



CERTIFICATE OF ANALYSIS
ORGANIC AVOCADO OIL VIRGIN

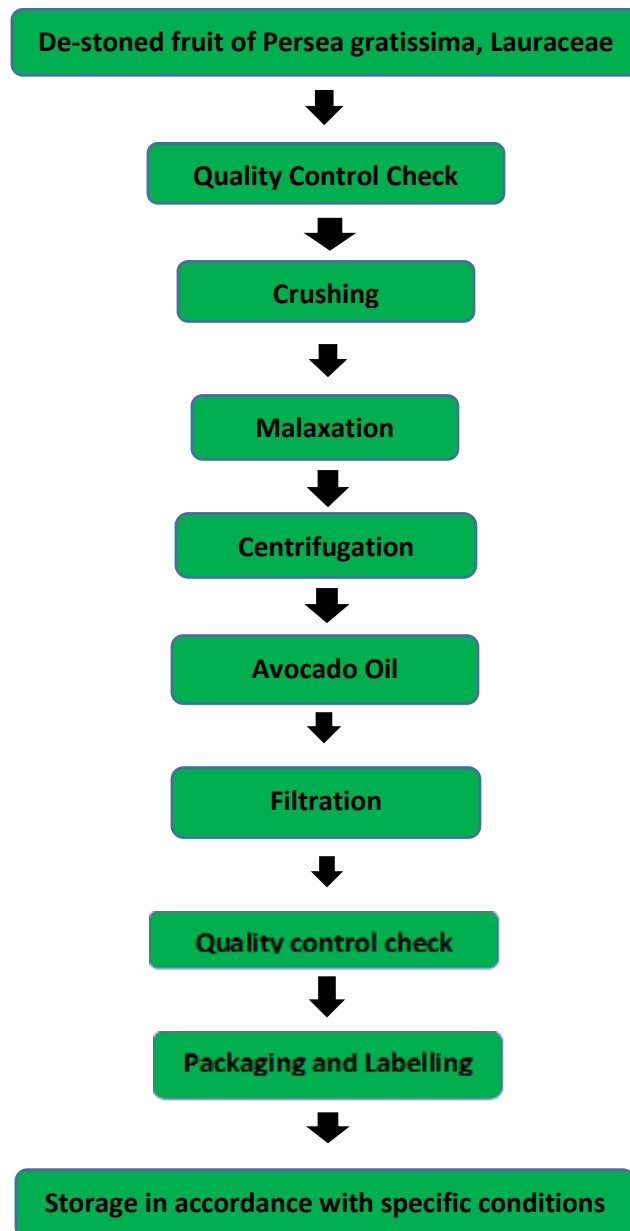
Batch No: 4350111
Best Before End: February 2021

Description: A green to greenish yellow liquid.
Odour: Characteristic.

TEST	SPECIFICATION	ANALYSIS (ex factory)
Acid Value (mgKOH/g)	4.0% maximum	0.3
Iodine Value (mg/g)	75 - 95	83.56
Peroxide Value (meq KOH/kg)	10.0 maximum	3.3
Refractive Index @ 20°C	1.468 – 1.476	1.469
Specific Gravity @ 20°C	0.912 - 0.923	0.916
Moisture Content (%)	0.1 maximum	Pass

Manufacturing Flow Chart

Product Name	Avocado Virgin Organic
Date	19.05.2017





MATERIAL SAFETY DATA SHEET

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

Product Name	Organic Avocado Oil Virgin				
Biological Definition	The oil obtained from pressing the fruits of <i>Persea gratissima</i> Gaertn. (syn <i>Persea americana</i> Mill.)				
INCI Name	Persea gratissima oil				
Synonyms & Trade Names	Alligator pear oil				
Supplier	MADAR Corporation Limited, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA Approved Sellers - Mystic Moments, New Directions, World of Moulds				
Reach Registration Number <small>(According to EU Reg 1907/2006)</small>	Exempt according to article 2 (7) REACH Annex V				
FEMA No.	N/A	FDA No.	N/A	CoE No.	N/A
CAS-No	8024-32-6	EC No.	232-428-0	EINECS No.	232-428-0

