



## Certificate of Analysis

Product Name	Pistachio Nut Oil, Refined
Inci Name	Pistacia Vera Seed Oil
EINECS Number	290-173-0
Cas Number	90082-81-8

Best Before Date	January 2021
Batch Number	4349607

Parameter	Result
Appearance	Clear, light yellow liquid
Odour	Almost odourless
Peroxide Value (meq O <sub>2</sub> / kg)	0.5
Free Fatty Acid ( % as oleic)	0.1
Refractive Index @ 20°C	1.469
Specific Gravity @ 20°C	0.915
Palmitic Acid : C16:0	10.9
Palmitoleic Acid : C16:1	1
Stearic Acid : C18:0	2
Oleic Acid : C18:1	52.8
Linoleic Acid : C18:2	31
Alpha Linolenic Acid : C18:3	0.5
Iodine Value	107
Colour (Lovibond)	13y, 1.3r
Saponification Value	191



### Allergen Statement

Product: Pistachio Oil, RBDW

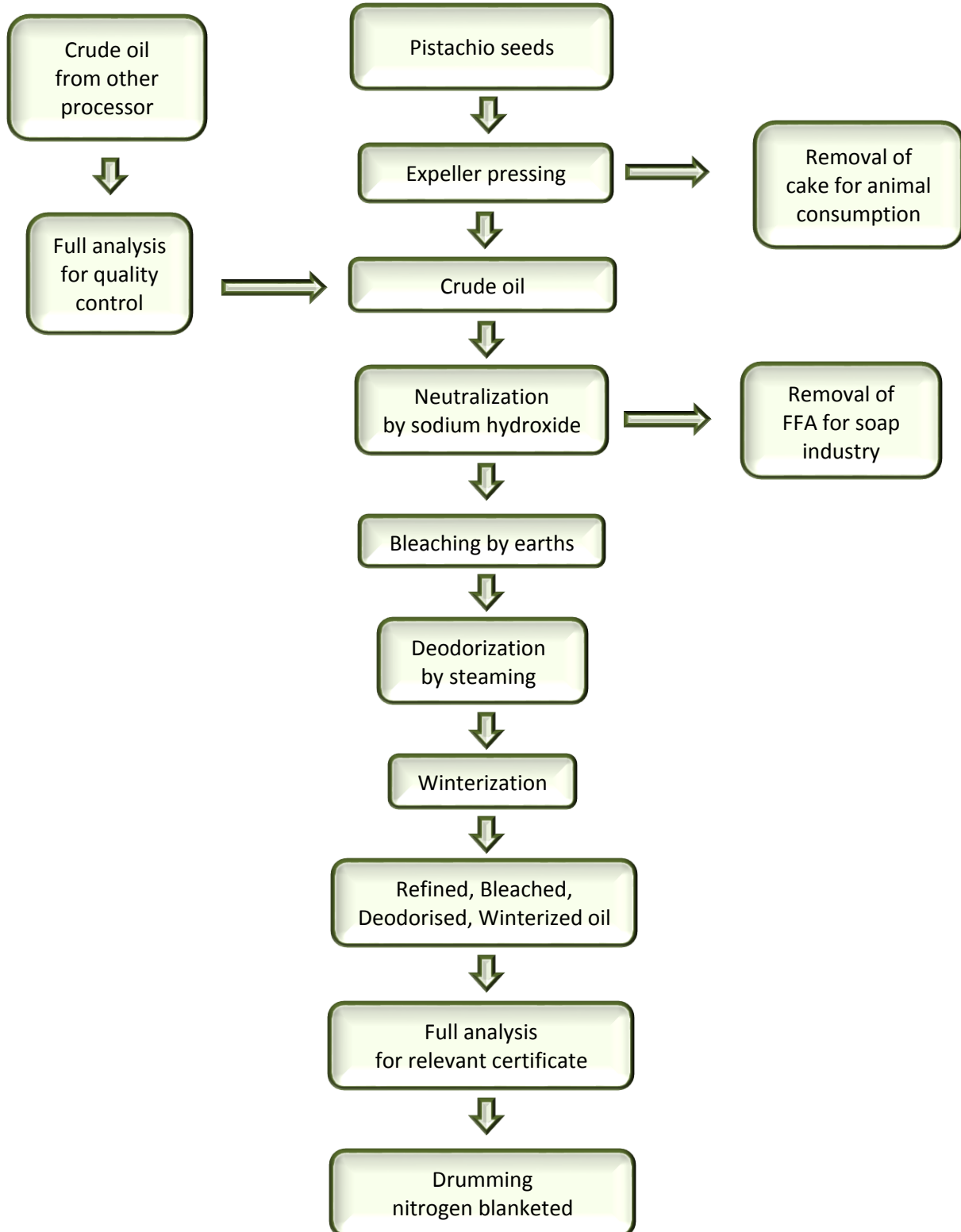
INCI Name: Pistacia Vera Seed Oil

#### Cosmetic Allergens

From The 7th Amendment to the Cosmetic Directive of the European Union (EU) – Annex III 26  
Fragrance Allergens

<u>Annex III Ref:</u>	<u>Material:</u>	<u>CAS No:</u>	<u>Total Allergen Inclusion Level (%)</u>
67	AMYL CINNAMAL	122-40-7	0
68	BENZYL ALCOHOL	100-51-6	0
69	CINNAMYL ALCOHOL	104-54-1	0
70	CITRAL	5392-40-5	0
71	EUGENOL	97-53-0	0
72	HYDROXY-CITRONELLAL	107-75-5	0
73	ISOEUGENOL	97-54-1	0
74	AMYL CINNAMYL ALCOHOL	101-85-9	0
75	BENZYL SALICYLATE	118-58-1	0
76	CINNAMAL	104-55-2	0
77	COUMARIN	91-64-5	0
78	GERANIOL	106-24-1	0
79	HYDROXY-METHYLPENTYL CYCLOHEXENECARBOXALDEHYDE	31906-04-4	0
80	ANISE ALCOHOL	105-13-5	0
81	BENZYL CINNAMATE	103-41-3	0
82	FARNESOL	4602-84-0	0
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0
84	LINALOOL	78-70-6	0
85	BENZYL BENZOATE	120-51-4	0
86	CITRONELLOL	106-22-9	0
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0
