



## Certificate of Analysis Flax Oil Organic

|                           |                      |  |  |
|---------------------------|----------------------|--|--|
| <b>Trade Name:</b>        | Flaxseed Oil Organic | <b>Inci Name:</b>                        | <i>Linum Usitatissimum (Flax)<br/>Seed Oil</i> |
| <b>Cas No:</b>            | 8001-26-1            | <b>Einecs No: Extraction<br/>Method:</b> | 232-278-6<br>Cold Pressed                      |
| <b>Country of Origin:</b> | Kazakhstan (Seed)    |  |  |
| <b>Batch No:</b>          | 4309702              |  |  |
| <b>Best Before End:</b>   | December 2019        |  |  |

### Description:

The fixed oil expressed by mechanically cold pressing the dried ripe seed of the Linseed, *Linum usitatissimum L.*, *Linaceae*.

| ANALYTICAL DETAILS         | UNIT                  | RANGE                 | RESULT   |
|----------------------------|-----------------------|-----------------------|----------|
| Appearance                 | Organoleptic          | Mobile liquid         | Conforms |
| Colour                     | Organoleptic          | Pale to golden yellow | Conforms |
| Odour                      | Organoleptic          | Characteristic        | Conforms |
| Relative Density @ 20°C    | g/ml                  | 0.910 – 0.930         | 0.930    |
| Refractive Index @ 20°C    | -                     | 1.470 – 1.490         | 1.48167  |
| Free Fatty Acid (as Oleic) | %                     | ≤ 3.0                 | 0.6      |
| Peroxide Value             | meqO <sub>2</sub> /kg | ≤ 5.0                 | < 1.0    |
| Iodine Value               | mg/g                  | 180 – 200             | 189.45   |
| Saponification Value       | mgKOH/g               | 185 - 205             | 192.4    |
| Flash Point                | Closed Cup            | >200°C                | Conforms |

| TYPE  | Acid NAME           | UNIT | RANGE   | RESULT |
|-------|---------------------|------|---------|--------|
| C16:0 | Palmitic            | %    | 3 – 7   | 5.33   |
| C16:1 | Palmitoleic         | %    | ≤ 0.5   | < 0.1  |
| C17:0 | Heptadecanoic       | %    | ≤ 1.0   | < 0.1  |
| C18:0 | Stearic             | %    | 2 – 7   | 4.58   |
| C18:1 | Oleic n-9           | %    | 14 – 24 | 18.09  |
| C18:2 | Linoleic n-6        | %    | 12 – 18 | 15.77  |
| C18:3 | Alpha linolenic n-3 | %    | 50 – 65 | 56.01  |
| C20:0 | Arachidic           | %    | ≤ 0.5   | < 0.1  |
| C20:1 | Icosenoic           | %    | ≤ 0.5   | 0.11   |
| C22:0 | Behenic             | %    | ≤ 1.0   | 0.11   |
| C24:0 | Lignoceric          | %    | ≤ 1.0   | < 0.1  |

**Storage:** Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

**Shelf Life:** Once opened the shelf life of the oil is limited by temperature, light and oxygen exposure. Any remaining oil should be blanketed with nitrogen and used as soon as possible.

## ALLERGEN DECLARATION

We hereby confirm that the following item contains the components listed below. Stated are the total levels added plus levels from natural ingredients. The information is supplied to enable compliance with Cosmetic and Detergent regulations.

