



CERTIFICATE OF ANALYSIS
VIRGIN FLAXSEED OIL

Batch No: 4507706
Best Before Date : May 2025

TEST	SPECIFICATION	ANALYSIS
Acid Value (mg KOH/g)	3.0 maximum	1.95
Saponification Value (mg KOH/g)	188 - 195	Complies
Iodine Value (gI ₂ /100g oil)	160 - 200	183.5
Peroxide Value (meqO ₂ /kg)	15.0 maximum	Complies
Unsaponifiable Matter (%)	1.5 maximum	Complies
Refraction Index (23°C)	1.478- 1.483	Complies
Relative Density (20°C)	0.926- 0.933	Complies
Volatile	0.2% maximum	Complies
Ash	0.15% maximum	Complies

FATTY ACID PROFILE (%)		
C16:0 Palmitic	5.0-7.0	Complies
C18:0 Stearic	2.0 – 8.0	Complies
C18:1 Oleic	20.0-30.0	Complies
C18:2 Linoleic	15.0 – 20.0	Complies
C18:3 Linolenic	45.0-55.0	Complies



GMO, Vegetarian & Vegan Suitability Statement

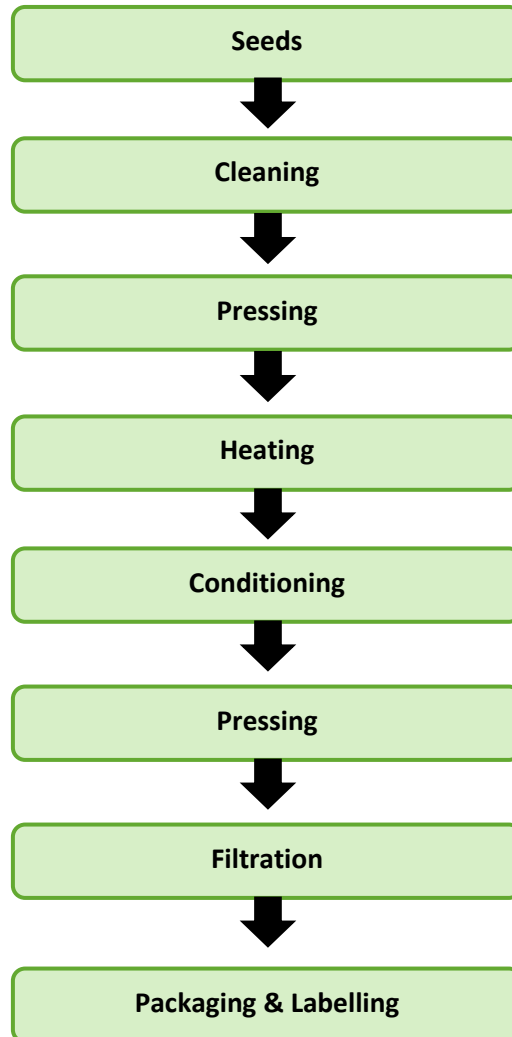
MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

We hereby state and certify that the the above is also not derived/ produced from a raw material that has been genetically modified.

16/06/2022

Flowchart

PRODUCT	Flaxseed Oil		
		DATE	14/09/2022



DISCLAIMER: 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 user's responsibility to satisfy himself as to the suitability of such information for his own particular use. Please note as this is a wholly natural material some parameters, in particular, appearance, colour and odour, may change due to natural variation and climate change. This in no way affects the quality and efficacy of the product. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



MATERIAL SAFETY DATA SHEET

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Flaxseed Oil			
Biological Definition					
INCI Name		Linum Usitatissimum Seed Oil			
Synonyms & Trade Names					
CAS No	8001-26-1	EC No.	232-278-6	EINECS No.	232-278-6
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data					
1.3 Details of the supplier of the safety data sheet					
Madar Corporation Limited 19-20 Sandleheath Industrial Estate Fordingbridge SP6 1PA					
1.4 Emergency Tel. No.		+ 44 (0) 1425 655 555			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
No additional data	
Classification (EC 1272/2008)	
Not classed as a hazardous substance.	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	

