



CERTIFICATE OF ANALYSIS

PRODUCT NAME: MACADAMIA NUT OIL, REFINED

PRODUCT INCi: MACADAMIA INTEGRIFOLIA OIL

CAS NUMBER: 129811-19-4

EINECS NUMBER: N/A

MANUFACTURING METHOD: EXPELLER PRESSED & REFINED

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	CLEAR - LIGHT YELLOW OILY LIQUID	-
COLOUR LOVIBOND (5 1/4" CELL)	<20Y, <2.0R	-
ODOUR	ODOURLESS	-
SPECIFIC GRAVITY @ 20°C	0.910 – 0.930	0.916
REFRACTIVE INDEX @ 20°C	1.465 – 1.470	1.467
SAPONIFICATION VALUE	187 - 200	191,0
UNSATURATED MATTER	<1.5	0.7
FREE FATTY ACID (% AS OLEIC)	<1.0	0.1
PEROXIDE VALUE	<10.0	0.8
IODINE VALUE	70 - 85	84.0

FATTY ACID PROFILE		RANGE %	RESULTS
C16:0	PALMITIC	6.0 – 12.0	10.2
C16:1	PALMITOLEIC	9.0 – 20.0	9.4
C18:0	STEARIC	2.0 - 8.0	3.2
C18:1	OLEIC	50.0 – 67.0	65.9
C18:2	LINOLEIC	3.0 – 7.0	6.6
C18:3	LINOLENIC	< 3.0	0.2
C20:0	ARACHIDIC	< 5.0	1.4
C20:1	EICOSANOIC	< 3.0	1.2
C22:0	BEHENIC	< 2.0	0.8
C24:0	LIGNOCERIC	<2.0	0.3

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ALLERGEN STATEMENT

PRODUCT NAME: **MACADAMIA NUT 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	YES	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