### Flaxseed Organic

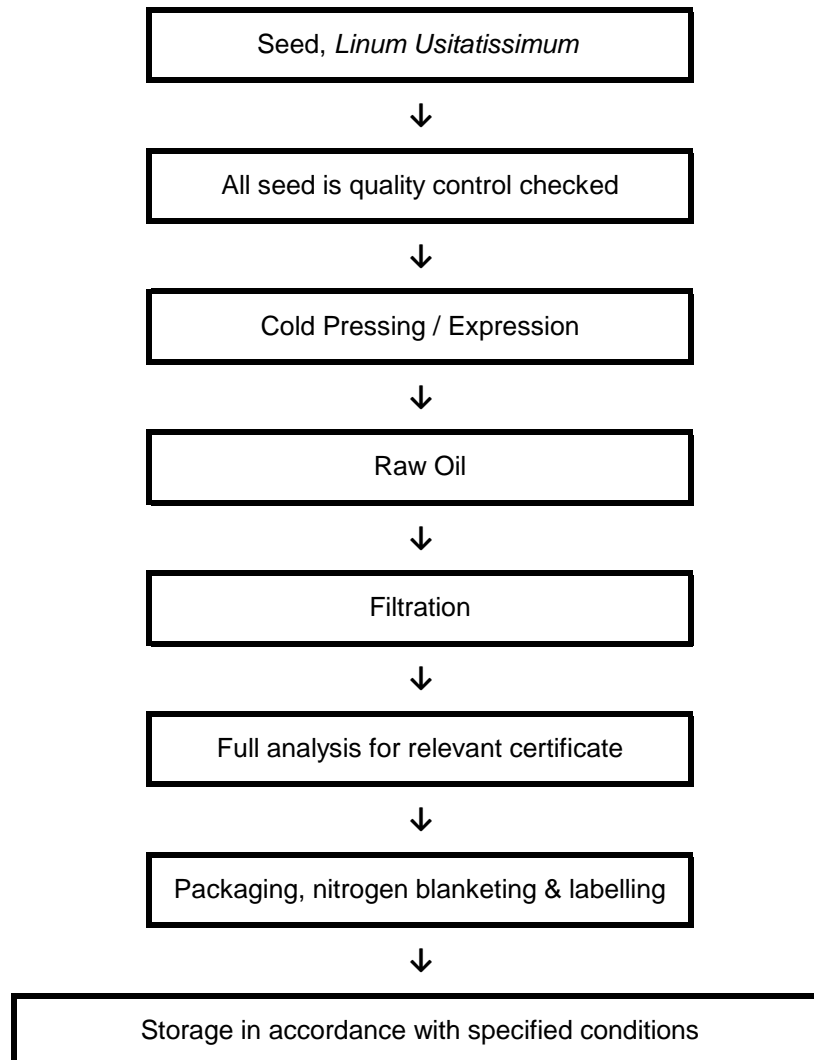
| Ingredient              | CAS | EC | Concentration (%) |
|-------------------------|-----|----|-------------------|
| There are no allergens. |     |    |                   |

Regulatory Affairs Department



## Manufacturing Flow Chart

### Flaxseed Oil Organic





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## GMO Statement

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Due to current concerns in respect of G.M.O Products, MADAR Corporation Ltd can confirm: Our Flaseed Organic Essential Oil, is purchased from a supplier who meets our G.M.O free commitment.

## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Flaxseed Organic

**Version:** 1

### Section 1. Identification of the substance or the mixture and of the supplier

#### 1.1 Product Identifier

**Product identifier:** Linum Usitatissimum (Flax) Seed Oil; CAS: 8001-26-1

**Other identifiers:** Linseed Oil

#### 1.2 Relevant identified uses of the substance of mixture and uses advised against

**Product uses:** Cosmetics, Food Use

#### 1.3 Details of the supplier of the safety data sheet

**Company name:** MADAR Corporation Ltd

**Company address:** 19-20 Sandleheath Industrial Estate  
Fordingbridge  
Hampshire  
SP6 1PA

**E-Mail address:** sales@madarcorporation.co.uk

**Approved sellers:** Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

**Company phone:** +44 (0) 1425 655555

#### 1.4 Emergency telephone number

**Emergency phone:** +44 (0) 1425 655555

### Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification under Regulation (EC) No 1272/2008**

**Class and category of danger:** This material does not meet the criteria for classification under Regulation (EC) No 1272/2008.

#### 2.2 Label elements

**Classification under Regulation (EC) No 1272/2008**

**Signal word:** None

**Hazard statements:** None

**M factor:** None

**Supplemental Information:** None

**Precautionary statements:** None

## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Flaxseed Organic

**Version:** 1

**Pictograms:** None

**Other hazards:** None

### Section 3. Composition / information on ingredients

#### 3.1 Substances

**Product identifier:** Linum Usitatissimum (Flax) Seed Oil; CAS: 8001-26-1

### Section 4. First-aid measures

#### 4.1 Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

**Eye exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

**Skin exposure:** Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.

**Ingestion:** Rinse mouth with water and obtain medical attention.

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

None expected, see Section 4.1 for further information.

