

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CASTOR OIL BP, COLD PRESSED

Lot Number 4512401

PRODUCT INCI: RICINUS COMMUNIS SEED OIL

PRODUCT CODE: OCCASTOIL

CAS NUMBER: 8001-79-4 EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: COLD PRESSED

Best Before End JULY 2025

| ANALYTICAL DETAILS | RANGE % | RESULTS |
|----------------------------------|-------------------|-------------|
| APPEARANCE | OILY LIQUID | - |
| Odour | ODOURLESS | - |
| COLOUR | CLEAR - YELLOW | - |
| COLOUR LOVIBOND | ≤2 R, ≤20Y | 1.9R, 18.0Y |
| SPECIFIC GRAVITY @ 25°C | 0.958 - 0.969 | 0.9623 |
| REFRACTIVE INDEX @ 20°C | 1.477 – 1.481 | 1.4788 |
| FREE FATTY ACID (% AS OLEIC) | < 1.0 | 0.43 |
| IODINE VALUE (G/100G) | 82.0 - 90.0 | 86.26 |
| ACID VALUE | <2.0 | 0.86 |
| SAPONIFICATION VALUE (MG KOH/GR) | 177.0 – 187.0 | 180.42 |
| UNSAPONIFIABLE MATTER | ≤1.0 | 0.34 |
| Hydroxl Value (mgkoh/g) | 160.0 – 169.0 | 164.78 |

| FATTY ACID Profile | | Range % | RESULTS |
|-----------------------|------------|-------------|---------|
| C-CHAIN | ACID NAME | | |
| C16:0 | Palmitic | 1.0 – 2.0 | 1.38 |
| C18:0 | STEARIC | 1.0 - 3.0 | 1.61 |
| C18:1 | Oleic | 2.0 - 5.0 | 3.47 |
| C18:1 | RICINOLEIC | 85.0 - 90.0 | 87.65 |
| C18:2 | Linoleic | 3.0 – 7.0 | 4.54 |

biOrigins

ALLERGEN STATEMENT

PRODUCT NAME: CASTOR OIL (BP), COLD PRESSED

COSMETIC ALLERGENS

| Annex Illa | | | TOTAL ALLERGEN |
|------------|---|-------------|----------------|
| Reference: | | CAS NUMBER: | INCLUSION (%): |
| 67 | AMYL CINNAMAL | 122-40-7 | 0.000 |
| 68 | BENZYL ALCOHOL | 100-51-6 | 0.000 |
| 69 | CINNAMYL ALCOHOL | 104-54-1 | 0.000 |
| 70 | CITRAL | 5392-40-5 | 0.000 |
| 71 | EUGENOL | 97-53-0 | 0.000 |
| 72 | HYDROXY-CITRONELLAL | 107-75-5 | 0.000 |
| 73 | ISO EUGENOL | 97-54-1 | 0.000 |
| 74 | AMYLCIN-NAMYL ALCOHOL | 101-85-9 | 0.000 |
| 75 | BENZYL SALICYLATE | 118-58-1 | 0.000 |
| 76 | CINNAMAL | 104-55-2 | 0.000 |
| 77 | COUMARIN | 91-64-5 | 0.000 |
| 78 | GERANIOL | 106-24-1 | 0.000 |
| 79 | HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE | 31906-04-4 | 0.000 |
| 80 | ANISE ALCOHOL | 105-13-5 | 0.000 |
| 81 | BENZYL CINNAMATE | 103-41-3 | 0.000 |
| 82 | FARNESOL | 4602-84-0 | 0.000 |
| 83 | BUTYLPHENYL METHYLPROPIONAL | 80-54-6 | 0.000 |
| 84 | LINALOOL | 78-70-6 | 0.000 |
| 85 | BENZYL BENZOATE | 120-51-4 | 0.000 |
| 86 | CITRONELLOL | 106-22-9 | 0.000 |
| 87 | HEXYL CINNAM-ALDEHYDE | 101-86-0 | 0.000 |
| 88 | LIMONENE | 5989-27-5 | 0.000 |
| 89 | METHYL 2-OCTYNOATE | 111-12-6 | 0.000 |
| 90 | ALPHA-ISOMETHYL IONONE | 127-51-5 | 0.000 |
| 91 | EVERNIA PRUNASTRI EXTRACT | 90028-68-5 | 0.000 |
| 92 | EVERNIA FURFURACEA EXTRACT | 90028-67-4 | 0.000 |



