

# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME: SAFFLOWER HIGH LINOLEIC OIL, COLD PRESSED ORGANIC

BATCH NUMBR: 4484401

PRODUCT INCI: CARTHAMUS TINCTORIUS SEED OIL

CAS NUMBER: 8001-23-8 EINECS NUMBER: 232-276-5 MANUFACTURING METHOD: COLD PRESSED

B<sub>EST</sub> B<sub>EFORE</sub> D<sub>ATE</sub>: October 2024

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE		-
Odour	CHARACTERISTIC	-
COLOUR	Yellow - Golden	-
REFRACTIVE INDEX @ 20°C	1.460 – 1.480	1.476
SPECIFIC GRAVITY @ 20°C	0.917 - 0.924	0.922
ACID VALUE	<5.0	0.14
PEROXIDE VALUE (MEQ O2/ KG)	<20.0	0.6
IODINE VALUE	130.0 – 155.0	142.5
UNSAPONIFICATION VALUE	<15.0	7.5

FATTY ACID PROFILE		Range %	RESULTS
C-CHAIN	ACID NAME		
C16:0	Palmitic	4.0 - 12.0	6.09
C18:0	STEARIC	1.0 - 7.0	2.9
C18:1	Oleic	8.0 - 21.0	8.95
C18:2	LINOLEIC	68.0 - 83.0	80.77



# **ALLERGEN STATEMENT**

PRODUCT NAME: SAFFLOWER HIGH LINOLEIC OIL, COLD PRESSED ORGANIC

### **COSMETIC ALLERGENS**

Annex Illa			TOTAL ALLERGEN
Reference:		CAS NUMBER:	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	AMYLCIN-NAMYL 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		0.000
75	CARBOXALDEHYDE		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 Illa		PRESENT IN	CONTAMINATION	FACTORY
Reference:		PRODUCT:	PRESENCE:	PRESENCE:
1	CEREALS (CONTAINING GLUTEN)	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	NO	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

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# **MANUFACTURING FLOW & INCI STATEMENT**