MATERIAL SAFETY DATA SHEET

None	
Signal Word	None
Contains	No additional data
Hazard Statements	
None	
Precautionary Statements	
None	
Supplementary Statements	
None	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No additional data
Adverse physio-chemical properties	No additional data
Adverse effects on human health	No additional data

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition	
<u>100.0% Flaxseed Oil*</u> CAS: 8001-26-1 Classification: Not classified as hazardous.	
*In raw form, an approximate fatty acid breakdown: 5.00 – 7.00% Palmitic Acid 3.00 – 6.00% Stearic Acid 20.0 – 30.0% Oleic Acid 15.0 – 20.0% Linoleic Acid 45.0 – 55.0% Linolenic Acid	

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove to fresh air immediately. Remain at rest in a position which is comfortable for breathing. If discomfort occurs/continues, seek medical attention.
Ingestion	Do NOT induce vomiting. Wash mouth with clean water and drink plenty of water. Never give anything by mouth to an unconscious person. If discomfort occurs/continues, seek medical attention.
Skin Contact	Remove contaminated clothing and wash before reuse. Wash skin immediately with soap and water. If discomfort occurs/continues, seek medical attention.

MATERIAL SAFETY DATA SHEET

Eye Contact	Rinse with clean water for a minimum of fifteen minutes. If safe to do so, remove contact lenses and continue rinsing. Ensure to rinse under eyelids. If discomfort occurs/continues, seek medical attention.
4.2 Most important symptoms and effects, both acute and delayed	No additional data
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	Foam, Sand, Extinguishing Powder, Carbon Dioxide Do NOT use Water.
5.2 Special hazards arising from the product	Produces a complex mixture of (irritating) fumes during combustion: CO, CO ₂ , Acroleine
5.3 Advice for firefighters	Wear self-contained respiratory equipment and appropriate protective clothing at all times.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation and avoid inhalation. Wear suitable personal protection equipment. Avoid contact with eyes and skin. Eliminate all ignition sources.
6.2 Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.
6.3 Methods and material for containment and cleaning up.	Absorb product if possible, with a suitable inert absorbent material (sand, earth, sawdust, universal binder, vermiculite) and shovel into appropriate containers for disposal (see section 13). If absorbed in special oil absorbers, sawdust or clothes, keep in fire-safe place as self-ignition may occur, therefore, it is advised to use inert absorbents only.
6.4 Reference to other sections	Section 13

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
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Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation of the working area, safety showers and an eye wash station near the workplace. Avoid release into the environment. Use appropriate personal protection equipment. Keep away from direct sunlight, heat, sparks, flames and other sources of ignition. Avoid exposure to air (oxygen). Use earthed equipment by preference. Do not eat, drink or smoke in the work area. Wash hands after handling material. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Store in original containers. Protect from heat, freezing and light including sunlight. Keep all containers tightly sealed when not in use.

7.3 Specific end use(s)

No additional data

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional data

8.2 Exposure controls

Protective Equipment



Process Conditions	No additional data
Engineering Measures	Install sufficient ventilation.
Respiratory Equipment	Not usually required if sufficient ventilation is provided. In the event of airborne contamination or ventilation failure; use suitable respiratory equipment/protection.
Hand Protection	Wear chemical- resistant hand gloves, suitable material; Neoprene/nitrile-rubber/rubber. Breakthrough time not determined.
Eye Protection	Wear safety goggles or full-face shield if risk of splashing.
Other Protection	No additional data
Hygiene Measures	Good hygiene practices are always advised, especially when handling chemicals, oils or any other similar type of product.
Personal Protection	No additional data

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Skin Protection	Wear appropriate protective clothing to prevent skin contact.
Environmental Exposure Controls	Do not allow runoff or discharge into the environment or drainage systems.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Liquid @ 20°C
Colour	Brown – Amber
Odour	Characteristic
Relative Density	0.926 - 0.933 @ 20°C
Flash Point (°C)	No additional data
Refractive Index	No additional data
Melting Point (°C)	± -20°C
Boiling Point (°C)	Decomposition takes place before boiling
Vapour Pressure	@ 20.00°C - very low @ 100.0°C - very low
Solubility in Water @20°C	Insoluble
Auto-ignition temperature (°C)	No additional data
9.2 Other information	
No additional data	

10. STABILITY AND REACTIVITY

10.1 Reactivity	
No additional data	
10.2 Chemical stability	
Expected to be stable under recommended conditions.	
10.3 Possible hazardous reactions	
Hazardous polymerisation does not occur.	
10.4 Conditions to Avoid	



MATERIAL SAFETY DATA SHEET

Very fine dispersion in contact with air (possible danger of self-ignition). Keep away from direct sunlight, heat, sparks, flames and other sources of ignition. Avoid exposure to air (oxygen). Used earthed equipment where possible.

