specific Gravity @ 20°C (g/ml)	0.910 – 0.925	0.918
Refractive Index @ 20°C	1.462 – 1.479	1.472
Optical Rotation @ 20°C	-10.0° to +10.0°	0.0
Acid Value (mg/KOH/g)	1.0 maximum	0.07
Iodine Value (mg/g)	100.0 – 120.0	107.9
Saponification Value	187.0 – 197.0	Complies

FATTY ACID PROFILE (%)		
C16:0 Palmitic	8.0 maximum	5.0
C18:0 Stearic	8.0 maximum	2.8
C18:1 Oleic Acid	48.0 – 62.0	54.6
C18:2 Linoleic	27.0 – 47.0	34.1

Flowchart

PRODUCT	Marula Oil Refined	
		DATE 14/09/2022



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.



Document Date:

December 2018

STATEMENT

We hereby certify that the Marula Oil we sell is free of genetically modified materials and components. No ingredients, additives or processing aids of GM origin are used in the processing and purifying of the oil.



VAT No. 145 5270 74



19-20 Sande Heath Industrial Estate, Bordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk



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Material Safety Data Sheet

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

1.1	PRODUCT IDENTIFIER	
	PRODUCT NAME	Marula Oil Refined
	PRODUCT CODE	WHC370
	INCI NAME	Sclerocarya Birrea Seed Oil
	CAS	-
	EC	-
1.2	RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE, AND USES ADVISED AGAINST	
	Component of; Food, Animal Food, Cosmetic products, pharmaceutical products and technical applications.	
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	
	COMPANY ADDRESS	Madar Corporation Limited 19 - 20 Sandealth Industrial Estate Fordingbridge. SP6 1PA
	EMAIL ADDRESS	technical@madarcorporation.co.uk
1.4	EMERGENCY TELEPHONE NUMBER	+ 44 (0) 1425 655 555

02. HAZARDS IDENTIFICATION

2.1	CLASSIFICATION OF THE SUBSTANCE OR MIXTURE	
	CLASSIFICATION (EC 1272/2008)	
	Not classified as hazardous.	
2.2	LABEL ELEMENTS	
	LABEL IN ACCORDANCE WITH (EC) NO 1272/2008	
	None	
	SIGNAL WORD	None
	HAZARD STATEMENTS	
	None	
	PRECAUTIONARY STATEMENTS AND/OR SUPPLEMENTARY STATEMENTS	
	None	
	SUPPLEMENTARY STATEMENTS	
	None	
2.3	OTHER HAZARDS	
	ADVERSE EFFECTS ON HUMAN HEALTH	No additional data
	ADVERSE PHYSIO-CHEMICAL PROPERTIES	No additional data

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2	SUBSTANCES/MIXTURES
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	No additional data
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04. FIRST AID MEASURES

4.1	DESCRIPTION OF FIRST AID MEASURES
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.
4.2	MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
	No additional data
4.3	INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
	Treat symptomatically.

05. FIREFIGHTING MEASURES

5.1	EXTINGUISHING METHODS
	<ul style="list-style-type: none"> - Carbon Dioxide - Alcohol Resistant Foam - Dry Chemical Powder Do NOT use water.
5.2	HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
	This product is made up of inflammable material with low risk. The product may only form ignitable mixtures or burn only upon heating above the flash point. However, minor contamination by lightly volatile hydrocarbons may in-crease the hazard. Ignition hazard at welding at the empty container. 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	ENVIROMENTAL PRECAUTIONS




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	Do not allow the product to enter drains or sewers, water course or the ground. Do not allow the product to enter the environment.
6.3	METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP THIS PRODUCT
	Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with current laws and regulations. If Spillage on water occurs; Confine the spill immediately with booms. Warn other ships. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. In running waters, apply appropriate dispersants in accordance with local regulation.
6.4	REFERENCE TO OTHER SECTIONS
	Section 13

07. EXPOSURE CONTROLS AND/OR PERSONAL PROTECTION

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. Intrusion into soil to be avoided. Take precautions to avoid static discharges in working area. Electrical equipment and fittings must comply with local regulations.
7.3	SPECIFIC END USE(S)

08. EXPOSURE CONTROLS

8.1	CONTROL PARAMETERS
	No additional data
8.2	EXPOSURE CONTROLS
	PROTECTIVE EQUIPMENT
	   <p>Use all equipment as required and/or recommended for safe handling.</p>
	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 or ventilation failure ensure the use of suitable respiratory equipment/protection.
	HAND PROTECTION Wear appropriate protective chemically resistant gloves which comply with

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	EN374.
EYE PROTECTION	Wear appropriate protective safety goggles which comply with EN166.
HYGIENE MEASURES	Good hygiene practices are always recommended, especially when handling oils, chemicals or any other similar type of material.
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 the product to enter drains or sewers, water course or the ground. Prevent environmental contamination.
OTHER AND/OR PERSONAL PROTECTIVE MEASURES	No additional data

