



CERTIFICATE OF ANALYSIS

Product: Walnut Oil
Batch Number: 4507708
Best Before End: May 2025

Description: A light golden yellow oil, with virtually no odour or flavour

TEST	SPECIFICATION	ANALYSIS
Free Fatty Acid Value	0.5 maximum	0.1
Peroxide Value	10.0 maximum	2.0
Specific Gravity @ 20°C	0.910 – 0.930	0.915
Refractive Index @ 20°C	1.465 – 1.473	1.469
Colour Lovibond 5.25" cell	2.0 Red maximum	1.0
	20.0 Yellow maximum	9.0
Iodine Value	147 - 160	155
Unsaponifiable Matter	1.5 maximum	0.9

FATTY ACID COMPOSITON (%)		
C16:0 Palmitic	6.0 – 8.0	7.1
C18:0 Stearic	2.0 – 3.0	3.0
C18:1 Oleic	15.1 – 19.6	17.8
C18:2 Linoleic	58.0 – 62.0	59.0
C18:3 Alpha Linolenic	11.0 – 13.5	11.7



ALLERGEN STATEMENT Walnut Oil

We hereby state and certify that the Walnut Oil RBDW that we supply as a highly refined oil, is **Gluten and protein free** and doesn't contain other Tree nuts or Peanuts, nor other **allergens** listed in EU Directive 2007/68/EC. Our approved suppliers to the business segregate the known allergens during processing and during storage, but customers are advised to carry out additional testing if appropriate



Document Date:

