



**CERTIFICATE OF ANALYSIS**

**COTTON SEED REFINED OIL**

Batch No:	4458707
Best Before	January 2024

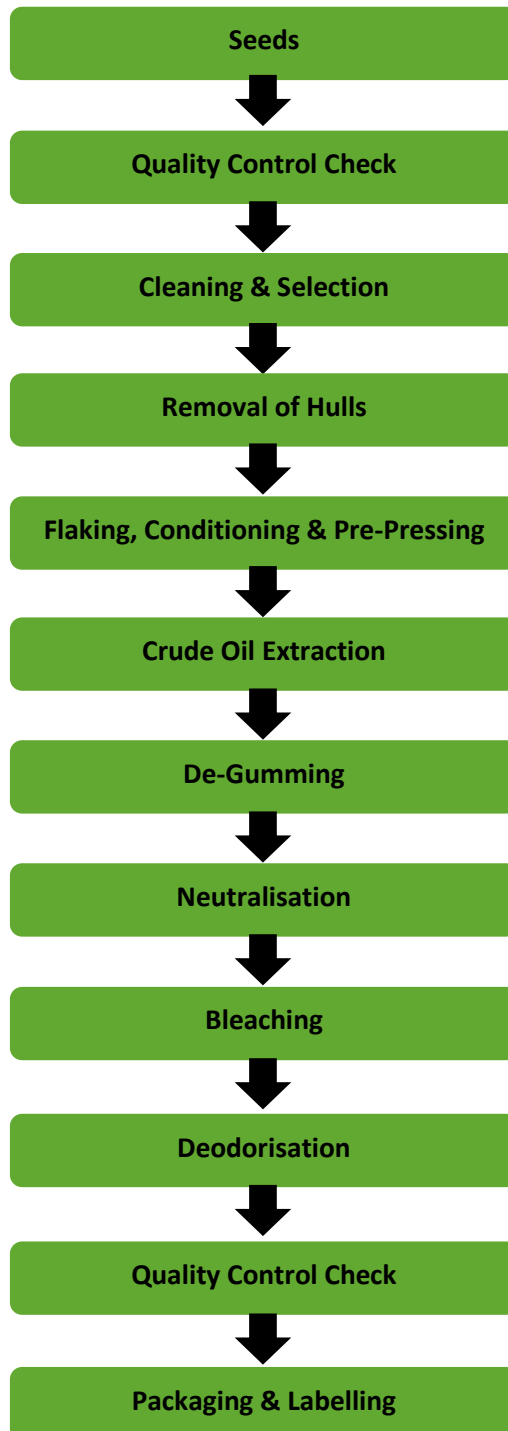
**Appearance:** Pale yellow liquid.  
**Odour:** Characteristic

TEST	SPECIFICATION	ANALYSIS
Specific Gravity @ 20°C (g/ml)	0.915 – 0.921	0.919
Refractive Index @ 20°C	1.467 – 1.475	1.472
Free Fatty Acid (% as oleic)	< 0.2	0.08
Iodine Value (mg/g)	105.0 – 120.0	114.4
Saponification Value (mg/KOH/g)	190.0 – 198.0	194.3
Peroxide Value (meq/kg)	< 5.0	0.55 (at time of production)
Acid Value (mg/KOH/g)	< 0.4	0.16

FATTY ACID PROFILE (%)		
C14:0 Myristic	< 2.0	0.74
C16:0 Palmitic	17.0 – 28.0	21.55
C16:1 Palmitoleic	< 2.0	0.48
C18:0 Stearic	1.0 – 4.0	2.52
C18:1 Oleic	13.0 – 25.0	17.05
C18:2 Linoleic	45.0 – 60.0	56.45
C18:3 Alpha Linolenic	< 2.0	0.10
C20:0 Icosanoic	< 1.0	0.25

This COA is produced electronically therefore no signature is required.

Product Name	Cotton Seed Oil Refined		
Date	29/01/2021	Product Code	OVCOTTSEED





**Document Date: 29/01/2021**

**COTTON SEED OIL REFINED WHC015 STATEMENT**

We can confirm that no material of GM origin has been used at any stage of the production of this product.

It is suitable for both vegetarian and vegan use, due this product being a vegetable oil. It is not derived from any animal products and has not been subject to animal testing by ourselves, our suppliers or any commissioned third party.

