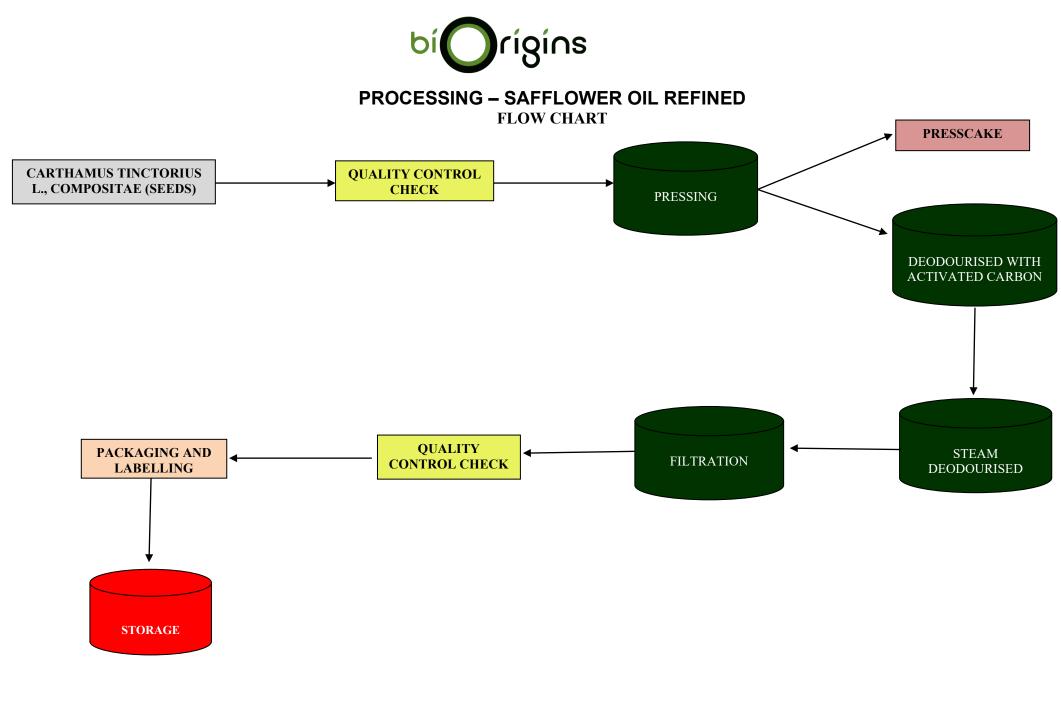


PRODUCT DETAILS					
Product Name		SAFFLOWER OIL REFINED			
Tariff Number		15121910			
Country of Origin		EU			
Batch Number		4499102			
Expiry Date		March 2025			
Identification		CAS No: 8001-23-8 EC No: 232-276-5			
PHYSICAL AND CHEM	ICAL CH	ARACTERISTIC			
		SPECIFICATION RAN	GE	RESULTS	
Appearance		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 <b>1.4</b> 7		1.475	
Acid Value (mgKOH/g)		≤0.6 <b>0.12</b>			
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 place.	<sup>.</sup> with minimเ	Im headspace in a cool, darl	k and dry

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19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk Page 2 of 9



## 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 REFIN	JED

Product number SAFFLR1000

Synonyms; trade namesCarthamus Tinctorius Seed OilCAS number8001-23-8

 CAS number
 8001-23-8

 EC number
 232-276-5

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

against 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 s	ubstance or mixture	
Classification (EC 1272/20	008)	
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	

EC number	232-276-5
SECTION 4: First aid measure	is
4.1. Description of first aid mea	asures
Skin contact	Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical attention if any discomfort continues.
Eye 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
General information	No further information available at this time.
4.3. Indication of any immedia	te medical attention and special treatment needed
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Use as appropriate carbon dixoide (CO2), dry chemical or foam
Unsuitable extinguishing media	For safety reasons do not use full water jet.
5.2. Special hazards arising fro	om 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 releas	e measures
6.1. Personal precautions, pro	tective 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 precaution	<u>S</u>
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.
6.4. Reference to other section	<b>NS</b>

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

## 7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal p	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°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	
15	-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1P. Tel: 01425 655555 Email: technical@madarcorporation.co.uk

SECTION 10: Stability and rea	activity
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	
<b>_</b>	Reacts with oxidants.
Possibility of hazardous reactions	Reacts with oxidants.
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	on products
Hazardous decomposition products	Product does not decompose at proper handling
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical effects
Acute toxicity - oral	
Notes (oral LD₅₀)	No information available.
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	No information available.
Skin sensitisation	
Skin sensitisation	No information available.
SECTION 12: Ecological infor	mation
12.1. Toxicity	
Acute aquatic toxicity	
Acute toxicity - terrestrial	Not available.
12.2. Persistence and degrad	ability
Biodegradation	Expected to be readily biodegradable.
12.3. Bioaccumulative potentia	
Bioaccumulative potential	Possible
12.4. Mobility in soil	
12.5. Results of PBT and vPv	B assessment
12.6. Other adverse effects	
SECTION 13: Disposal consid	derations
13.1. Waste treatment method	ds
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.

## 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 a		
	Articles 3 (2) (d) of Regulation (EC) 1334/2	2008 and therefore can be designated as	
	natural. This product does not contain and	y 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 reco	eived from our supplier, that this product	
	does not contain any ingredient derived f feathers, animal fats, animal extracts, blo and/or other meat products. This produc grain alcohol) and has not been used in th	od of any origin, blood plasma, pork t does not contain alcohol (ethanol or	
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 genetically modifed organisms.		
Manufacturing Process	Please request Flowchart		
Identification	CAS No: 8001-23-8	EC No: 232-276-5	
PHYSICAL AND CHEMICAL O	HARACTERISTIC		
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 and I	Ethanol	
Acid Value (mgKOH/g)	≤0.6		
Iodine Value (mg/g)	135 - 150		
Saponification Value (mgKOH/g)	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 $\leq 0.5\%$	C18.3 Enfoience Acid ≤0.3 C22:0 Behenic Acid ≤1.0	
		C22.0 Benefiic Acid S1.0	
FOOD ALLERGENS			
NONE PRESENT			
IFRA + FRAGRANCE ALLERG	ENS		
NOT APPLICABLE			
STORAGE AND SHELF LIFE			
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.		
Shelf Life	24 Months unopened and stored as at	oove.	
	al designated and may not be valid for such material used in combination	with any other materials or in any process. Such information	

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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
	pration Limited, from information received from our supplier, hereby declare listed above is suitable for the following:
Vegans (Excludes (beeswax and ho	all animal derived products, including dairy, eggs, leather, bee products ney).
Lacto Vegetarian	s ( Same as vegan but allows milk products and bee products.
Ovo Vegetarians	(Same as vegan but allows egg products and bee products)
	in any animal ingredients or animal by products. No animal ingredients or by d in the manufacturing process.
does not release the	resents to the best of our knowledge and from information received from our supplier. It e buyer from the obligation to carry out an examination of the goods received. All uses are done under their own responsibility.