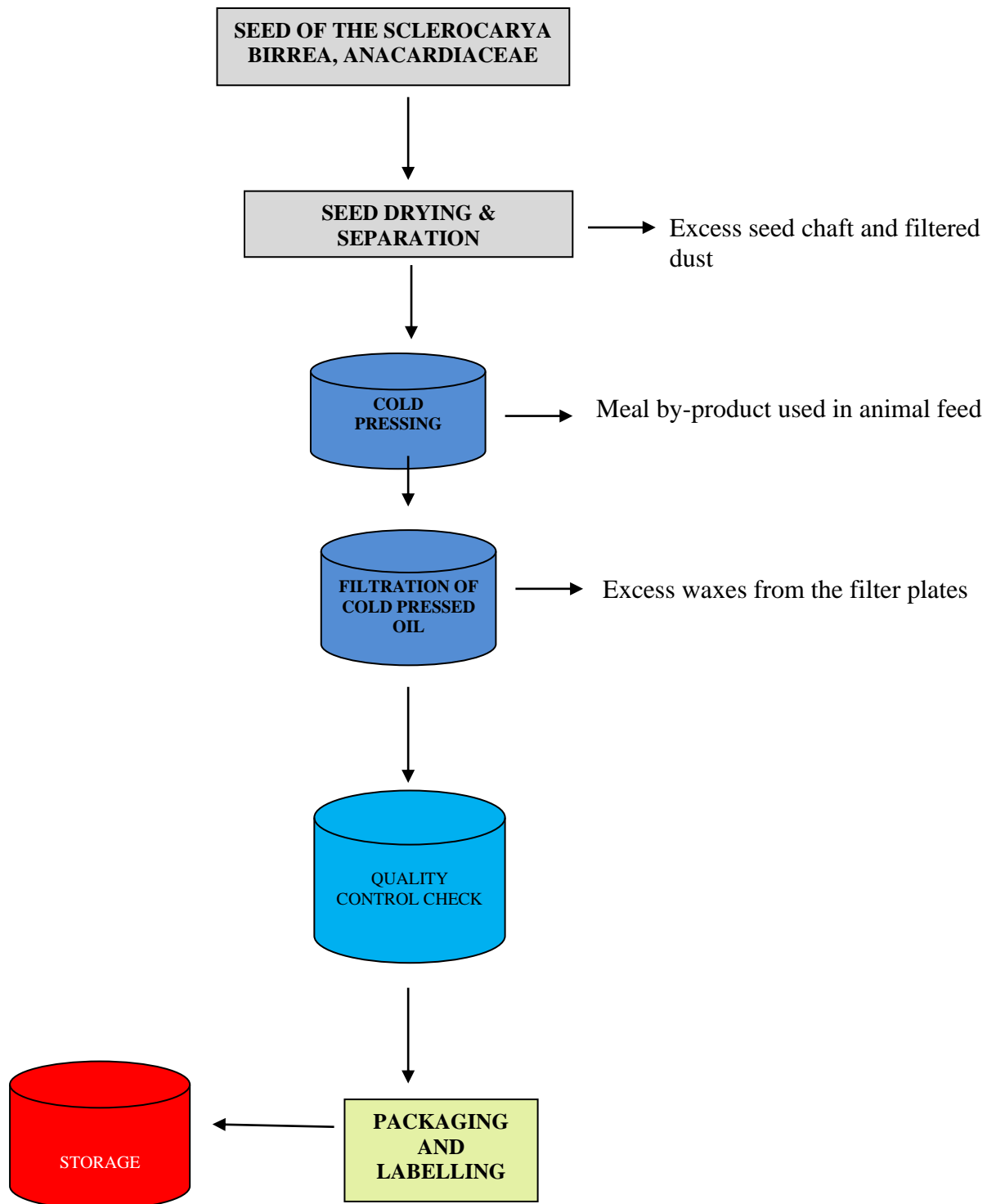




## Certificate of Analysis

PRODUCT DETAILS		
Product Name	BROCCOLI SEED OIL ORGANIC UNREFINED	
Batch Number	4531607	
INCI Name	Brassica Oleracea Italica Seed Oil	
Best Before Date	January 2026	
Identification	CAS No: 223749-36-8	EINECS No: N/A
PHYSICAL AND CHEMICAL CHARACTERISTIC		
	SPECIFICATION RANGE	RESULTS
Appearance	Oily liquid	Conforms
Colour	Yellow - green	Conforms
Odour	Characteristic	Conforms
Relative Density @ 20°C	.907 - 0.919	0.913
Refractive Index @ 20°C	1.461 - 1.475	1.475
Acid Value (mgKOH/g)	<3.0	1.5
Iodine Value (mg/g)	86.0 - 120.0%	96.5
Peroxide Value (MEQ)2/KG	<20.0	1.6
Saponification value (mgKOH/g)	168 - 190%	182.8
FATTY ACID PROFILE %		
C 16:0 Palmitic Acid	<5.5%	2.38
C 18:0 Stearic Acid	<6.5%	1.62
C 18:1 Oleic Acid	<40.5%	14.93
C 18:2 Linoleic Acid	<18.3%	15.12
C18:3 Linolenic	<8.0%	7.79
C 20:1 Eicoenoic	<11.0%	8.24
C 22:1 Erucic	30.0 - 50.0%	45.83
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	
Shelf Life	12 months unopened and stored as above.	
<p><b>DISCLAIMER:</b> 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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.</p>		

## BROCCOLI SEED OIL ORGANIC UNREFINED FLOW CHART





**SAFETY DATA SHEET**  
**BROCCOLI SEED OIL ORGANIC UNREFINED**

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

**1.1. Product identifier**

**Product name** BROCCOLI SEED OIL ORGANIC UNREFINED

**CAS number** 223749-36-8

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

**1.3. Details of the supplier of the safety data sheet**

**Supplier** Madar Corporation Limited  
19 - 20 Sandleheath Industrial Estate  
Fordingbridge  
SP6 1PA  
Tel. +44 1425 655 555 (Opening Hours Mon - Thurs 8.30am - 5.00pm, Fri 8.30am - 3.45pm)  
e-mail 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**

**Hazard statements** NC Not Classified

**2.3. Other hazards**

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

**3.1. Substances**

**Product name** BROCCOLI SEED OIL ORGANIC UNREFINED

**CAS number** 223749-36-8

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information** Remove contaminated clothing.

**Inhalation** No specific recommendations.

## BROCCOLI SEED OIL ORGANIC UNREFINED

Ingestion	Non toxic product
Skin contact	Non toxic product