PRODUCT NAME: SAFFLOWER HIGH LINOLEIC OIL, COLD PRESSED ORGANIC

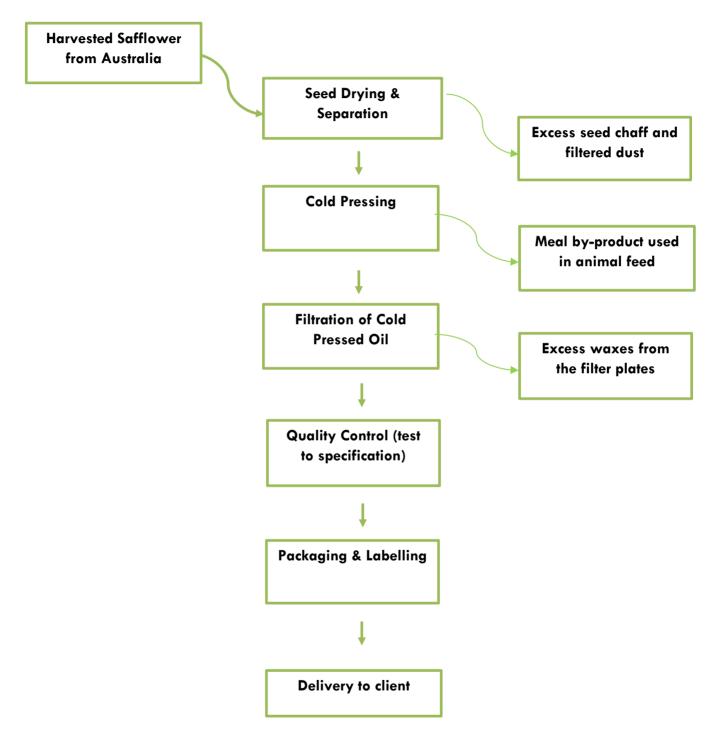
### **INCI STATEMENT**

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

INCI Name	% Inclusion	CAS Number
Carthamus Tinctorius Seed Oil	100	8001-23-8



#### **MANUFACTURING FLOW**





## **GMO Statement**

PRODUCT NAME: Safflower Organic

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

22/10/2021



### **Material Safety Data Sheet**

EU Regulation: 1907/2006

SECTION 1: Identification of	ECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1 Product Identification					
Product Name	Safflower High Lin	OLEIC OIL, CO	ld Pressed Organic		
<b>Biological Definition</b>	Carthamus Tinctor	ius Seed Oil is	S A FIXED OIL OBTAINED FROM THE S	SAFFLOWER	
INCI Name	Carthamus Tinctor	IUS SEED OIL			
Synonyms & Trade Names	ORGANIC SAFFLOWER HI LIN OIL				
Internal Product Code					
CAS-No	8001-23-8	EC No.	232-276-5	EINECS No.	232-276-5
	·			·	
1.2 Details of the supplier of the safety data sheet					
Company Address	Madar Corporation Limited 19 - 20 Sandleheath Industrial Estate, Fordingbridge, SP6 1PA				
Email	technical"madarcorporation.co.uk				
1.3 Details of the supplier of the safety dat	1.3 Details of the supplier of the safety data sheet				
Emergency Contacts	01425 655 555				



#### **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	ts 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 Ingredien	ts	
3.1 Substances	Not Applicable.	
3.2 Mixtures	Not Applicable.	

SECTION 4: First Aid Measures	
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 Measur	es	
6.1 Personal precautions	None Required.	
5.2 Environmental precautions	None Required.	
5.3 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	
7.2 Conditions for safe storage, including any incompatibilities	of drums & heavy packages. 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		
Respiratory Equipment		
Hygiene Measures	None.	
Engineering Measures	None.	
SECTION 9: Physical & Chemical		
Properties		



9.1 Physical & Chemical Properties	
Appearance	OILY LIQUID
Colour	Orange – Yellow - Golden
Odour	CHARACTERISTIC
Relative Density	ΝΟ ΔΑΤΑ
Flash Point (°C)	>280°C.
Refractive Index	1.460 – 1.480
Melting Point (°C)	NOT APPLICABLE
Boiling Point (°C)	>100°C.
Vapour Pressure	NO DATA.
Solubility in Water @ 20°C	INSOLUBLE.
9.2 Other Information	ΝΟ ΔΑΤΑ.
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	
C C	
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.

4.1 ransport Information	
Warning icon	Road (ADR), Rail (RID), Sea (IMDG) and Air (ICAO), transport not restricted in drums or food tankers.
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.

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 $18^{ m th}$
	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
Approved Code of Fractice	sheets for substances & preparations.
Guidance Notes	Workplace exposure limits EH40. CHIP for everyone HSG 108.
15.2	Assessment has not been carried out as this is a non-hazardous material according to
Chemical Safety Assessment	article 31 of REACH 1907/2006.

SECTION 16: Other Information		
Allergens:	None.	
Training Instructions: Refer to possible hazard before use of this product.		
Abbreviations & 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 European sur le transport des merchandises 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 <sup>th</sup> April 2018	Data Launch	
November 2020	Review	



# **SPECIFICATION SHEET**

PRODUCT NAME: SAFFLOWER HIGH LINOLEIC OIL, COLD PRESSED ORGANIC

PRODUCT INCI: CARTHAMUS TINCTORIUS SEED OIL

CAS NUMBER: 8001-23-8

EINECS NUMBER: 232-276-5

MANUFACTURING METHOD: COLD PRESSED

SHELF LIFE: 24 MONTHS

DOCUMENTATION REVIEWED: 2021

ANALYTICAL DETAILS	RANGE %
Appearance	
Odour	CHARACTERISTIC
COLOUR	YELLOW - GOLDEN
REFRACTIVE INDEX @ 20°C	1.460 – 1.480
SPECIFIC GRAVITY @ 20°C	0.917 - 0.924
ACID VALUE	<5.0
PEROXIDE VALUE (MEQ O2/ KG)	<20.0
IODINE VALUE	130.0 – 155.0
UNSAPONIFICATION VALUE	<15.0

FATTY ACID PROFILE		RANGE %
C-CHAIN		
C16:0	Palmitic	4.0 - 12.0
C18:0	STEARIC	1.0 - 7.0
C18:1	Oleic	8.0 - 21.0
C18:2	Linoleic	68.0 - 83.0



## Vegetarian & Vegan Suitability Statement

PRODUCT NAME: Safflower Organic

MADAR Corporation Limited 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.

22/10/2021