88	LIMONENE	5989-27-5	0
89	METHYL HEPTIN CARBONATE	111-12-6	0
90	ALPHA-ISOMETHYL IONONE	127-51-5	0
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0

## Manufacturing Flow Chart Pistachio Oil





**GMO – Pistachio Nut Refined Oil R00330**

To Whom It May Concern

We can confirm that the Pistachio Nut Refined Oil (Pistacia Vera Seed Oil) Madar Corporation Limited is not produced from a raw material that has been genetically modified.



## IFRA Conformity Certificate

<b>Internal Code</b>	<b>R00330</b>
<b>Product Name</b>	Pistachio Oil, RBDW
<b>INCI</b>	Pistacia Vera Seed Oil
<b>CAS Number</b>	90082-81-8
<b>EINECS Number</b>	290-173-0

### Product Statement

We hereby certify that the above named product does not include any of the components listed in the 48th Amendment of the IFRA Code of Practice. Therefore its use is not restricted.

It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.

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.



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

**1.1 Product Identifier**

Product Name	Pistachio Nut Oil, RBDW				
Biological Definition	Naturally occurring vegetable oil obtained from the ripe seed of Pistacia vera.				
INCI Name	Pistacia Vera Seed Oil				
Synonyms & Trade Names	Pistachio Nut Oil				
Internal Product Code	OVPIST				
CAS-No	90082-81-8	EC No.	290-173-0	EINECS No.	290-173-0

**1.2 Details of the supplier of the safety data sheet**

Company Identification	<b>MADAR Corporation Ltd.</b> 19 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA
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**1.3 Details of the supplier of the safety data sheet**