10.5 Incompatible materials

Keep away from oxidising agents, strong acids and strong bases.

10.6 Hazardous Decomposition Products

Produces a complex mixture of (irritating) fumes during combustion. CO, CO₂, Acroleine.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	LD50 oral > 5.000 mg/kg
Skin corrosion / irritation	Not a known irritant
Serious eye damage / irritation	Not a known irritant
Respiratory or skin sensitisation	Not known to be sensitizing
Germ Cell Mutagenicity	No additional data
Carcinogenicity	No additional data
Reproductive toxicity	No additional data
STOT-single exposure	No additional data
STOT-repeated exposure	No additional data
Aspiration hazard	No additional data
Photo-toxicity	No additional data
Other Information	No additional data

12. ECOLOGICAL INFORMATION

12.1 Toxicity	
Aquatic toxicity: LC/EC/IC50 > 1.00	
12.2 Persistence & degradability	
Readily biodegradable	
12.3 Bioaccumulation Potential	



MATERIAL SAFETY DATA SHEET

BCF < 10	
12.4	Mobility in soil
No additional data	
12.5	Results of PBT and vPvB Assessment
Not considered to be persistent, bio accumulative and toxic (PBT) or very persistent and very bio accumulative (vPvB)	
12.6	Other adverse effects
No additional data	

13. DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods
Always dispose of this product in accordance with local and national regulations.	

14. TRANSPORT INFORMATION

14.1	UN number						
	<table> <tr> <td>UN No. Road</td><td>Not Regulated</td></tr> <tr> <td>UN No. SEA</td><td>Not Regulated</td></tr> <tr> <td>UN No. AIR</td><td>Not Regulated</td></tr> </table>	UN No. Road	Not Regulated	UN No. SEA	Not Regulated	UN No. AIR	Not Regulated
UN No. Road	Not Regulated						
UN No. SEA	Not Regulated						
UN No. AIR	Not Regulated						
14.2	UN proper shipping name						
Not applicable							
14.3	Transport hazard class(es)						
Not applicable							
14.4	Packing group						
Not applicable							
14.5	Environmental hazards						
No additional data							
14.6	Special precautions for user						
No additional data							
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC code						
No additional data							



MATERIAL SAFETY DATA SHEET

15. REGULATORY INFORMATION

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

No additional data

15.2 Chemical safety assessment

No additional data

16. OTHER INFORMATION

Hazard Statements in Full	None
Revision Date	25/01/2021
Rev No	7

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Product Specification

PRODUCT Flaxseed Oil Cold Pressed

DATE

10/06/2022

REVISION

11

DESCRIPTION

Linum Usitatissimum Seed Oil is the expressed oil from the dried ripe seed of the Linseed, *Linum usitatissimum* L., Linaceae

INCI NAME

Linum Usitatissimum Seed Oil

CAS NUMBER

8001-26-1

EC NUMBER

232-278-6

CHARACTERISTICS

APPEARANCE AT ROOM TEMPERATURE Liquid

COLOUR Brown – Amber

ODOUR Characteristic

ANALYSIS

SPECIFIC GRAVITY 0.9260 – 0.9330 @ 20°C

REFRACTIVE INDEX 1.4780 – 1.4830 @ 20°C

ACID VALUE ≤3.000

IODINE VALUE (WIJS) ≥175.0

COLOUR (GARDNER) ≤13.00

SAPONIFICATION VALUE 188.00 – 195.00

UNSATURATED MATTER (%) ≤1.500

VOLATILE (%) ≤2.000

ASH (%) ≤0.150

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