

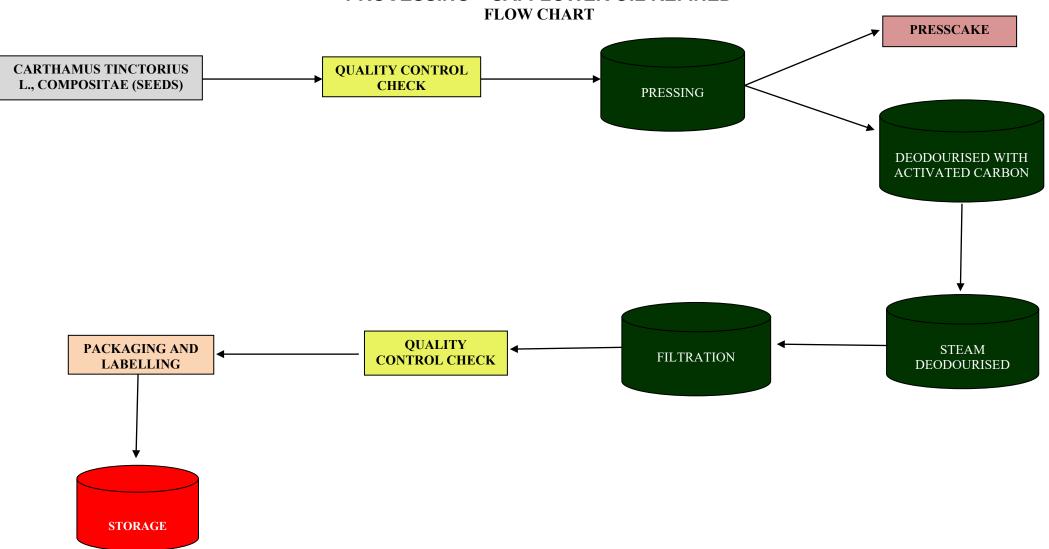
## . Certificate of Analysis

PRODUCT DETAILS	•				
Product Name		SAFFLOWER OIL REFINED			
		15121910			
7 - 3		EU			
Datell Ivallibel		4491401			
Expiry Date		December 2024			
Identification		CAS No: 8001-23-8 EC No: 232-276-5			
PHYSICAL AND CHEM	ICAL CH	ARACTERISTIC			
		SPECIFICATION RANGE		RESULTS	
Appearance		Liquid		Conforms	
Colour		Light Yellow		Conforms	
Odour		Neutral		Conforms	
Relative Density @ 20°C		0.918 - 0.924		0.922	
Refractive Index @ 20°C		1.473 - 1.479		1.475	
Acid Value (mgKOH/g)		≤0.6		0.12	
Iodine Value (mg/g)		135 - 150		140	
Saponification Value (mgKOH/g)		188 - 194		192	
FATTY ACID PROFILE	(%)				
CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS
C14:0 Myristic Acid ≤0.2	0.1	C16:0 Palmitic Acid 4.0 - 10.0	7.1	C18:0 Stearic Acid 1.0 - 5.0	2.8
C18:1 Oleic Acid 8.0 - 21.0	13.9	C18:2 Linoleic Acid 68.0 - 83.0	73.6	C18:3 Linolenic Acid ≤0.5	0.1
C20:0 Arachidic Acid ≤0.5	0.4	C20:1 Eicosenoic Acid ≤0.5%	0.2	C22:0 Behenic Acid ≤1.0	0.3
STORAGE AND SHELF	LIFE				
Storage		Store in tightly closed container with minimum headspace in a cool, dark and dry			
		place.			

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### PROCESSING - SAFFLOWER OIL REFINED





### SAFETY DATA SHEET SAFFLOWER OIL REFINED

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

1.1. Product identifier

Product name SAFFLOWER OIL REFINED

Product number SAFFLR1000

Synonyms; trade names Carthamus Tinctorius Seed Oil

**CAS number** 8001-23-8 **EC number** 232-276-5

1.2. Relevant identified uses of the substance or mixture and uses advised

<u>against</u> Identified uses Fragrances

1.3. Details of the supplier of the safety data sheet

Supplier Madar Corporation Limited

19 - 20 Sandleheath Industrial Estate

Fordingbridge Hampshire SP6 3BE 01425 655555

technical@madarcorporation.co.uk

#### 1.4. Emergency telephone number

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

**EC number** 232-276-5

Hazard statements NC Not Classified

2.3. Other hazards

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

#### 3.1. Substances

Product name SAFFLOWER OIL REFINED

**CAS number** 8001-23-8

19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk Page 3 of 9 Revision date: 11/10/2019 Revision: 1

#### SAFFLOWER OIL REFINED

**EC** number 232-276-5

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Skin contact Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical

attention if any discomfort continues.

Eve contact Remove any contact lenses and open eyelids wide apart. 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

No further information available at this time. General information

#### 4.3. Indication of any immediate medical attention and special treatment needed

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Use as appropriate carbon dixoide (CO2), dry chemical or foam Suitable extinguishing media

Unsuitable extinguishing

media

For safety reasons do not use full water jet.

#### 5.2. Special hazards arising from the 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 in-crease the hazard. Ignition hazard at welding at the empty container. Dangerous combustion residues: smoke, carbon monoxide,

carbon dioxide.

Hazardous combustion

products

Carbon dioxide (CO2). Carbon monoxide (CO).