Emergency Contact	<b>Tel: 01425 655555</b>
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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification (67/548/EEC)	Not dangerous according to REACH Regulation 1907/2006
Classification (EU 1272/2008)	The product does not belong to any list of substances supposedly hazardous to human or animal health according to EU Regulation 1272/2008 and further amendments, nor to those having recognised exposition limits. Care should be taken when handling hot oil as it may constitute a burn hazard. Spills 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
Hazard Statements:	None
Precautionary Statements:	None
Supplementary Precautionary Statements:	None

Risk phrases and Safety phrases in full refer to *Section 16 – Other Information*

BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: [technical@madarcorporation.co.uk](mailto:technical@madarcorporation.co.uk)



2.3 Other hazards	
Adverse physio-chemical properties	None
Adverse effects on human health	None

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

N/A

**3.2 Mixtures**

EU INCI	US INCI
N/A	N/A

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General Information	Remove contaminated soaked clothing immediately
Inhalation	Not expected with this type of product
Ingestion	No measure, being a non-toxic product
Skin Contact	No measure, being a non-toxic product
Eye Contact	Wash thoroughly with running tap water

**4.2 Most important symptoms and effects, both acute and delayed**

N/A

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

N/A

**SECTION 5: Fire fighting measures**

**5.1 Extinguishing Media**

Foam, CO2, Dry chemical powder.

**5.2 Special hazards arising from the substance or mixture.**

The product may only form ignitable mixtures or burn above the flash point. Dangerous combustion products include smoke and 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**

No special precautions required.

**6.2 Environmental precautions**

No special precautions required.

**6.3 Methods and material for containment and cleaning up**

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 References to other sections.**

Please refer to *Section 8 - Exposure controls/personal protection* for further information on personal precautions  
Please refer to *Section 13 - Disposal Considerations* for further information on waste treatment.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Keep containers sealed when not in use. Prevent spills and leaks to avoid slip hazard. Provide suitable mechanical equipment for the safe handling of drums and heavy packages.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep containers out of direct sunlight in cool dry conditions at a temperature not exceeding 25°C. Keep in the original containers or in plastic or plastic-coated containers. Limit oxygenation (contact with air).

### 7.3 Specific end use(s)

N/A

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

None

### 8.2 Exposure Controls

Eye protection	Not applicable
Hand protection	Not applicable
Respiratory Equipment	Not applicable
Hygiene Measures	Not applicable
Engineering Measures	Not applicable

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Clear, light yellow liquid
Colour	Light yellow $\leq 30 Y$ , 2.5 R
Odour	Mild, characteristic of product
Relative Density	0.910 - 0.920 gr/cm <sup>3</sup> at 20°C
Flash Point (°C)	N/A
Refractive Index	1.465 – 1.475
Melting Point (°C)	N/A
Boiling Point (°C)	N/A
Vapour Pressure	N/A
Solubility in Water @20°C	N/A
Auto-ignition temperature (°C)	N/A

### 9.2 Other information

N/A





## SECTION 10: Stability and reactivity

### 10.1 Reactivity

N/A

### 10.2 Chemical stability

Stable under normal temperature conditions.

### 10.3 Possibility of hazardous reactions

None

### 10.4 Conditions to avoid

High temperature warehousing, heating at more than 60°C (for cosmetic use)

### 10.5 Incompatible materials

Concentrated acids, alkalis and oxidising agents.

### 10.6 Hazardous decomposition products

The product does not decompose under normal conditions. In fire conditions a complex mixture of irritating fumes and smoke will be evolved.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects.