FOOD ALLERGENS

| Annex Illa | | PRESENT IN | CONTAMINATION | FACTORY |
|------------|-----------------------------|------------|---------------|-----------|
| Reference: | | PRODUCT: | PRESENCE: | PRESENCE: |
| 1 | CEREALS (CONTAINING GLUTEN) | NO | NO | YES |
| 2 | CRUSTACEANS | NO | NO | NO |
| 3 | EGGS | NO | NO | NO |
| 4 | FISH | NO | NO | NO |
| 5 | PEANUTS | NO | NO | YES |
| 6 | SOYA | NO | NO | YES |
| 7 | MILK | NO | NO | YES |
| 8 | NUTS | NO | NO | YES |
| 9 | CELERY & CELERIAC | NO | NO | YES |
| 10 | MUSTARD | NO | NO | YES |
| 11 | SESAME | NO | NO | YES |
| 12 | SULPHUR DIOXIDE & SULPHITES | NO | NO | NO |
| 13 | LUPIN | NO | NO | NO |
| 14 | MOLLUSC | NO | NO | NO |



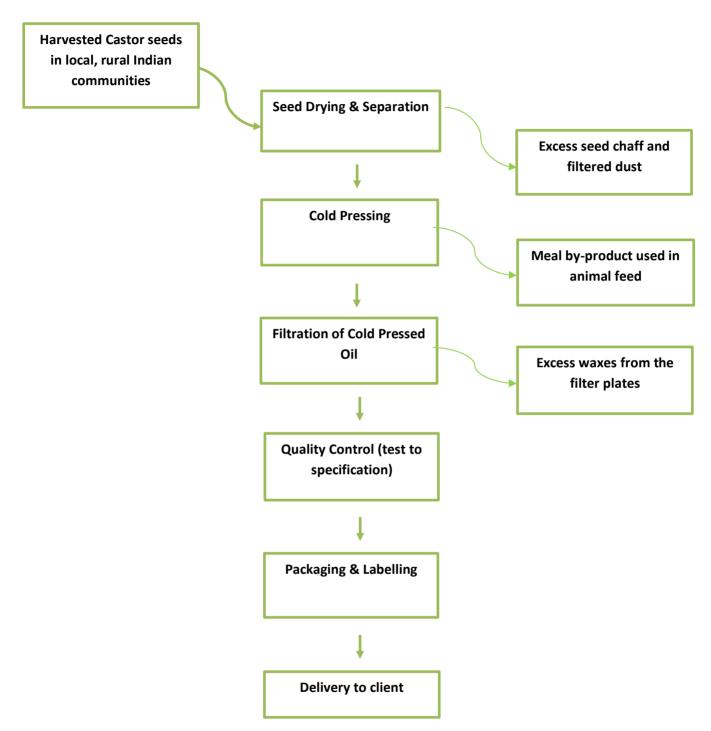
Composition Statement & Manufacturing Flow Chart:

We hereby confirm the following composition breakdown & manufacturing process flow;

Castor Oil (BP), Cold Pressed

| INCI Name | % Inclusion | CAS Number |
|-----------------------|-------------|------------|
| Ricinus Communis Seed | 100% | 8001-79-4 |