June 2019

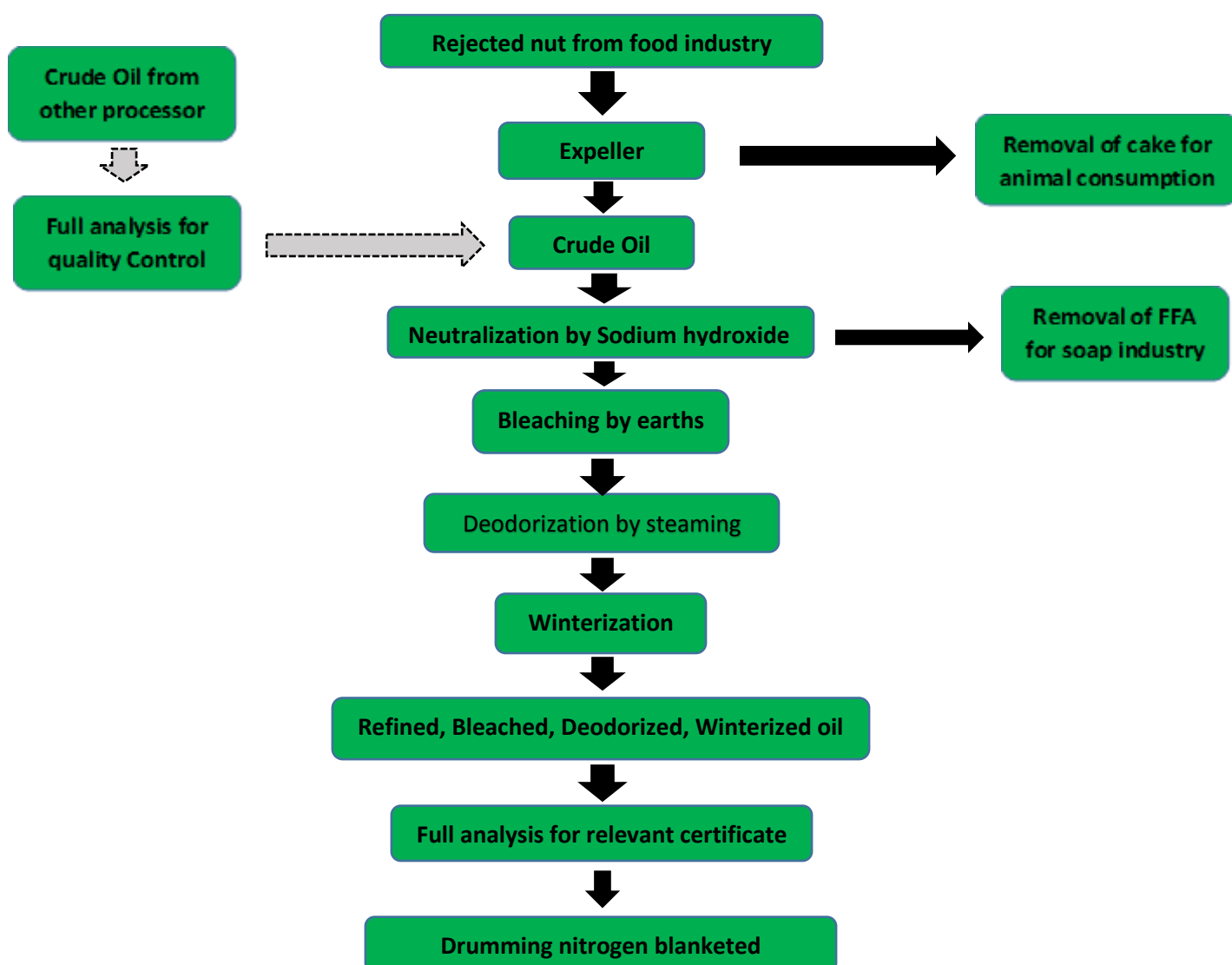
STATEMENT

We hereby certify that **Walnut Oil Refined**, 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.

BiOrigins, 19-20 Sandealth Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk

19-20 Sandealth Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk
Page 3 of 13

Product Name	Walnut Oil
Date	29.11.2017



Material Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING	
1.1	PRODUCT IDENTIFIER
	PRODUCT NAME Walnut Oil Refined
	INCI NAME Juglans Regia Seed Oil
	CAS 8024-09-7 84012-43-1
	EC 281-688-1
	REACH REGISTRATION NO. (if applicable) Exempt
1.2	RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE, AND USES ADVISED AGAINST
	Raw material for cosmetic and pharmaceutical products (emollient)
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
	COMPANY ADDRESS Madar Corporation Limited 19 - 20 Sandehealth Industrial Estate, Fordingbridge, SP6 1PA
	EMAIL ADDRESS technical@madarcorporation.co.uk
1.4	EMERGENCY TELEPHONE NUMBER + 44 (0) 1425 655 555
	Available during office hours.

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

Material Safety Data Sheet

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES					
	PERCENTAGE	NAME	CAS	REACH REGISTRATION NO. (if applicable)	HAZARD CLASSIFICATION
	100.0	Juglans Regia Seed Oil	8024-09-7	-	Not classified as hazardous.

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	
	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

Material Safety Data Sheet

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
	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
	Small spills and residues may be absorbed with material such as cloth or sawdust, washed away with water and cleaned with sodic products. Larger spillage may be pumped.
6.4	REFERENCE TO OTHER SECTIONS
	Sections 8 & 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. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
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. Use only non-sparking tools. Take precautionary measures against static discharge.
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.

Material Safety Data Sheet

RESPIRATORY EQUIPMENT	In the event of ventilation failure or insufficient ventilation, ensure the use of appropriate respiratory equipment/protection.
HAND PROTECTION	Wear appropriate protective chemically resistant gloves which comply with 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	Light Yellow
	ODOUR	Characteristic
	SPECIFIC GRAVITY	0.910 - 0.930
	REFRACTIVE INDEX	No additional data
	FLASH POINT (°C)	>280.0
	AUTO-IGNITION TEMPERATURE (°C)	>310.0
	MELTING POINT (°C)	No additional data
	BOILING POINT (°C)	>100.0
	FLAMMABILITY	Ignitable above flash point.
	EXPLOSION LIMITS	No additional data
	DECOMPOSITION TEMPERATURE (°C)	No additional data
	SOLUBILITY	Insoluble in water. Soluble in vegetable oils.
	pH	No additional data
	VISCOSITY	No additional data
	PARTITION COEFFICIENT N-OCTANOL/WATER (log value)	No additional data
	VAPOUR PRESSURE	2.16 kPa
	VAPOUR DENSITY	No additional data
9.2	ADDITIONAL INFORMATION	No additional data