Acute toxicity:	Non-toxic product, pharmaceutical and cosmetic use. Doesn't have any microbiological specification as it is sterilized in the refining process. Doesn't contain impurities. Not included in the list of substances prohibited in cosmetic products or subjected to restrictions, doesn't contain colorants, preservatives or UV filters (Annex II - VI of EU Regulation 1223/2009).
Skin corrosion / irritation:	N/A
Serious eye damage/irritation:	N/A
Respiratory or skin sensitisation:	N/A
Germ cell mutagenicity:	N/A
Carcinogenicity:	N/A
Reproductive toxicity:	N/A
STOT-single exposure:	N/A
STOT-repeated exposure:	N/A
Aspiration hazard:	N/A
Other information:	N/A

**SECTION 12: Ecological information****12.1 Toxicity**

Low

**12.2 Persistence and degradability**

&gt; 90% (OECD)

**12.3 Bio-accumulative potential**

None

**12.4 Mobility in soil**

Low

**12.5 Results of PBT and VPVB assessment**

N/A

**12.6 Other adverse effects**

N/A

**SECTION 13: Disposal considerations****13.1 Waste Treatment Methods**

When possible recover spilled product. When product must be discarded, do so into an authorised dump or recycling service station. Act in accordance with local and national regulations.

**SECTION 14: Transport information**

Warning Icon	Road (ADR), Rail (RID), Sea (IMDG) and Air (ICAO) transport not restricted in drums or food tanks.
Proper Shipping Name	None
UN No. Road	None
ADR Class	None
Hazard No (ADR)	None
Hazchem Code	None
UN No. SEA	None
IMDG Class	None
IMDG Pack Gr.	None
EMS	None
UN No. AIR	None
Air Class	None
Air Pack Gr.	None

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 <sup>th</sup> Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

**15.2 Chemical safety assessment**

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

**SECTION 16: Other information**

Training instructions: Refer to possible hazard before use of this product.

**Abbreviations and acronyms:**

MSDS	Material Safety Data Sheet
INCI	International Nomenclature of Cosmetic Ingredients
CAS	Chemical Abstract Service
IMDG	International Maritime Code for Dangerous Goods
ADR	Accord européen 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 and Labelling of Chemicals
Trem Card	Transport Emergency Card
STOT	Specific Target Organ Toxicity
N/A	Not Available
Risk Phrases in full:	N/A
Safety Phrases in full:	N/A

Complies with REACH guidance for SDS as circulated by ECHA 2011.

**Disclaimer**

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**Revisions in this document**

Date (DD-MM-YYYY)	Change	Revision Number
15/07/2015	New Issue	0



## MATERIAL SPECIFICATION

**Description:** Pistachio Oil, RBDW

**INCI Name:** Pistacia Vera Seed Oil

**CAS No:** 90082-81-8

**EINECS No:** 290-173-0

ANALYTICAL DETAILS	RANGE
APPEARANCE @ 20°C	Clear light yellow liquid
TASTE	Mild, characteristic of product
ODOUR	Mild, characteristic of product
COLOUR (LOVIBOND 5.25" CELL)	≤ 30 Y, 2.5 R
RELATIVE DENSITY @ 20°C (g/cm <sup>3</sup> )	0.910 – 0.920
REFRACTIVE INDEX @ 20°C (nr)	1.465 – 1.475
FREE FATTY ACID (% AS OLEIC)	≤ 2.0
IODINE VALUE (grI <sub>2</sub> / 100gr)	90 – 120
PEROXIDE VALUE (Meq O <sub>2</sub> / kg)	≤ 20.0
ACID VALUE	≤ 4.0

	ACID NAME	C-CHAIN	RANGE
<b>FATTY ACID PROFILE (MAJOR ACIDS)</b>	PALMITIC	C16:0	9.0 – 20.0
	PALMITOLEIC	C16:1	≤ 2.0
	STEARIC	C18:0	1.0 – 3.0
	OLEIC	C18:1	40.0 – 60.0
	LINOLEIC	C18:2	28.0 – 38.0
	ALPHA LINOLENIC	C18:3	≤ 2.0
	OTHERS		≤ 2.0

Shelf Life: Minimum 18 Months from the date of manufacture

Revised: 04/01/2016



**Date:** 10/01/2019

**Re: Vegan – Pistachio Nut Refined Oil**

We can confirm that the above named oil supplied by the MADAR Corporation Limited is suitable for Vegans.