02. HAZARDS IDENTIFICATION

Classification (1999/45)	Not classed as a hazardous substance.
Classification (EC 1272/2008)	Not classed as a hazardous substance.
Label in accordance with (EC) No 1272/2008	No labelling required
Signal Word	None
Contains	Contains no hazardous substances. Avocado oil is pressed from the fruit pulp and is composed primarily of oleic acid based glycerides & some 10% of unsaponifiable compounds, such as sterols and volatile acids.
Hazard Statements	None
Precautionary Statements	None
Supplementary Precautionary Statements	None
PBT or vPvB according to Annex XIII	No
Adverse physio-chemical properties	Oil is flammable but of low risk.
Adverse effects on human health	No symptoms known.

03. COMPOSITION/INFORMATION ON INGREDIENTS

100% *Persea gratissima* oil - not classed as a hazardous product



MATERIAL SAFETY DATA SHEET

04. FIRST AID MEASURES

Inhalation	Move the exposed person to fresh air at once. Seek medical attention if any discomfort continues.
Ingestion	Rinse mouth with water. Seek medical attention if any discomfort occurs.
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Seek medical attention immediately. Continue to rinse.

05. FIRE-FIGHTING MEASURES

Extinguishing Media	Extinguishing media: Carbon dioxide (CO ₂). Dry Chemical Powder. Foam. Unsuitable extinguishing media: do not use direct water jet on burning material.
Special Fire Fighting Procedures	Closed containers may build up pressure when exposed to heat and should be cooled with water spray. Wear protective clothing. Avoid inhalation of vapours
Specific Hazards	No specific hazards

06. ACCIDENTAL RELEASE MEASURES


Personal Precautions	Use protective gloves, goggles and suitable protective clothing. Remove sources of ignition, provide adequate ventilation. Avoid contact with skin and eyes.
Environmental Precautions	Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority guidelines
Spill Clean Up Methods	Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations. If spillage on water occurs; Remove from the surface with suitable adsorbent material. Disposal according to UK/EU Environmental regulations

07. HANDLING AND STORAGE

Usage Precautions	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
Storage Precautions	Store in tightly closed original container, in a cool (max room temperature) dry & ventilated area away from heat sources. Protect from freezing and direct sunlight. Keep air contact to a minimum. Intrusion into the soil to be avoided.

MATERIAL SAFETY DATA SHEET

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment	
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Use adequate ventilation, especially when handling hot oil.
Hand Protection	Use chemically resistant gloves if there is a risk of direct contact or splashing.
Eye Protection	Wear safety goggles or face shield if risk of splashing.
Other Protection	Slip proof shoes may be worn in event of spillages.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Wear appropriate clothing to prevent possibility of skin contact.
Skin Protection	Wear appropriate clothing to prevent possibility of skin contact.
Environmental Exposure Controls	Avoid discharging into drainage water.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, light yellow to yellow-green liquid
Colour	Light yellow to yellow-green
Odour	Characteristic
Relative Density	0.911 - 0.924 @ 20°C
Flash Point (°C)	>200°C
Refractive Index	1.468 - 1.476 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water. Soluble in vegetable oils.
Auto-ignition temperature (°C)	No additional data available.

MATERIAL SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

Reactivity	Generally stable. It presents no significant reactivity hazards, by itself or in contact with water
Stability	Stable under the recommended handling and storage conditions.
Conditions to Avoid	Avoid storage temperatures above 25°C
Materials to Avoid	Avoid contact with strong acids, alkalis and oxidising agents.
Hazardous Decomposition Products	Does not decompose at proper handling. Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed

11. TOXOLOGICAL INFORMATION

Acute Toxicity	No additional data available
Skin corrosion / irritation	No additional data available
Serious eye damage / irritation	No additional data available
Respiratory or skin sensitisation	No additional data available
Germ Cell Mutagenicity	No additional data available
Carcinogenicity	No additional data available
Reproductive toxicity	No additional data available
STOT-single exposure	No additional data available
STOT-repeated exposure	No additional data available
Aspiration hazard	No additional data available
Photo-toxicity	Not photo toxic



MATERIAL SAFETY DATA SHEET

Other Information	None
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12. ECOLOGICAL INFORMATION

