

CERTIFICATE OF ANALYSIS

Product: Safflower
 Batch Number: Organic 4420406
 Best Before End: January 2023

Appearance: A clear liquid, pale yellow to yellow
 Odour: Characteristic

TEST	SPECIFICATION	ANALYSIS
Specific Gravity @ 20°C (g/ml)	0.918 – 0.924	0.922
Refractive Index @ 20°C	1.473 – 1.479	1.475
Acid Value mgKOH/g	0.6 maximum	0.12
Iodine Value mg/g	135 - 150	141.8
Peroxide Value (meq O ₂ /kg)	10.0 maximum	Complies
Unsaponifiable Matter	2.0 maximum	Complies
Saponification Value	188 - 194	192.2

FATTY ACID COMPOSITION (%)		
C16:0 Palmitic Acid	4.0 – 10.0	6.8
C18:0 Stearic Acid	1.0 – 5.0	2.6
C18:1 Oleic Acid	8.0 – 21.0	13.8
C18:2 Linoleic Acid	68.0 – 83.0	74.9
C18:3 Alpha Linolenic Acid	0.5 maximum	0.1
C20:0 Arachidic Acid	0.5 maximum	0.3



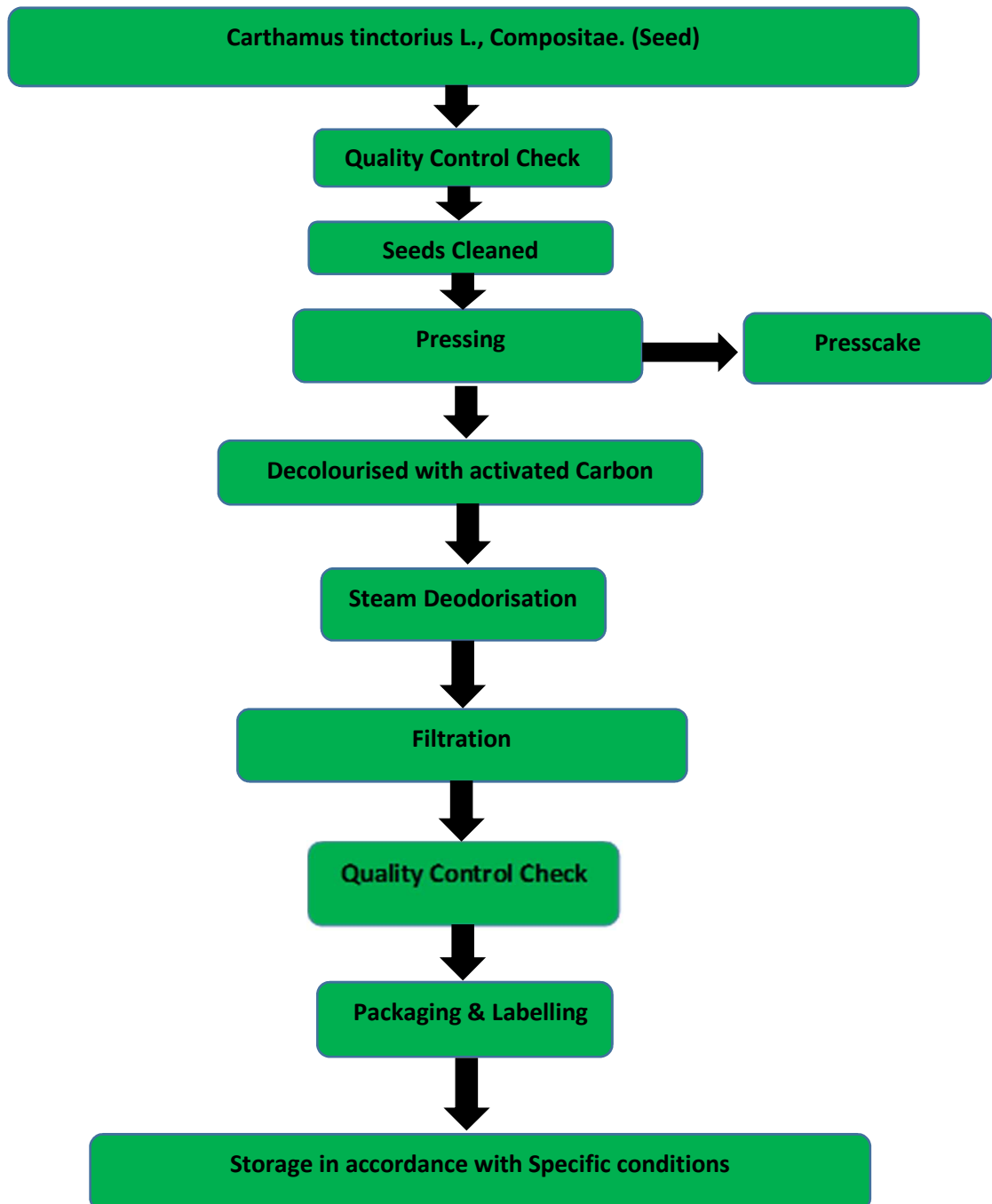
ALLERGENS DECLARATION

Product Name	Organic Safflower Oil Refined				
INCI Name	Carthamus Tinctorius seed Oil				
Date	25/08/2016	Product Code	OVCSAFF	Revision	1

Material	CAS Number	Cosmetic Allergens Inclusion (%)
AMYL CINNAMAL	122-40-7	-
BENZYL ALCOHOL	100-51-6	-
CINNAMYL ALCOHOL	104-54-1	-
CITRAL	5392-40-5	-
EUGENOL	97-53-0	-
HYDROXYCITRONELLAL	107-75-5	-
ISO EUGENOL	97-54-1	-
AMYL CINNAMYL ALCOHOL	101-85-9	-
BENZYL SALICYLATE	118-58-1	-
CINNAMAL	104-55-2	-
COUMARIN	91-64-5	-
GERANIOL	106-24-1	-
HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	31906-04-4	-
ANISE ALCOHOL	105-13-5	-
BENZYL CINNAMATE	103-41-3	-
FARNESOL	4602-84-0	-
BUTYLPHENYLMETHYLPROPIONAL	80-54-6	-
LINALOOL	78-70-6	-
BENZYL BENZOATE	120-51-4	-
CITRONELLOL	106-22-9	-
HEXYL CINNAMAL	101-86-0	-
LIMONENE	5989-27-5	-
METHYL 2-OCTYNOATE	111-12-6	-
ALPHA-ISOMETHYLIONONE	127-51-5	-
EVERNIA PRUNASTRI EXTRACT	90028-68-5	-
EVERNIA FURFURACEA EXTRACT	90028-67-4	-

Manufacturing Flow Chart

Product Name	Organic Safflower Oil
Date	01.11.2016





Document Date: **March 2018**

STATEMENT

