

CERTIFICATE OF ANALYSIS

Product: Batch Number: Best Before End Safflower Organic 4437009 June 2023

Appearance: Odour:

A clear liquid, pale yellow to yellow 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	0.15
lodine Value mg/g	135 - 150	141.6
Peroxide Value (meq O ₂ /kg)	10.0 maximum	Complies
Unsaponifiable Matter	2.0 maximum	Complies
Saponification Value	188 - 194	192.1

FATTY ACID COMPOSITION (%)		
C16:0 Palmitic Acid	4.0 - 10.0	6.6
C18:0 Stearic Acid	1.0 – 5.0	2.5
C18:1 Oleic Acid	8.0 – 21.0	13.9
C18:2 Linoleic Acid	68.0 - 83.0	74.3
C18:3 Alpha Linolenic Acid	0.5 maximum	0.1
C20:0 Arachidic Acid	0.5 maximum	0.3

bíOrígins

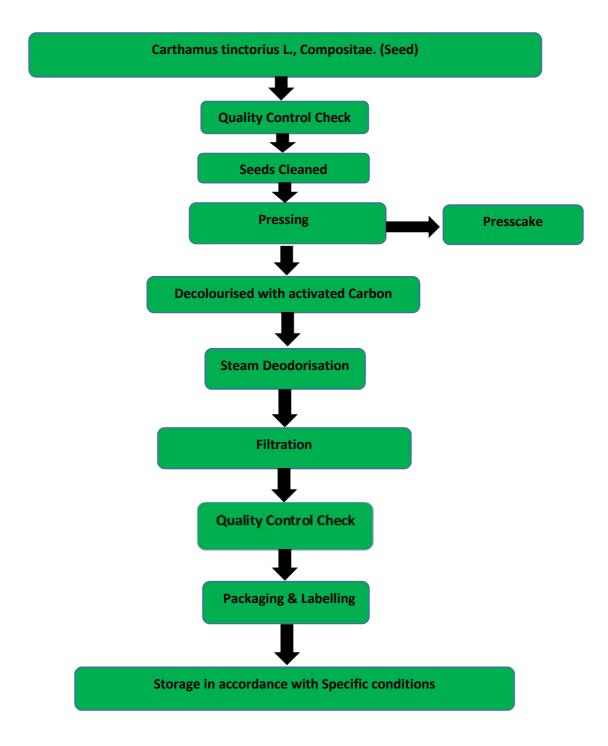
ALLERGENS DECLARATION

Product Na	me	Organic Safflower Oil Refined					
INCI Name		Carthamus Tinctorius seed Oil					
Date	25/08/2016	Product Code		OVCSAFF	Revision	1	
Material				CAS Number		smetic Allergens Inclusion (%)	
AMYL CINNA	MAL			122-40-7		-	
BENZYL ALCO	DHOL			100-51-6		-	
CINNAMYL A	LCOHOL			104-54-1	-		
CITRAL				5392-40-5		-	
EUGENOL				97-53-0		-	
HYDROXYCIT	RONELLAL			107-75-5		-	
ISO EUGENO	L			97-54-1		-	
AMYL CINNA	MYL ALCOHOL			101-85-9		-	
BENZYL SALI	CYLATE			118-58-1	-		
CINNAMAL				104-55-2		-	
COUMARIN				91-64-5		-	
GERANIOL				106-24-1		-	
HYDROXYISC	HEXYL 3-CYCLOF	EXENE CARBOXALDEN	YDE	31906-04-4		-	
ANISE ALCOH	HOL			105-13-5		-	
BENZYL CINN	IAMATE			103-41-3		-	
FARNESOL				4602-84-0	-		
BUTYLPHEN	/LMETHYLPROPIC	DNAL		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 PRU	JNASTRI EXTRAC	Г		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.