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

None expected, see Section 4.1 for further information.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

#### 5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

#### 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

### Section 6. Accidental release measures

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

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Flaxseed Organic 0096

**Version:** 1

### 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

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

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

### 6.4 Reference to other sections:

Also refer to sections 8 and 13.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

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

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 7.3 Specific end use(s):

Cosmetics, Food Use: Use in accordance with good manufacturing and industrial hygiene practices.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limits: Not Applicable

### 8.2 Exposure Controls

#### Eye / Skin Protection

Wear protective gloves/eye protection/face protection

#### Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Flaxseed Organic

**Version:** 1

### Section 9. Physical and chemical properties

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

|  |  |
|--|--|
| <b>Appearance:</b>                                   | Pale to golden yellow liquid                 |
| <b>Odour:</b>  | Characteristic                               |
| <b>Odour threshold:</b>                              | Not determined                               |
| <b>pH:</b>   | Not determined                               |
| <b>Melting point / freezing point:</b>               | Not determined                               |
| <b>Initial boiling point / range:</b>                | Not determined                               |
| <b>Flash point:</b>                                  | > 100 °C                                     |
| <b>Evaporation rate:</b>                             | Not determined                               |
| <b>Flammability (solid, gas):</b>                    | Not determined                               |
| <b>Upper/lower flammability or explosive limits:</b> | Product does not present an explosion hazard |
| <b>Vapour pressure:</b>                              | Not determined                               |
| <b>Vapour density:</b>                               | Not determined                               |
| <b>Relative density:</b>                             | 0.9100 - 0.9300                              |
| <b>Solubility(ies):</b>                              | Not determined                               |
| <b>Partition coefficient: n-octanol/water:</b>       | Not determined                               |
| <b>Auto-ignition temperature:</b>                    | Not determined                               |
| <b>Decomposition temperature:</b>                    | Not determined                               |
| <b>Viscosity:</b>                                    | Not determined                               |
| <b>Explosive properties:</b>                         | Not expected                                 |
| <b>Oxidising properties:</b>                         | Not expected                                 |

**9.2 Other information:** None available

### Section 10. Stability and reactivity

#### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

#### 10.2 Chemical stability:

Good stability under normal storage conditions.

#### 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

#### 10.4 Conditions to avoid:

Avoid extreme heat.



## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Flaxseed Organic

**Version:** 1

### 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

### 10.6 Hazardous decomposition products:

Not expected.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

This material does not meet the criteria for classification for health hazards under Regulation (EC) No 1272/2008.

|   |  |
|---|--|
| <b>Acute Toxicity:</b>                    | Based on available data the classification criteria are not met. |
| Acute Toxicity Oral                       | Not Applicable   |
| Acute Toxicity Dermal                     | Not Applicable   |
| Acute Toxicity Inhalation                 | Not Available  |
| <b>Skin corrosion/irritation:</b>         | Based on available data the classification criteria are not met. |
| <b>Serious eye damage/irritation:</b>     | Based on available data the classification criteria are not met. |
| <b>Respiratory or skin sensitisation:</b> | Based on available data the classification criteria are not met. |
| <b>Germ cell mutagenicity:</b>            | Based on available data the classification criteria are not met. |
| <b>Carcinogenicity:</b>                   | Based on available data the classification criteria are not met. |
| <b>Reproductive toxicity:</b>             | Based on available data the classification criteria are not met. |
| <b>STOT-single exposure:</b>              | Based on available data the classification criteria are not met. |
| <b>STOT-repeated exposure:</b>            | Based on available data the classification criteria are not met. |
| <b>Aspiration hazard:</b>                 | Based on available data the classification criteria are not met. |

### Information about hazardous ingredients in the mixture

Not Applicable

Refer to Sections 2 and 3 for additional information.