Eye contact	Rinse immediately with plenty of water. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

General information	Not applicable.
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### 4.3. Indication of any immediate medical attention and special treatment needed

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Foam, carbon dioxide or dry powder.
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### 5.2. Special hazards arising from the substance or mixture

Specific hazards	This product may only form ignitable mixtures or burn above the flash point.
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Hazardous combustion products	Acrid smoke or fumes. Oxides of carbon.
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### 5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## SECTION 6: Accidental release measures

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

Personal precautions	None required
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### 6.2. Environmental precautions

Environmental precautions	None required
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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Spills can be absorbed by using a cloth or sawdust, washed away with water & cleaned with sodic products.
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### 6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions	Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product.
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### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at temperatures not exceeding 20°C/°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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### 7.3. Specific end use(s)

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

Ingredient comments	Non toxic product
---------------------	-------------------

## BROCCOLI SEED OIL ORGANIC UNREFINED

### 8.2. Exposure controls

#### Protective equipment



Eye/face protection	Chemical splash goggles.
Hand protection	None
Hygiene measures	Good personal hygiene procedures should be implemented.
Respiratory protection	None
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	Yellow. Green.
Odour	Characteristic.
Initial boiling point and range	>100°C
Flash point	>280°C
Solubility(ies)	Insoluble