In accordance with Article 15 of the EU Cosmetics Regulation this material does not contain any CMR substances nor were any used or added during production. This product is not classified as a CMR substance.



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

1.1 Product Identifier					
Product Name		Cotton Seed Oil Refined.			
Biological Definition		Gossypium Herbaceum Seed Oil is the fixed oil expressed from the seeds of various species of the Cotton Seed.			
INCI Name		Gossypium Herbaceum Seed Oil			
Synonyms & Trade Names		-			
CAS-No	8001-29-4	EC No.	232-280-7	EINECS No.	232-280-7
1.2 Relative identified uses of the substance or mixture and uses advised against					
Suitable for cosmetic, pharma, food and professional applications only.					
1.3 Details of the supplier of the safety data sheet					
MADAR Corporation Limited 19 - 20 Sandleheath Industrial Estate Fordingbridge SP6 1PA  technical@madarcorporation.co.uk					
1.4 Emergency Tel. No.		+ 44 (0) 1425 655555			

## 02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Not classed as a hazardous substance.	
Classification (EC 1272/2008)	
Not classed as a hazardous substance.	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
None	
Signal Word	None
Contains	Contains no hazardous substances
Hazard Statements	
None	
Precautionary Statements	
None	
Supplementary Precautionary 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**

<b>3.1 Substances</b>	
<p><b>100% Gossypium Herbaceum Seed Oil</b>  CAS: 8001-29-4  Classification:  - Not classed as a hazardous substance.</p>	

### **04. FIRST AID MEASURES**

<b>4.1 Description of first aid measures</b>	
Inhalation	No specific measures. Remove affected person to fresh air. Seek medical attention if any discomfort continues.
Ingestion	No specific measures. Seek medical attention if discomfort occurs.
Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Seek medical attention if irritation continues.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
No additional data	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Treat symptomatically.	

### **05. FIRE-FIGHTING MEASURES**

<b>5.1 Extinguishing Media</b>	
Carbon dioxide (CO <sub>2</sub> ). Dry Chemical Powder. Foam. Do NOT use water.	
<b>5.2 Special hazards arising from the product</b>	
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 increase the hazard. Ignition hazard at welding at the empty container. Dangerous combustion residues: smoke, carbon monoxide, carbon dioxide.	
<b>5.3 Advice for firefighters</b>	
Wear self-contained respiratory equipment and appropriate protective clothing at all times.	

### **06. ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>
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	Remove sources of ignition, provide adequate ventilation, avoid contact with skin and eyes.
<b>6.2 Environmental Precautions</b>	
	Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority guidelines.
<b>6.3 Methods and material for containment and cleaning up.</b>	
	Cover with an inert, inorganic, non-combustible absorbent material (e.g., dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with current laws and regulations. If spillage on water occurs; Confine the spill immediately with booms. Warn other ships. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. In running waters, apply appropriate dispersants in accordance with local regulation.
<b>6.4 Reference to other sections</b>	
	Section 13

## **07. HANDLING AND STORAGE**

<b>7.1 Precautions for safe handling</b>	
	Keep containers leak proof closed and dry. Protect against sun/light. Prevent spills and leakages to avoid slip hazard.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
	Intrusion into soil to be avoided. Store the product in cool (max. at room temperature) and well-ventilated environment and keep away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations.
<b>7.3 Specific end use(s)</b>	
	No additional data

## **08. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>8.1 Control parameters</b>	
	None.
<b>8.2 Exposure controls</b>	
<b>Protective Equipment</b>	
	No special protective measures required.
<b>Process Conditions</b>	No special measures required.
<b>Engineering Measures</b>	No special measures required.
<b>Respiratory Equipment</b>	Ensure area is well ventilated.
<b>Hand Protection</b>	No special measures required.
<b>Eye Protection</b>	No special measures required.
<b>Other Protection</b>	No special measures required.
<b>Hygiene Measures</b>	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
<b>Personal Protection</b>	No special measures required.

Skin Protection	No special measures required.
Environmental Exposure Controls	Avoid discharging into drainage water.