We hereby certify that Organic Safflower Oil, 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.

SAFETY DATA SHEET

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

1:1-Product Identifiers:					
Product name		Organic Safflower Oil Refined (High Linoleic)			
Biological Definition		Carthamus Tinctorius Seed Oil is the oily liquid obtained from the seeds of Safflower, Carthamus tinctorius L., Compositae. It consists principally of the triglycerides of linoleic acid			
INCI Name		Carthamus Tinctorius Seed Oil			
Synonyms & Trade Names		-			
Reach Registration Number		-			
FEMA No.	-	FDA No.	-	CoE No.	-
CAS-No	8001-23-8	EC No.	232-276-5	EINECS No.	232-276-5

1:2 – Relevant Identified Uses of the substance or mixture and uses advised against:	
Identified Uses	Component of; Cosmetic products, Pharmaceutical products and Technical applications.
1:3 – Details of the supplier of the Safety data sheets.	
Company Name	MADAR Corporation Limited, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA Email: technical@madarcorporation.co.uk Tel: 01425 655555
Approved Sellers	Cosmetic Butters, Mystic Moments, New Directions, World of Moulds
1:4 – Emergency Telephone number	

02. HAZARDS IDENTIFICATION

2:1 Classification of the substance or mixture	
Classification (1999/45)	Not classed as a hazardous substance
Classification (EC 1272/2008)	Not classed as a hazardous substance
2.2 – Label Elements	
Label Elements in accordance with (EC) No 1272/2008	None
2:3 - Other hazards	
Signal Word	None

MATERIAL SAFETY DATA SHEET

Contains	No hazardous substances
Hazard Statements	None
Precautionary Statements	None
Supplementary Precautionary Statements	None
PBT or vPvB according to Annex XIII	No
Adverse physio-chemical properties	None
Adverse effects on human health	None

03. COMPOSITION/INFORMATION ON INGREDIENTS

3:1 - Substances	
Substances	100% Carthamus Tinctorius Seed Oil
3:2 - Mixtures	
Mixtures	Not applicable