09. PHYSICAL AND CHEMICAL PROPERTIES

7.1	INFORMATION ON BASIC PHYSICAL & CHEMICAL PROPERTIES	
	APPEARANCE (E.G. LIQUID)	Liquid
	COLOUR	Pale – Yellow
	ODOUR	Characteristic
	SPECIFIC GRAVITY	~0.917 @ 20°C
	REFRACTIVE INDEX	~1.470 @ 20°C
	FLASH POINT (°C)	>250.0
	AUTO-IGNITION TEMPERATURE (°C)	No additional data
	MELTING POINT (°C)	No additional data
	BOILING POINT (°C)	No additional data
	SOLUBILITY	Insoluble in water. Soluble in oil, ethanol.
	VAPOUR PRESSURE	No additional data
9.2	ADDITIONAL INFORMATION	No additional data

10. STABILITY & REACTIVITY

10.1	REACTIVITY
	Expected to remain stable under recommended storage conditions.
10.2	CHEMICAL STABILITY
	Expected to remain stable under recommended storage conditions.
10.3	POSSIBLE HAZARDOUS REACTIONS
	Reacts with oxidants.
10.4	CONDITIONS TO AVOID
	Heat. Extremes of temperature. Any potential source of ignition including but not limited to sparks and flames.
10.5	INCOMPATIBLE MATERIALS
	Strong Acids, Alkalis, Oxidizing Agents

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10.6	HAZARDOUS DECOMPOSITION PRODUCTS
	In the event of fire this product may generate oxides of carbon and other toxic gases.

11. TOXOLOGICAL INFORMATION	
11.1	ACUTE TOXICITY
	No additional data
11.2	SKIN CORROSION/IRRITATION
	No additional data
11.3	SERIOUS EYE DAMAGE/IRRITATION
	No additional data
11.4	RESPIRATORY/SKIN SENSITIZATION
	No additional data
11.5	GERM CELL MUTAGENICITY/CARCINOGENICITY/REPRODUCTIVE TOXICITY
	No additional data
11.6	STOT – SINGLE EXPOSURE
	No additional data
11.7	STOT – REPEATED EXPOSURE
	No additional data
11.8	ASPIRATION HAZARD
	No additional data
11.9	GENERAL AND/OR ADDITIONAL DATA; E.G. PHOTOTOXICITY
	No additional data

12. ECOLOGICAL AFFECTS	
12.1	TOXICITY
	No additional data
12.2	PERSISTENCE & DEGRADABILITY
	No additional data
12.3	BIOACCUMULATIVE POTENTIAL
	No additional data
12.4	MOBILITY IN SOIL AND/OR WATER
	No additional data
12.5	RESULTS OF A PBT/vPvB ASSESSMENT
	No additional data
12.6	OTHER ADVERSE EFFECTS
	No additional data

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13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

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

14.1	UN NUMBER	Not restricted
14.2	UN PROPER SHIPPING NAME	Not applicable
14.3	TRANSPORT HAZARD CLASS(ES)	Not applicable
14.4	PACKING GROUP	Not applicable
14.5	ENVIRONMENTAL HAZARDS	Not applicable
14.6	SPECIAL PRECAUTIONS FOR USER	Details throughout document: 6, 7, 8
14.7	TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE	No additional data

15. REGULATORY INFORMATION

15.1	SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	
	This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP), EC 453/2010&830/2015.	
15.2	CHEMICAL SAFETY ASSESSMENT	
	No additional data	

16. OTHER INFORMATION

16.1	HAZARD STATEMENTS	None
16.2	REVISION DATE	30/09/2022
16.3	REVISION NUMBER	6



Product Specification

PRODUCT	Marula Oil Refined				
CODE		DATE	29/07/2022	REVISION	6

DESCRIPTION	Sclerocarya Birrea Seed Oil is the oil expressed from the seeds of the Sclerocarya birrea, Anacardiaceae				
INCI NAME	Sclerocarya Birrea Seed Oil				
CAS NUMBER	-	EC NUMBER	-		

CHARACTERISTICS

APPEARANCE AT ROOM TEMPERATURE	Liquid
COLOUR	Yellow
ODOUR	Characteristic

ANALYSIS

SPECIFIC GRAVITY (g/ml)	0.910 – 0.925 @ 20°C
REFRACTIVE INDEX	1.462 – 1.479 @ 20°C
OPTICAL ROTATION (°)	-10.0 to +10.0 @ 20°C
ACID VALUE (mg KOH/g)	≤1.00
IODINE VALUE (mg/g)	100.0 – 120.0

FATTY ACID PROFILE (%)

C16:0	PALMITIC ACID	≤8.00
C18:0	STEARIC ACID	≤8.00
C18:1	OLEIC ACID	48.00 – 62.00
C18:2	LINOLEIC ACID	27.00 – 47.00



Vegetarian & Vegan Suitability Statement

PRODUCT NAME: **Marula Oil**

MADAR Corporation Limited can confirm that the above listed product does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.