## **09. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties	
Appearance	Clear liquid.
Colour	Pale yellow.
Odour	Characteristic
Relative Density	~0.918 @ 20°C.
Flash Point (°C)	>200.0°C
Refractive Index	~1.471 @ 20°C
Melting Point (°C)	No additional data
Boiling Point (°C)	>350.0°C
Vapour Pressure	No additional data
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	
Oxidation with atmospheric oxygen. Formation of free fatty acids.	
10.2 Chemical stability	
Chemically stable under the recommended handling and storage conditions.	
10.3 Possible hazardous reactions	
Reacts with oxidants.	
10.4 Conditions to Avoid	
Keep away from heat sources, open flames and sunlight.	
10.5 Incompatible materials	
Avoid contact with strong acids, alkalis and oxidising agents.	
10.6 Hazardous Decomposition Products	
Product does not decompose at proper handling.	

## **11. TOXOLOGICAL INFORMATION**

11.1 Information on toxicological effects	
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Acute Toxicity	In compliance with generally accepted uses and quantities are no negative impacts to be expected. LD50 oral: - not determined. LD50 dermal: - not determined. LC50: - not determined. Inhalation: - There is not expected negative impact. Ingestion: - There is not expected negative impact. Skin contact: - There is not expected negative impact. Eye contact: - There is not expected negative impact.
Skin corrosion / irritation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Serious eye damage / irritation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Respiratory or skin sensitisation	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Germ Cell Mutagenicity	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Carcinogenicity	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
Reproductive toxicity	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
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**

<b>12.1 Toxicity</b>
No additional data
<b>12.2 Persistence &amp; degradability</b>
Readily biodegradable.
<b>12.3 Bioaccumulation Potential</b>
No additional data





<b>12.4 Mobility in soil</b>
No additional data
<b>12.5 Results of PBT and vPvB Assessment</b>
No additional data
<b>12.6 Other adverse effects</b>
Do not allow product to enter streams, sewers or other waterways. Water hazard class; WGK-1.

### **13. DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>
Collect and dispose of waste product at an authorised disposal facility. Product remainders should not intrude soil or waters.

### **14. TRANSPORT INFORMATION**

<b>14.1 UN number</b>	
UN No. Road	Not bound by transport regulation.
UN No. SEA	Not bound by transport regulation.
UN No. AIR	Not bound by transport regulation.
<b>14.2 UN proper shipping name</b>	
None.	
<b>14.3 Transport hazard class(es)</b>	
Not bound by transport regulation.	
<b>14.4 Packing group</b>	
No additional data	
<b>14.5 Environmental hazards</b>	
No additional data	
<b>14.6 Special precautions for user</b>	
See sections 6 – 8.	
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	
Not defined.	

### **15. REGULATORY INFORMATION**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations. CHIP for everyone HSG (108). Workplace Exposure Limits EH40 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), establishing a European



Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### 15.2 Chemical safety assessment

No additional data.

### **16. OTHER INFORMATION**

Hazard Statements in Full	None
Revision Date	29/01/2021
Rev No	7

**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.



Product Name		Cotton Seed Oil Refined		
Date	29/01/2021	Product Code	OVCOTTSEED	Rev
Description	Gossypium Herbaceum Seed Oil is the fixed oil expressed from the seeds of various species of the Cotton Seed.			
Appearance	Liquid, Pale Yellow			
Odour	Characteristic			
Origin	Netherlands			
INCI Name	Gossypium Herbaceum Seed oil			
CAS Number	8001-29-4	EC number	232-280-7	

### TEST SPECIFICATION

Analytical Test		Specification Range
Specific Gravity @ 20°C (g/ml)		0.915 – 0.921
Refractive Index @ 20°C		1.467 – 1.475
Peroxide Value (meq/Kg) (at time of production analysis)		≤ 5.0
Saponification Value (mg KOH/g)		190.0 – 198.0
Iodine value		105.0 – 120.0
Acid Value (mg KOH/g)		≤ 0.4
Fatty Acid Profile (%)		
C14:0	Myristic Acid	≤2.0
C16:0	Palmitic Acid	17.0 – 28.0
C16:1	Palmitoleic Acid	≤2.0
C18:0	Stearic Acid	1.0 – 4.0
C18:1	Oleic Acid	13.0 – 25.0
C18:2	Linoleic Acid	45.0 – 60.0
C18:3	Linolenic Acid	≤2.0
C20:0	Arachidic Acid	≤1.0

### STORAGE

Store in a cool, dry, well-ventilated place. Keep away from heat and sunlight.

### STABILITY

If stored for twenty-four months, check quality of product before use.



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**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.**