#### 9.2. Other information

Refractive index	1.461 - 1.475
Hydrocarbon Content	

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	Not applicable.
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#### 10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.
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#### 10.4. Conditions to avoid

Conditions to avoid	Storage at high temperatures
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#### 10.5. Incompatible materials

Materials to avoid	Acids. Alkalis. Oxidising agents.
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#### 10.6. Hazardous decomposition products

Hazardous decomposition products	This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke.
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### SECTION 11: Toxicological information

## BROCCOLI SEED OIL ORGANIC UNREFINED

### 11.1. Information on toxicological effects

**Toxicological effects** A non toxic product. For pharmaceutical & cosmetic use only. This product does not carry a microbiological specification as it is sterilized 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 any colorants, preservatives or UV filters (Annex II - VI of EU Regulation 1223/2009).

#### Skin corrosion/irritation

**Skin corrosion/irritation** Not applicable.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Not applicable.

#### Respiratory sensitisation

**Respiratory sensitisation** Not applicable.

#### Skin sensitisation

**Skin sensitisation** Not applicable.

#### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

#### Aspiration hazard

**Aspiration hazard** Not relevant.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Toxicity** Low - none

#### 12.2. Persistence and degradability

**Persistence and degradability** >90% (OECD). This product is unlikely to accumulate in the environment and environmental problems under normal use conditions are not expected.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** None

#### 12.4. Mobility in soil

**Mobility** Low - none

#### 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 product or used containers in accordance with local regulations

### SECTION 14: Transport information

**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

**BROCCOLI SEED OIL ORGANIC UNREFINED**

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 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**Guidance**

CHIP for everyone HSG228.

**15.2. Chemical safety assessment**

An assessment has not been executed as this is not a hazardous material according to article 31 of REACH 1907/2006.

**SECTION 16: Other information**

**Revision date** 01/06/2020

**Revision** 1

**SDS number** 5453

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## Product Specification

PRODUCT DETAILS		
Product Name	BROCCOLI SEED OIL ORGANIC UNREFINED	
INCI Name	Brassica Oleracea Italica Seed Oil	
Tariff Number	1515 9059	
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.	
Food Grade Status	Not applicable	
Kosher Certified	No	
Halal Certified	Not certified butcan confirm this material does not contain any animal derived product or ingredient.	
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 modified organisms.	
Fragrance Allergens / IFRA	None present	
Food Allergens	None present	
Manufacturing Method	Cold pressed	
Identification	CAS No: 223749-36-8	
PHYSICAL AND CHEMICAL CHARACTERISTIC		
Appearance	Oily liquid	
Colour	Yellow - green	
Odour	Characteristic	
Specific Gravity @ 20°c	0.907 - 0.919	
Refractive Index @ 20°c	1.461 - 1.475	
Peroxide Value (MEQ )2/KG	<20.0	
Iodine Value	86.0 - 120.0	
Acid Value	<3.0	
Saponification Value	168 - 190	
FATTY ACID PROFILE		
C16:0 Palmitic <5.5%	C18:0 Stearic <6.5%	C18:1 Oleic <40.5%
C18:2 Linoleic <18.5%	C18:3 Linolenic <8.0%	C20:1 Eicoenoic <11.0%
C22:1 Erucic 30.0 - 50.0		
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	
Shelf Life	12 months unopened and stored as above.	

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## Vegan and Vegetarian Statement

IDENTIFICATION	
Product:	Broccoli Seed Oil Organic Unrefined
Cas No:	223749-36-8
STATEMENT	
<p>We, Madar Corporation Limited, from information received from our supplier, hereby declare that the material listed above is suitable for the following:</p> <p>Vegans (Excludes all animal derived products, including dairy, eggs, leather, bee products (beeswax and honey).</p> <p>Lacto Vegetarians ( Same as vegan but allows milk products and bee products.</p> <p>Ovo Vegetarians (Same as vegan but allows egg products and bee products)</p> <p>It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.</p> <p>17<sup>th</sup> June 2020</p> <p>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.</p>	