Ecotoxicity	No additional data available
Mobility	No additional data available
Persistence & Biodegradability	Expected to be fully biodegradable.
Bioaccumulation Potential	Possible
PBT Assessment Results	No additional data available
Precautions	Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Collect and dispose of waste product in accordance with local authority guidelines. Product remainders should not intrude soil or waters.
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14. TRANSPORT INFORMATION

Proper Shipping Name	No additional data available
UN No. Road	Not applicable - Non-hazardous product
UN No. SEA	Not applicable - Non-hazardous product
UN No. AIR	Not applicable - Non-hazardous product
Transport hazard class(es)	No additional data available
Packing group	No additional data available
Environmental hazards	No hazard label necessary – non-hazardous product.



MATERIAL SAFETY DATA SHEET

Special precautions for user	See sections 6 - 8
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15. REGULATORY INFORMATION

EU Directives	EU Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
Statutory Instruments	Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Approved Code of Practice	Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance Notes	Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

16. OTHER INFORMATION

Revision Date	09.09.2015
Rev No/Repl, SDS Generated	3
Hazard Statements in Full	None - non-hazardous product

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.



PRODUCT SPECIFICATION

Product Name	Organic Avocado Oil Virgin				
Date	09/09/2015	Product Code	OVCAVOC	Rev	5
Description	Oil obtained from pressing the fruits of <i>Persea gratissima</i> Gaertn. (Syn <i>Persea Americana</i> Mill). It consists principally of the glycerides of fatty acids.				
Appearance	Clear liquid yellow to green oil				
Odour	Characteristic				
Customs Tariff Number	15 15 9059				
Origin	Kenya				
Application	Food and Cosmetics				
Function	Ingredient and cooking oil, Skin conditioning				
REACH	Exempt under article 2 (7) REACH Annex V				
INCI Name	Persea gratissima Oil				
CAS Number	8024-32-6	EC Number	232-428-0		

TEST SPECIFICATION

Analytical Test	Specification Range
Acid Value (mgKOH/g)	≤4.0
Relative Density	0.912 - 0.923 @ 20°C
Flash Point (°C)	>200
Refractive Index	1.468 - 1.476 @ 20°C
Iodine Value (mg/g)	75 – 95
Peroxide Value (meqKOH/kg Oil)	10.0 maximum
Saponification Value (mgKOH/g)	187 – 197
Unsaponifiable Matter (%)	≤2.0
Moisture Content (%)	0.1 maximum
Fatty Acid Profile (%)	
<C16:0	≤2.0
C16:0 Palmitic Acid	5.0 – 25.0
C16:1 Palmitoleic Acid	1.0 – 12.0
C18:0 Stearic Acid	≤3.0
C18:1 Oleic Acid	50.0 – 74.0
C18:2 Linoleic Acid	6.0 – 20.0
C18:3 Alpha Linolenic Acid	≤3.0

PRODUCT SPECIFICATION

Nutritional Information	(g/100g)	(g/100ml)
Energy Value (kJ/kcal)	3700kJ / 900kcal	3382kJ / 823 kcal
Fat	100	91.4
- Of which saturated fatty acids	20.0	8.3
- Of which monounsaturated fatty acids	68.9	63.0
- Of which polyunsaturated fatty acids	11.6	10.6
Carbohydrates	0	0
- Of which sugars	0	0
Protein (N x 6.25)	0	0
Salt	0	0

OTHER INFORMATION

Hass or Fuerte Avocados used in the production of the oil. The whole fruit including the stone is used, crushed by the hammer mill then water added and separated by centrifuge into Oil, Water and residues. Another method is to peel the avocados and remove the stone, pressing the green pulp. The quality of this oil is lighter in colour and more expensive.

Material is suitable for Vegetarians, Vegans, Coeliac, Halal and Kosher diets. It is not irradiated or genetically modified and does not contain any allergens.

Material complies with EU Heavy metal regulation EC/629/2008 and is not tested on animals.

STORAGE

Store in original, full, tightly sealed containers, in a cool (ambient. 5-22°C) and well-ventilated environment. Keep away from sources of ignition and oxidation (air, heat and light).

STABILITY

Stable under recommended handling and storage conditions. Becomes rancid on extended exposure to air. Recommend re-test after 12 months storage.

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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.