



**CERTIFICATE OF ANALYSIS**

**COTTON SEED REFINED OIL**

|             |          |
|-------------|----------|
| Batch No:   | 4507709  |
| Best Before | May 2025 |
|             |          |

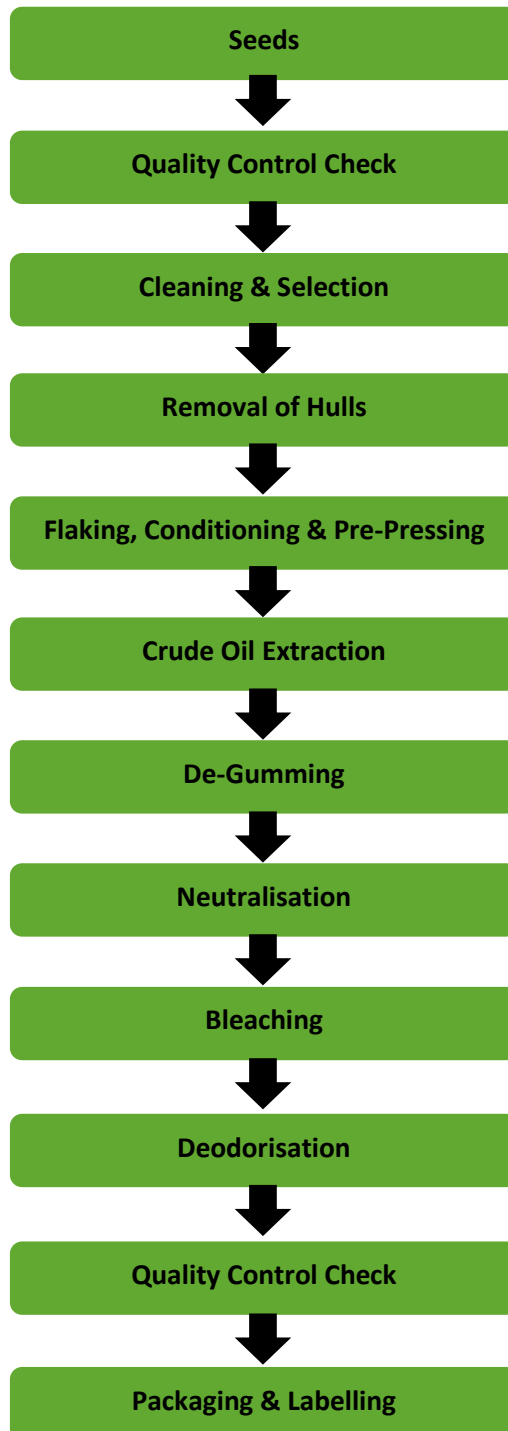
**Appearance:** Clear to Golden Yellow  
**Odour:** Characteristic

| TEST                            | SPECIFICATION | ANALYSIS |
|---------------------------------|---------------|----------|
| Specific Gravity @ 20°C (g/ml)  | 0.915 – 0.921 | 0.918    |
| Refractive Index @ 20°C         | 1.467 – 1.475 | 1.471    |
| Free Fatty Acid (% as oleic)    | < 0.2         | 0.3      |
| Iodine Value (mg/g)             | 105.0 – 120.0 | 110.0    |
| Saponification Value (mg/KOH/g) | 190.0 – 198.0 | 194.6    |
| Peroxide Value (meq/kg)         | < 5.0         | 0.22     |
| Acid Value (mg/KOH/g)           | < 0.4         | 0.6      |

| FATTY ACID PROFILE (%) |             |      |
|------------------------|-------------|------|
| C14:0 Myristic         | < 2.0       | 0.6  |
| C16:0 Palmitic         | 17.0 – 28.0 | 23.7 |
| C16:1 Palmitoleic      | < 2.0       | 0.5  |
| C18:0 Stearic          | 1.0 – 4.0   | 2.50 |
| C18:1 Oleic            | 13.0 – 25.0 | 17.1 |
| C18:2 Linoleic         | 45.0 – 60.0 | 52.8 |
| C18:3 Alpha Linolenic  | < 2.0       | 0.4  |
| C20:0 Icosanoic        | < 1.0       | 0.2  |

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<br>19 - 20 Sandleheath Industrial Estate<br>Fordingbridge<br>SP6 1PA<br><br>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><br/> CAS: 8001-29-4<br/> Classification:<br/> - 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.<br>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> |
|--|



|  |  |
|--|--|
|  | 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**

|  |                    |
|--|--------------------|
| <b>9.1 Information on basic physical and chemical properties</b> |                    |
| 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 |
| <b>9.2 Other information</b>                                     |                    |
| No additional data   |                    |

## **10. STABILITY AND REACTIVITY**

|  |  |
|--|--|
| <b>10.1 Reactivity</b>   |  |
| Oxidation with atmospheric oxygen. Formation of free fatty acids.        |  |
| <b>10.2 Chemical stability</b>   |  |
| Chemically stable under the recommended handling and storage conditions. |  |
| <b>10.3 Possible hazardous reactions</b>                                 |  |
| Reacts with oxidants.  |  |
| <b>10.4 Conditions to Avoid</b>  |  |
| Keep away from heat sources, open flames and sunlight.                   |  |
| <b>10.5 Incompatible materials</b>                                       |  |
| Avoid contact with strong acids, alkalis and oxidising agents.           |  |
| <b>10.6 Hazardous Decomposition Products</b>                             |  |
| Product does not decompose at proper handling.                           |  |

## **11. TOXOLOGICAL INFORMATION**

|  |
|--|
| <b>11.1 Information on toxicological effects</b> |
|--|



|                                   |   |
|-----------------------------------|---|
| Acute Toxicity                    | In compliance with generally accepted uses and quantities are no negative impacts to be expected.<br>LD50 oral:<br>- not determined.<br>LD50 dermal:<br>- not determined.<br>LC50:<br>- not determined.<br>Inhalation:<br>- There is not expected negative impact.<br>Ingestion:<br>- There is not expected negative impact.<br>Skin contact:<br>- There is not expected negative impact.<br>Eye contact:<br>- 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)<br>(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.**