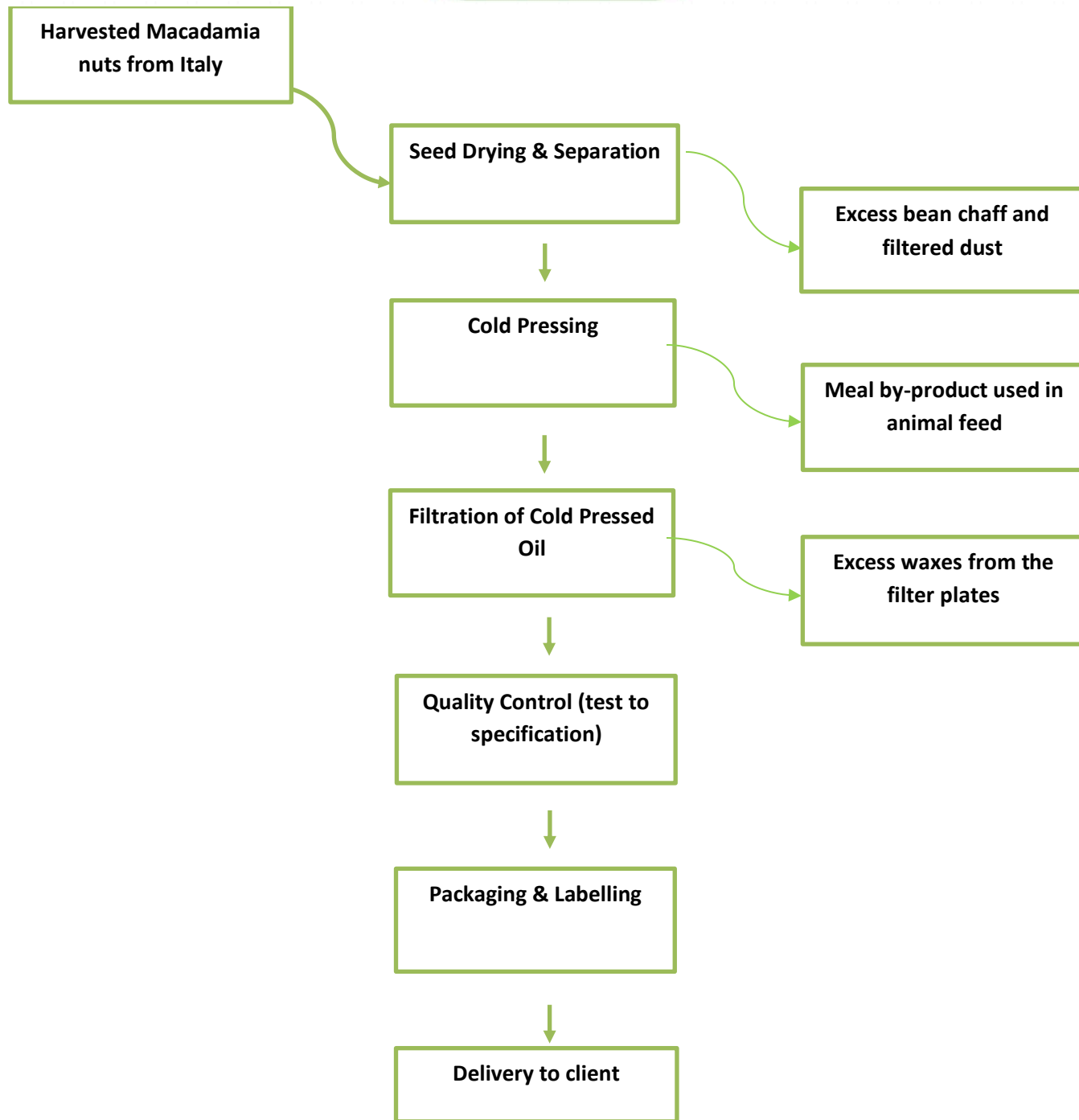


Composition Statement & Manufacturing Flow Chart:

We can hereby confirm the following composition breakdown & manufacturing process flow;

Macadamia Nut Oil, Cold Pressed

INCI Name	% Inclusion	CAS Number
Macadamia Integrifolia	100	128497-20-1 / 129811-19-4



GMO Statement

PRODUCT NAME: Macadamia Oil

Ekokoza s.r.o. can confirm that the above listed product is GMO Free.

20-04-2021



Material Safety Data Sheet

EU Regulation: 2020/878

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

1.1 Product Identification					
Product Name	MACADAMIA NUT OIL, REFINED				
Biological Definition	MACADAMIA INTEGRIFOLIA SEED OIL IS A FIXED OIL OBTAINED FROM THE MACADAMIA NUT				
INCI Name	MACADAMIA INTEGRIFOLIA SEED OIL				
Synonyms & Trade Names	MACADAMIA OIL				
CAS-No	438545-25-6; 159518-86-2	EC No.	NOT LISTED	EINECS No.	NOT LISTED
1.2 Details of the supplier of the safety data sheet					
Company Address	Ekokoza s.r.o., IČ:07508247, Fryčovice 297, 73945 Fryčovice, eshop@ekokoza.cz, +420605779993				
1.3 Details of the supplier of the safety data sheet					
Emergency Contacts	Nouzové telefonní číslo: +420224919293 , +420224915402 (telefon 24hod/ denně) Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha2)				

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SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture	
Classification (67/548/EEC)	This product is not dangerous according to REACH Regulation 1907/2006.
Classification (EU1272/2008)	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.
2.2 Label Elements	Label in accordance with Regulation (EC) No 1272/2008.
GHS Label	None.
Signal Word	None.
Contains	None.
Hazards Statement	None.
Signal Word	None.
Precautionary Statements	None.
Supplementary Precautionary Statements	None.
Section 16 (Other Information): Risk & Safety phrases in full.	
2.3 Other Hazards	
Adverse physio-chemical properties	None.
Adverse effects on human health	None.
SECTION 3: Composition of Ingredients	
3.1 Substances	Not Applicable.
3.2 Mixtures	Not Applicable.

SECTION 4: First Aid Measures

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4.1 Description of First Aid Measures	
General Information	Always remove contaminated clothing immediately.
Inhalation	Not expected for this particular product, however always best avoiding proactive inhalation.
Ingestion	No instruction as this is a non-toxic product.
Skin Contact	No instruction as this is a non-toxic product.
Eye Contact	Wash immediately & thoroughly with clean tap water.
4.2 Most important symptoms & effects (Acute & Delayed)	None.
4.3 Indication of any immediate medical attention or special treatment required	Not Applicable.

SECTION 5: Fire Fighting Measures

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

SECTION 6: Accidental Release Measures

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

SECTION 7: Handling & Storage

7.1 Precautions for safe-handling	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.
7.2 Conditions for safe storage, including any incompatibilities	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.
7.3 Specific end use(s)	No Data.

SECTION 8: Exposure Controls & Personal Protection

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



Hygiene Measures	None.
Engineering Measures	None.

SECTION 9: Physical & Chemical Properties

9.1 Physical & Chemical Properties

Appearance	OILY LIQUID
Colour	CLEAR – LIGHT YELLOW
Odour	ODOURLESS
Relative Density	NO DATA.
Refractive Index	1.465 – 1.470
Flash Point (°C)	>280°C.
Melting Point (°C)	NOT APPLICABLE.
Boiling Point (°C)	>100°C.
Vapour Pressure	NO DATA.
Solubility in Water @ 20°C	INSOLUBLE.
9.2 Other Information	NO DATA.