## Section 12. Ecological information

|  |               |
|--|---------------|
| <b>12.1 Toxicity:</b>  | Not available |
| <b>12.2 Persistence and degradability:</b>                               | Not available |
| <b>12.3 Bioaccumulative potential:</b>                                   | Not available |
| <b>12.4 Mobility in soil:</b>  | Not available |
| <b>12.5 Results of PBT and vPvB assessment:</b>                          |               |
| This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. |               |
| <b>12.6 Other adverse effects:</b>                                       | Not available |

## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Flaxseed Organic

**Version:** 1

### Section 13. Disposal considerations

#### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Section 14. Transport information

- 14.1 UN number: Not classified
- 14.2 UN Proper Shipping Name: Not classified
- 14.3 Transport hazard class(es): Not classified
- Sub Risk: Not classified
- 14.4. Packing Group: Not classified
- 14.5 Environmental hazards: Not environmentally hazardous for transport
- 14.6 Special precautions for user: None additional
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
Not classified

### Section 15. Regulatory information

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

None additional

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

### Section 16. Other information

#### Key to revisions:

Not applicable

#### Key to abbreviations:

Not applicable

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.



## Material Specification Flaxseed Oil Organic

|                           |                      |                           |                            |
|---------------------------|----------------------|---------------------------|----------------------------|
| <b>Trade Name:</b>        | Flaxseed Oil Organic | <b>Inci Name:</b>         | <i>Linum Usitatissimum</i> |
| <b>Cas No:</b>            | 8001-26-1            | <b>Einecs No:</b>         | 232-278-6                  |
| <b>Country of Origin:</b> | Kazakhstan (Seed)    | <b>Extraction Method:</b> | Cold Pressed               |

### Description:

The seeds are cold pressed and then the oil is filtered.

| ANALYTICAL DETAILS           | RANGE                 | TYPICAL RESULT |
|------------------------------|-----------------------|----------------|
| APPEARANCE                   | Pale to Golden Yellow | Conforms       |
| ODOUR                        | Typical               | Conforms       |
| RELATIVE DENSITY @ 20°C      | 0.910 – 0.930         | Conforms       |
| REFRACTIVE INDEX @ 20°C      | 1.470 – 1.490         | Conforms       |
| FREE FATTY ACID (% AS OLEIC) | ≤ 3.0                 | Conforms       |
| PEROXIDE VALUE               | ≤ 5.0                 | Conforms       |
| IODINE VALUE (CALC)          | 180 – 200             | Conforms       |
| SAPONIFICATION VALUE (CALC)  | 185 - 205             | Conforms       |
| FLASH POINT (°C)             | N/A                   | Conforms       |

| TYPE  | Acid NAME                 | RANGE (%) | TYPICAL RESULT (%) |
|-------|---------------------------|-----------|--------------------|
| C16:0 | Palmitic                  | 3 – 7     | Conforms           |
| C16:1 | Palmitoleic               | ≤ 0.5     | Conforms           |
| C17:0 | Heptadecanoic             | ≤ 1.0     | Conforms           |
| C18:0 | Stearic                   | 2 – 7     | Conforms           |
| C18:1 | Oleic (Omega 9)           | 14 – 24   | Conforms           |
| C18:2 | Linoleic (Omega 6)        | 12 – 18   | Conforms           |
| C18:3 | Alpha linolenic (Omega 3) | 50 – 65   | Conforms           |
| C20:0 | Arachidic                 | ≤ 0.5     | Conforms           |
| C20:1 | Icosenoic                 | ≤ 0.5     | Conforms           |
| C22:0 | Behenic                   | ≤ 1.0     | Conforms           |
| C24:0 | Lignoceric                | ≤ 1.0     | Conforms           |

### Storage:

Store in full, original, tightly closed container in a cool place, away from heat and direct sunlight.

To limit oxidation the contents of the container should all be used once opened. Otherwise, where possible, the container should be nitrogen blanketed and tightly closed each time it is opened and the oil re-tested before use.

### Shelf Life:

Ultimately shelf life is dependant upon good packaging and proper storage.

Revised July 2013 (This document replaces any previously issued)