10. STABILITY & REACTIVITY

Material Safety Data Sheet

10.1	REACTIVITY
	Presents no significant reactivity hazard, by itself or in contact with water.
10.2	CHEMICAL STABILITY
	Stable under normal circumstances. Avoid high temperature in warehousing, avoid heating at more than 60°C (for cosmetic use).
10.3	POSSIBLE HAZARDOUS REACTIONS
	No additional data
10.4	CONDITIONS TO AVOID
	Extremes of temperature. All potential sources of ignition. Heating above the flash point.
10.5	INCOMPATIBLE MATERIALS
	Acids, Alkalis, Oxidizing Agents
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
	Not expected in normal use.
11.2	SKIN CORROSION/IRRITATION
	Not expected in normal use.
11.3	SERIOUS EYE DAMAGE/IRRITATION
	Not expected in normal use. Mildly irritating to eyes.
11.4	RESPIRATORY/SKIN SENSITIZATION
	Not expected in normal use.
11.5	GERM CELL MUTAGENICITY/CARCINOGENICITY/REPRODUCTIVE TOXICITY
	Not expected in normal use.
11.6	STOT – SINGLE EXPOSURE
	Not expected in normal use.
11.7	STOT – REPEATED EXPOSURE
	Not expected in normal use.
11.8	ASPIRATION HAZARD
	Not expected in normal use.
11.9	GENERAL AND/OR ADDITIONAL DATA; E.G. PHOTOTOXICITY
	No additional data

12. ECOLOGICAL AFFECTS

12.1	TOXICITY
-------------	-----------------

Material Safety Data Sheet

	Low
12.2	PERSISTENCE & DEGRADABILITY
	>90% (OECD)
12.3	BIOACCUMULATIVE POTENTIAL
	None
12.4	MOBILITY IN SOIL AND/OR WATER
	Low. Insoluble in water.
12.5	RESULTS OF A PBT/vPvB ASSESSMENT
	No additional data
12.6	OTHER ADVERSE EFFECTS
	No additional data

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 MODEL REGULATIONS	Not applicable
	IMDG	Not applicable
	ADR, RID, AND	Not applicable
	ICAO TI	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

Material Safety Data Sheet

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	CONCENTRATION PERCENTAGE LIMITS No additional data
16.3	TOTAL FRACTIONAL VALUES No additional data
16.4	KEY - ABBREVIATIONS - -
16.5	REVISION DATE 06/02/2023
16.6	REVISION NUMBER 6
16.7	REVISION REASON Document review, new format.



Product Specification

PRODUCT	Walnut Oil Refined				
CODE		DATE	23/05/2023	REVISION	7

DESCRIPTION	Oil obtained by expeller pressing the ripe seed of 'Juglans regia' chemically refined, bleached, deodorized and winterized				
INCI NAME	Juglans Regia Oil				
CAS NUMBER	8024-09-7	EC NUMBER	617-023-2		

CHARACTERISTICS

APPEARANCE AT ROOM TEMPERATURE	Liquid
COLOUR	Clear – Light Yellow
ODOUR	Odourless

ANALYSIS

COLOUR (Lovibond 5%)	<20Y, 2.0R
SPECIFIC GRAVITY	0.910 - 0.930 @ 20°C
REFRACTIVE INDEX	1.465 - 1.473 @ 20°C
UNSAPONIFIABLE MATTER (%)	≤1.5 %
FFA (% Oleic Acid)	≤0.5 %
PEROXIDE VALUE (meq O₂/kg)	≤10.0
IODINE VALUE (gr I₂/100g)	147.0 – 160.0

FATTY ACID PROFILE (%)

C16:0	PALMITIC ACID	6.0 – 8.0
C16:1	PALMITOLEIC ACID	≤0.4
C18:0	STEARIC ACID	2.0 – 3.0
C18:1	OLEIC ACID	15.1 – 19.6
C18:2	LINOLEIC ACID	58.0 – 62.0
C18:3	LINOLENIC ACID	11.0 – 13.5



Document Date: June 2019

STATEMENT

We hereby certify that Walnut Oil Refined is suitable for Vegan and Vegetarians.

BiOrigins, 19-20 Sandeheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk

19-20 Sandeheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk
Page 13 of 13