SECTION 10: Stability & Reactivity

10.1 Reactivity	Not Applicable.
10.2 Chemical stability	Stable under suggested storage conditions (<20°C).
10.3 Possibility of hazardous reactions	No.
10.4 Conditions to avoid	Storage at high temperatures. Do not store above 20°C.
10.5 Incompatible materials	Concentrated acids, alkalis & oxidising agents.
10.6 Hazardous decomposition products	This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke.



SECTION 11: Toxicological Information

11.1

Toxicological effects

Acute Toxicity	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).
Skin irritation	Not Applicable.
Eye damage or irritation	Not Applicable.
Respiratory or skin sensitivity	Not Applicable.
Germ cell mutagenicity	Not Applicable.
Carcinogenicity	Not Applicable.
Reproductive toxicity	Not Applicable.
STOT – single exposure	Not Applicable.
STOT – repeated exposure	Not Applicable.
Aspiration hazard	Not Applicable.
Other information	Not Applicable.

SECTION 12: Ecological Information

12.1 Toxicity	Low - None.
12.2 Persistence & degradability	>90% (OECD)
12.3 Bio- accumulative potential	None.
12.4 Mobility in soil	Low – None.
12.5 Results of PBT & VPVB assessment	Not Available.
12.6 Other adverse effects	None.

SECTION 13: Disposal Information

13.1

Waste treatment methods

Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with local & national waste regulations.

SECTION 14: Transport Information

14.1

Transport Information

Warning icon	Road (ADR), Rail (RID), Sea (IMDG) and Air (ICAO), transport not restricted in drums or food tankers.
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Shipping Name	Not Applicable.
UN Number (Road)	Not Applicable.
ADR Class	Not Applicable.
Hazard Number (ADR)	Not Applicable.
Hazchem Code	Not Applicable.
UN Number (Sea)	Not Applicable.
IMDG Class	Not Applicable.
IMDG Pack GR.	Not Applicable.
EMS	Not Applicable.
UN Number (Air)	Not Applicable.
Air Class	Not Applicable.
Air Pack GR.	Not Applicable.

SECTION 15: Regulatory Information

15.1 Product specific safety, health & environmental regulations & legislation	
EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the council of 18 th 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).
Statutory Instruments	The Chemicals (Hazard Information & Packaging for Supply Regulations 2009 (S.I.2009 No 716).
Approved Code of Practice	Classification & labelling of substances & preparations dangerous for supply. Safety data sheets for substances & preparations.
Guidance Notes	Workplace exposure limits EH40. CHIP for everyone HSG 108.
15.2 Chemical Safety Assessment	Assessment has not been carried out as this is a non-hazardous material according to article 31 of REACH 1907/2006.

SECTION 16: Other Information

Allergens:	Nut/ Nut Oil
Training Instructions: Refer to possible hazard before use of this product.	
Abbreviations & Acronyms:	
MSDS	Material Safety Data Sheet.

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	INCI	International Nomenclature of Cosmetic Ingredients.
	CAS	Chemical Abstract Service.
	IMDG	International Maritime code for Dangerous Goods.
	ADR	Accord European sur le transport des marchandises Dangereuses par Route (European Agreement concerning the international Carriage of Dangerous goods by Road).
	RID	International Carriage of Dangerous Goods by Rail.
	ICAO	International Civil Aviation Organization.
	ADN	International Carriage of Dangerous Goods by Inland Waterways.
	GHS	Globally Harmonized System of classification & labelling of chemicals.
	Trem Card	Transport Emergency Card.
	STOT	Specific Target Organ Toxicity.

Documentation Revision

Date	Change Description
10 th April 2018	Data Launch
November 2020	Review
January 2023	Review



SPECIFICATION SHEET

PRODUCT NAME: MACADAMIA NUT OIL, REFINED

PRODUCT INCI: MACADAMIA INTEGRIFOLIA SEED OIL

CAS NUMBER: 438545-25-6; 159518-86-2

EINECS NUMBER: NOT LISTED

MANUFACTURING METHOD: EXPELLER PRESSED & REFINED

SHELF LIFE: 18 MONTHS

DOCUMENTATION REVIEWED: 2021

ANALYTICAL DETAILS	RANGE %
APPEARANCE	CLEAR - LIGHT YELLOW OILY LIQUID
COLOUR LOVIBOND (5 1/4" CELL)	<20Y, <2.0R
ODOUR	ODOURLESS
SPECIFIC GRAVITY @ 20°C	0.910 – 0.930
REFRACTIVE INDEX @ 20°C	1.465 – 1.470
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C18:2	LINOLEIC	3.0 – 7.0
C18:3	LINOLENIC	< 3.0
C20:0	ARACHIDIC	< 5.0
C20:1	EICOSANOIC	< 3.0
C22:0	BEHENIC	< 2.0
C24:0	LIGNOCERIC	<2.0

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Vegetarian & Vegan Suitability Statement

PRODUCT NAME: Macadamia Oil

Ekokoza s.r.o. 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.

20-04-2021