04. FIRST AID MEASURES

4:1 – Description of first aid measures	
General Advice	No additional data available
Inhalation	None
Ingestion	None
Skin Contact	Remove contaminated clothes. Wash skin with soap & water, Get medical attention if any discomfort continues.
Eye Contact	Rinse immediately with plenty of water Remove any contact lenses and open eyelids, continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues
4:2 – Most important symptoms and effects, both acute and delayed	
Symptoms and effects	No symptoms known

MATERIAL SAFETY DATA SHEET

4:3 – Indication of any immediate medical attention and special treatment needed

Special requirements	None
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05. FIRE-FIGHTING MEASURES

5:1 - Extinguishing Media

Suitable extinguishing Media	Foam, Carbon dioxide or dry powder.
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Unsuitable extinguishing Media-DO NOT USE	Full water jet.
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5:2 - Special Hazards arising from substance or mixture

Specific hazards	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 increase the hazard. Ignition hazard at welding at the empty container. Dangerous combustion residues: smoke, carbon monoxide, carbon dioxide
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5:3 – Advice for firefighters

Special firefighting procedures/ protective actions.	In case of fire use respirator
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06. ACCIDENTAL RELEASE MEASURES

6:1 - Personal Precautions, protective equipment and emergency procedures.

Personal precautions	Remove sources of ignition, provide adequate ventilation, avoid contact with skin and avoid eye contact
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6:2 - Environmental Precautions

Environmental Precautions	Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority guidelines.
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6:3 – Methods and materials for containment and cleaning up

Spill Clean Up Methods	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
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MATERIAL SAFETY DATA SHEET

	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	
Reference to other sections	None

07. HANDLING AND STORAGE

7:1 – Precautions for safe handling	
Usage precautions	Keep containers leak proof closed and dry. Protect against sun/light. Prevent spills and leakages to avoid slip hazard.
7:2 – Conditions for safe Storage including any incompatibilities	
Storage Precautions	Intrusion into soil to be avoided. Store the product in cool (max. at room temperature) and well-ventilated environment and keep away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations.
Suitable Packaging	No additional data available
7:3 – Specific end use (s)	
End Uses	No additional data available

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8:1 – Control parameters	
Components with workplace control parameters	None
8:2 – Exposure controls	
Protective Equipment	No special measures required.
Process conditions	No special measures required.

MATERIAL SAFETY DATA SHEET

Engineering Measures	No special measures required.
Respiratory Equipment	No special measures required.
Hand Protection	No special measures required.
Eye Protection	No special measures required.
Other Protection	No special measures required.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal protection	Use personal protection according to Directive 89/686/EEC.
Skin protection	No special measures required.
Environmental exposure controls	Avoid discharging into drainage water.

09. PHYSICAL AND CHEMICAL PROPERTIES

9:1 - Information on basic physical and chemical properties.	
Appearance	Clear, light yellow liquid
Colour	Light yellow
Odour	Neutral
Relative Density	0.918 - 0.924 @ 20°C
Flash Point (°C)	>200
Refractive Index	1.473 - 1.479 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	>350
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water. Soluble in oil and ethanol.
Auto-ignition temperature (°C)	No additional data available.
9:2 - Other information	

MATERIAL SAFETY DATA SHEET

Other Information	No additional data available.
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10. STABILITY AND REACTIVITY

10:1- Reactivity	
Reactivity	Oxidation with atmospheric oxygen. Formation of free fatty acids.
10:2 - Chemical stability	
Stability	Chemically stable under the recommended handling and storage conditions
10:3 - Possibility of hazardous reactions	
Possible hazardous reactions	Reacts with oxidants
10:4 - Conditions to avoid	
Conditions to Avoid	Avoid heat, flames, sunlight and other sources of ignition
10:5 – Incompatible materials	
Incompatible materials	Avoid contact with strong oxidising agents
10:6 - Hazardous Decomposition Products	
Hazardous Decomposition Products	Product does not decompose at proper handling

11. TOXOLOGICAL INFORMATION

11:1 Information on toxicological effects	
Acute Toxicity	<p>In compliance with generally accepted uses and quantities are no negative impacts to be expected.</p> <p style="text-align: right;">LD50 oral: not determined LD50 dermal: not determined LC50: not determined</p> <p>Inhalation: There is no expected negative impact. Ingestion: There is no expected negative impact. Skin contact: There is no expected negative impact. Eye contact: There is no expected negative impact.</p>
Skin corrosion / irritation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.