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

1.1 Product Identifi	er				
Product Name Organic Safflower Oil					
Biological Definition		of Safflower,	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 T	inctorius Seed Oil		
Synonyms & Trade Nam	ies	-			
CAS-No	8001-23-8	EC No.	232-276-5	EINECS No.	232-276-5
	1.2 Relative identified uses of the substance or mixture and uses advised against Component of; Food, Animal Food, Cosmetic products, Pharmaceutical products and Technical applications.				
1.3 Details of the supplier of the safety data sheet					
Madar Corporation Limited 19 - 20 Sandleheath Industrial Estate Fordingbridge SP6 1PA					
1.4 Emergency Tel.	No.	+ 44 (0) 14	425 655 555		

02. HAZARD IDENTIFICATION

2.1 Classification of the substance or mi	xture
Not classed as a hazardous substance.	
Classification (EC 1272/2008)	
Not classed as a hazardous substance.	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
None.	
Signal Word	None.
Contains	Contains no hazardous substances.
Hazard Statements	
None.	
Precautionary Statements	
None.	
Supplementary Precautionary Statements	
None.	
2.3 Other Hazards	



PBT or vPvB according to Annex XIII	No additional data
Adverse physio-chemical properties	No additional data
Adverse effects on human health	No additional data

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substar	nces
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100% Carthamus Tinctorius Seed Oil
CAS: 8001-23-8
Classification:

Not classed as a hazardous substance.

04. FIRST AID MEASURES

4.1 Description	4.1 Description of first aid measures		
Inhalation	Remove to fresh air. If discomfort occurs/continues, seek medical attention.		
Ingestion	If discomfort occurs/continues, seek medical attention.		
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. If discomfort occurs/continues, seek medical attention.		
Eye Contact	Rinse eyes immediately with clean water for a minimum of fifteen minutes. If safe to do, remove contact lenses and continue rinsing. If discomfort occurs/continues seek medical attention.		
4.2 Most imp	4.2 Most important symptoms and effects, both acute and delayed		
No additio	No additional data		
4.3 Indication	4.3 Indication of any immediate medical attention and special treatment needed		
Treat symp	Treat symptomatically.		

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Carbon dioxide, Dry Chemical Powder, Foam.

Do NOT use water.

5.2 Special hazards arising from the product

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 in-crease the hazard. Ignition hazard at welding at the empty container. Dangerous combustion residues: smoke, carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

Wear self-contained respiratory equipment and appropriate protective clothing at all times.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove sources of ignition, provide adequate ventilation, avoid contact with skin and eye contact.



6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority guidelines.

6.3 Methods and material for containment and cleaning up.

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 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

Section 13

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep containers leak proof closed and dry. Prevent spills and leakages to avoid slip hazard. Adhere to all good hygiene, health and safety practices. If handling large/heavy packages or drums, ensure the use of suitable mechanical equipment. Do not eat, drink or smoke whilst handling this product.

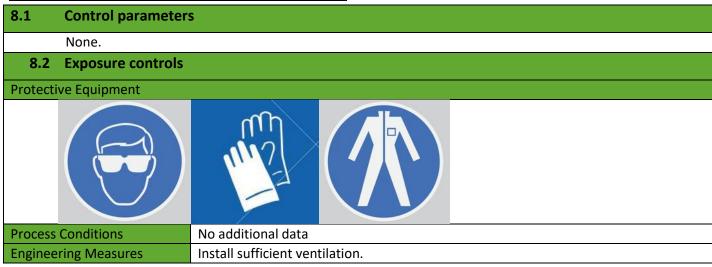
7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Protect from eat, freezing and direct light including sunlight. Do not store above room temperature. Keep all containers tightly sealed when not in use. Intrusion into soil should be prevented. Protect from all potential sources of ignition. Electrical equipment and fittings must comply with local regulations.

7.3 Specific end use(s)

No additional data

08. EXPOSURE CONTROLS/PERSONAL PROTECTION





Respiratory Equipment	Not usually required for use with this product when sufficient ventilation has been	
	provided. Respiratory equipment/protection may become necessary in the evet of	
	ventilation failure or airborne contamination.	
Hand Protection	Wear appropriate protective gloves.	
Eye Protection	Wear protective eyewear.	
Other Protection	No additional data	
Hygiene Measures	Good hygiene practices are always recommended especially when handling oils,	
	chemicals or any other similar type of material.	
Personal Protection	Use personal protection according to Directive 89/686/EEC.	
Skin Protection	No additional data	
Environmental Exposure	Avoid discharging into drainage water.	
Controls		