#### 5.3. Advice for firefighters

Protective actions during

firefighting

Control run-off water by containing and keeping it out of sewers and watercourses. Avoid

breathing fire gases or vapours.

Special protective equipment

for firefighters

Wear full protective clothing

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes and clothing. For personal protection, see Section 8. Wash

thoroughly after dealing with a spillage.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid release to the

environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb with inert, non-combustible, inorganic absorbent material (e.g. sand, earth,

> diatomaceous earth, vermiculite). Sweep up and remove to an approved disposal container. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13. Wash spill site after material pick up is complete. Wash

thoroughly after dealing with a spillage.

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#### SAFFLOWER OIL REFINED

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed

when not in use. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Storage precautions Keep container tightly closed, in a cool, well ventilated place.

#### 7.3. Specific end use(s)

#### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

#### Protective equipment







Appropriate engineering

controls

Provide eyewash station

Personal protection Use personal protection according to Directive 89/686/EEC

**Eye/face protection** Approved safety goggles.

Hand protection Chemical resistant gloves (PVC)

Other skin and body

protection

Wear an apron.

**Hygiene measures** Good personal hygiene procedures should be implemented.

**Respiratory protection** Generally unnecessary in a well ventilated area.

If ventilation is insufficient, respiratory protection must be worn.

**Environmental exposure** 

controls

Avoid discharging into drains.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Light yellow

Odour Neutral

Initial boiling point and range ≥350°C

Flash point  $\geq 200^{\circ}$ C

**Relative density** 0.918 - 0.924 @ 20°C

Solubility(ies) Insoluble in water. Soluble in oil and ethanol

9.2. Other information

**Refractive index** 1.473 - 1.479 @ 20°C

**Hydrocarbon Content** 

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#### SAFFLOWER OIL REFINED

#### SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** Oxidation with atmospheric oxygen. Formation of free fatty acids.

10.2. Chemical stability

**Stability** Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Reacts with oxidants.

reactions

10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Product does not decompose at proper handling

products

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD50) No information available.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) No information available.

Skin sensitisation

**Skin sensitisation** No information available.

#### SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - terrestrial Not available.

12.2. Persistence and degradability

**Biodegradation** Expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Possible

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Do not empty into drains. Do not reuse empty containers.

**SECTION 14: Transport information** 

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#### SAFFLOWER OIL REFINED

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Guidance CHIP for everyone HSG228.

#### 15.2. Chemical safety assessment

#### **SECTION 16: Other information**

Revision date 11/10/2019

Revision 1

SDS number 5349

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# **Product Specification**

PRODUCT DETAILS				
Product Name	SAFFLOWER OIL REFINED			
Product Code	SAFFLR1000			
Tariff Number	15121910			
Country of Origin	EU			
INCI Name	Carthamus Tinctorius Seed Oil			
Natural Status	We hereby declare, to the best of our knowledge and from information received			
	from our supplier, that this product is in accordance to the requirements of			
	Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as			
	natural. This product does not contain any solvents or additives.			
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.			
Kosher Certified	Not certified but suitable			
Halal Certified	We hereby delcare, from information received from our supplier, that this product			
	does not contain any ingredient derived from animal origin, extracted from hair or			
	feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork			
	and/or other meat products. This product does not contain alcohol (ethanol or			
	grain alcohol) and has not been used in the manufacturing process.			
GMO Declaration	To the best of our knowledge and from information received from our supplier,			
	this product does not derive from genetically modified starting raw material, or			
	additives that are derived from genetic	ally modifed organisms.		
Manufacturing Process	Please request Flowchart			
Identification	CAS No: 8001-23-8	EC No: 232-276-5		
PHYSICAL AND CHEMICAL O	CHARACTERISTIC			
Appearance	Liquid			
Colour	Light Yellow			
Odour	Neutral			
Relative Density @ 20°C	0.918 - 0.924			
Refractive Index @ 20°C	1.473 - 1.479			
Flash Point °C	≥200			
Boiling Point °C	≥350			
Solubilities	Insoluble in Water, Soluble in Oil an	Insoluble in Water, Soluble in Oil and Ethanol		
Acid Value (mgKOH/g)	≤0.6	≤0.6		
Iodine Value (mg/g)	135 - 150			
Saponification Value (mgKOH/g)	188 - 194	188 - 194		
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		
FOOD ALLERGENS				
NONE PRESENT				
IFRA + FRAGRANCE ALLERG	ENS			
NOT APPLICABLE	1			
STORAGE AND SHELF LIFE				
Storage				
	J ,	and dry place.		
Shelf Life	24 Months unopened and stored as above.			
DISCI AIMED: This information relates only to the specific mater	designated and may not be valid for such material used in combination with one other control or by a control of			

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# **Vegan and Vegetarian Statement**

IDENTIFICATION				
Product:	SAFFLOWER OIL REFINED (SAFFLR1000)			
Cas No:	8001-23-8			
EINECS No:	232-276-5			
STATEMENT				

We, Madar Corporation Limited, from information received from our supplier, hereby declare that the material listed above is suitable for the following:

Vegans (Excludes all animal derived products, including dairy, eggs, leather, bee products (beeswax and honey).

Lacto Vegetarians (Same as vegan but allows milk products and bee products.

Ovo Vegetarians (Same as vegan but allows egg products and bee products)

It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.