MATERIAL SAFETY DATA SHEET

Serious eye damage / irritation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Respiratory or skin sensitisation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Germ Cell Mutagenicity	No additional data available
Carcinogenicity	No expected negative impact
Reproductive toxicity	No expected negative impact
STOT-single exposure	No additional data available
STOT-repeated exposure	No additional data available
Aspiration hazard	No additional data available
Photo-toxicity	No additional data available
Other Information	No additional data available

12. ECOLOGICAL INFORMATION

12:1- Toxicity	
Ecotoxicity	No additional data available
12:2 - Persistence & degradability	
Persistence & degradability	Biodegradable
12:3 - Bioaccumulative Potential	
Bioaccumulative Potential	Possible
12:4 – Mobility in soil	

MATERIAL SAFETY DATA SHEET

Mobility	No additional data available
12:5 – Results of PBT and vPvB assessment	
PBT Assessment Results	No additional data available
12:6 Other adverse effects	
Precautions	Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

13:1 Waste treatment methods	
Disposal Methods	Collect and dispose of waste product at an authorised disposal facility. Product remainders should not intrude soil or waters

14. TRANSPORT INFORMATION

Warning Icon	No additional data available
14:1 – UN Number	
UN No Road – ADR/RID/ADN	No additional data available
UN No Sea- IMDG	No additional data available
UN No Air – IATA	No additional data available
14:2 – UN proper shipping name	
Road – ADR/RID/ADN	No additional data available
Sea- IMDG	No additional data available
Air - IATA	No additional data available
14:3 – Transport Hazard class (es)	

MATERIAL SAFETY DATA SHEET

Road – ADR/RID/ADN	No additional data available
Sea- IMDG	No additional data available
Air- IATA	No additional data available
14:4 - Packaging group	
Road – ADR/RID/ADN	No additional data available
Sea- IMDG	No additional data available
Air - IATA	No additional data available
14:5 – Environmental hazard	
Environmentally hazardous substance/ marine pollutant.	No hazard label necessary – non hazardous product
14:6 - Special precautions for user	
Precautions	See sections 6-8
14:7 – Transport in bulk according to Annex II of MARPOL 73/79 and the IBC code	
	Not defined

15. REGULATORY INFORMATION

15:1 – Safety, health and environmental regulations/ legislation specific for the substance or mixture.	
EU Directives	<p>Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006</p> <p>Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),</p> <p>establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing</p> <p>Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No1488/94 as well as Council Directive 76/769/EEC and</p>

MATERIAL SAFETY DATA SHEET

	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	
Assessment information	A chemical assessment for this product has not been carried out.

16. OTHER INFORMATION

Revision Date	06.06.2016
Rev No/Repl, SDS Generated	1
Change Description	New MSDS to comply to supplier SDS
Changes made by	M Cole
Review Date	06.06.2018
Risk Phrases in Full	None
Hazard Statements in Full	None
Other Information	None

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	Safflower Oil Refined (High Linoleic) Organic				
Date	06/06/2016	Product Code	OVCSAFF	Rev	1
Reason for Revision	New supplier specification to start at version 1				

Description	Carthamus Tinctorius Seed Oil is the oily liquid obtained from the seeds of Safflower, <i>Carthamus tinctorius L., Compositae</i> . It consists principally of the triglycerides of linoleic acid.		
Appearance (20°C)	Light yellow liquid		
Odour	Neutral		
INCI Name	Carthamus Tinctorius Seed Oil		
CAS Number	8001-23-8	EC Number	232-276-5

TEST SPECIFICATION

Analytical Test	Specification Range
Acid Value(mg KOH/g)	≤0.6
Specific Gravity @ 20°C (g/ml)	0.918-0.924
Refractive index (20°C)	1.473-1.479
Iodine Value (mg/g)	135-150
Saponification Value mgKOH/g	188-194

TYPICAL FATTY ACID PROFILE

C14:0 Myristic Acid %	≤ 0.2
C16:0 Palmitic Acid %	4.0-10.0
C18:0 Stearic Acid %	1.0-5.0
C18:1 Oleic Acid %	8.0-21.0
C18:2 Linoleic Acid %	68.0-83.0
C18:3 Linolenic Acid %	≤ 0.5
C20:0 Arachidic Acid %	≤ 0.5
C20:1 Eicosenoic Acid %	≤ 0.5
C22:0 Behenic Acid %	≤ 1.0

STORAGE

Store product in full, tightly closed containers in a cool dry place away from heat and sunlight.

STABILITY

When stored for more than 24 months, quality should be checked before use.



Date: 15/01/2019

Re: Vegan – Safflower Organic Oil

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