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance	Clear Liquid.	
Colour	Light yellow	
Odour	Neutral	
Relative Density	~0.921 @ 20°C	
Flash Point (°C)	>200.0°C	
Refractive Index	~1.476 @ 20°C	
Melting Point (°C)	No additional data	
Boiling Point (°C)	>350.0	
Vapour Pressure	No additional data	
Solubility in Water @20°C	Insoluble in water	
Auto-ignition	No additional data	
temperature (°C)		
9.2 Other information		
No additional data		

10. STABILITY AND REACTIVITY

10.1	Reactivity
	Oxidation with atmospheric oxygen. Formation of free fatty acids.
10.2	Chemical stability
	Stable under the recommended handling and storage conditions.
10.3	Possible hazardous reactions
	Reacts with oxidants.
10.4	Conditions to Avoid
	Heat, flames, sunlight and other sources of ignition.
10.5	Incompatible materials



Strong oxidising agents

10.6 Hazardous Decomposition Products

Product does not decompose at proper handling.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects			
Acute Toxicity	In compliance with generally accepted uses and quantities are no negative		
	impacts to be expected.	LD50 oral:	not determined
		LD50 dermal:	not determined
		LC50:	not determined
	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.		
Skin corrosion / irritation	In compliance with generally accepted uses and quantities are no negative		
	impacts to be expected.		
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 ar	nd quantities are no negative
	impacts to be expected.		
Germ Cell Mutagenicity	No additional data		
Carcinogenicity	No expected negative impact.		
Reproductive toxicity	No expected negative impact.		
STOT-single exposure	No additional data		
STOT-repeated exposure	No additional data		
Aspiration hazard	No additional data		
Photo-toxicity	No additional data		
Other Information	No additional data		

12. ECOLOGICAL INFORMATION

12.1	Toxicity
	No additional data
12.2	Persistence & degradability
	Biodegradable.
12.3	Bioaccumulation Potential
	Possible.
12.4	
12.4	
	Mobility in soil



12.6 Other adverse effects

Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Collect and dispose of waste product at an authorised disposal facility. Product remainders should not intrude soil or waters.

14. TRANSPORT INFORMATION

14.1	UN number		
	UN No. Road	No additional data	
	UN No. SEA	No additional data	
	UN No. AIR	No additional data	
14.2	UN proper shipping name		
	No additional data available.		
14.3	3 Transport hazard class(es)		
	No additional data		
14.4	Packing group		
	No additional data		
14.5	Environmental hazards		
	No hazard label necessary – non-hazardous product.		
14.6	Special precautions for user		
	See sections 6 – 8.		
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC code		
	Not defined.		

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	No additional data
15.2	Chemical safety assessment
	No additional data

16. OTHER INFORMATION

Hazard Statements in Full	None
Revision Date	23/01/2020
Rev No	3



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 Name	Organic Safflov	Organic Safflower Oil			
Date 22/01/2020	Produc	ct Code		Rev	3
Description		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.			
Appearance	Clear Liquid, Li	Clear Liquid, Light Yellow			
Odour	Neutral	Neutral			
Origin	Mexico	Mexico			
INCI Name	Carthamus Tin	Carthamus Tinctorius Seed Oil			
CAS Number	8001-23-8	8001-23-8 EC Number 232-276-5			

TEST SPECIFICATION

Analytical Test	Specification Range	
Specific Gravity @ 20°C (g/ml)	0.918 - 0.924	
Refractive Index @ 20°C	1.473 - 1.479	
Acid value (mgKOH/g)	≤ 0.6	
Iodine Value (mg/g)	135.0 – 150.0	
Saponification value (mgKOH/g)	188.0 – 194.0	
Fatty Acid Profile (%)		
Myristic Acid	≤ 0.2	
Palmitic Acid	4.0 - 10.0	
Stearic Acid	1.0 - 5.0	
Oleic Acid	8.0 - 21.0	
Linoleic Acid	68.0 - 83.0	
Linolenic Acid	≤ 0.5	
Arachidic Acid	≤ 0.5	
Eicosenoic Acid	≤ 0.5	
Behenic Acid	≤ 1.0	

STORAGE

Store in a cool, dry, well-ventilated place. Keep away from heat and sunlight.

STABILITY

If stored for twenty-four months, check quality of product before use.



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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.



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.