GMO Statement

PRODUCT NAME: Castor Oil

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

13-03/2023



Material Safety Data Sheet

EU Regulation: 2020/878

| SECTION 1: Identification of the substance/mixture and of the company/undertaking | | | | | |
|---|--|---------------------------|------------------------------|-----------|--|
| 1.1 Product Identification | | | | | |
| Product Name | CASTOR OIL (BP), CC | old Pressed | | | |
| Biological Definition | Ricinus Communis S | EED IS A FIXED | OIL OBTAINED FROM THE CASTOR | SEED | |
| INCI Name | Ricinus Communis S | RICINUS COMMUNIS SEED OIL | | | |
| Synonyms & Trade Names | CASTOR BP OIL | | | | |
| Internal Product Code | | | | | |
| CAS-No | 8001-79-4 EC No. 232-293-8 EINECS No. 232-293-8 | | | 232-293-8 | |
| | | | | | |
| 1.2 Details of the supplier of the safety data sheet | | | | | |
| Company Address | Madar Corporation Limited 19 - 20 Sandleheath Industrial Estate, Fordingbridge, SP6 1PA | | | | |
| Email | technical@madarcorporation.co.uk | | | | |
| 1.3 Details of the supplier of the safety data sheet | | | | | |
| Emergency Contacts | 01425 655 555 | | | | |



SECTION 2: Hazards Identification

| 2.1 Classification of the substance or mixture | | |
|--|--|--|
| Classification (67/548/EEC) | This product is not dangerous according to REACH Regulation 1907/2006. | |
| Classification (EU1272/2008) | This product does not belong to any list of substances supposedly hazardous to human or animal health according to EU Regulation 1272/2008 & any further amendments, nor to those having recognized exposition limits. Care should be taken when handling hot oil as it may constitute a burn hazard. Spills can constitute a slippage hazard. | |
| 2.2 Label Elements | Label in accordance with Regulation (EC) No 1272/2008. | |
| GHS Label | None. | |
| Signal Word | None. | |
| Contains | None. | |
| Hazards Statement | None. | |
| Signal Word | None. | |
| Precautionary Statements | None. | |
| Supplementary Precautionary Statements None. | | |
| Section 16 (Other Information): Risk & Safety phrases in full. | | |
| 2.3 Other Hazards | | |
| Adverse physio-chemical properties | None. | |
| Adverse effects on human health | None. | |
| | | |
| SECTION 3: Composition of Ingredien | ts | |
| 3.1 Substances | Not Applicable. | |
| 3.2 Mixtures | Not Applicable. | |
| | Not Applicable. | |

| SECTION 4: First Aid Measures | |
|-----------------------------------|--|
| 4.1 | |
| Description of First Aid Measures | |
| General Information | Always remove contaminated clothing immediately. |
| Inhalation | Not expected for this particular product, however always best avoiding proactive inhalation. |
| Ingestion | No instruction as this is a non-toxic product. |
| Skin Contact | No instruction as this is a non-toxic product. |



| Eye Contact | Wash immediately & thoroughly with clean tap water. | | |
|--|--|--|--|
| 4.2 Most important symptoms & effects (Acute & | None. | | |
| Delayed) | | | |
| 4.3 Indication of any immediate medical attention or special treatment required | Not Applicable. | | |
| SECTION 5: Fire Fighting Measures | | | |
| 5.1 Extinguishing material | Foam, Co2, Dry Chemical Powder. | | |
| 5.2 Special hazards arising from the substance Or mixture | This product may only form ignitable mixtures or burn above the flash point. Dangerous combustion products include smoke & oxides of carbon. | | |
| 5.3 Advice for fire-fighters | Standard. Wear self-contained breathing apparatus in confined spaces. | | |
| SECTION 6: Accidental Release Measur | es | | |
| 6.1 | None Required. | | |
| Personal precautions 6.2 | | | |
| Environmental precautions | None Required. | | |
| 6.3 Methods & material for containment and cleaning up | Spills can be absorbed by cloth or sawdust, washed away with water & cleaned with sodic products. | | |
| 4 Refer & consider section 8. | | | |
| References to other sections Refer & consider section 13. | | | |
| SECTION 7: Handling & Storage | Handle in accordance with good hygiene and safety practice. Keep containers sealed when not in use. Prevent | | |
| spills & leaks to avoid slip hazard. Always wear personal protective clothing (refer to section 8). Do not drink, sniff or smoke whilst handling this product. Provide suitable mechanical equipment for the safe han of drums & heavy packages. | | | |
| 7.2 Conditions for safe storage, including any incompatibilities Keep the product container tightly closed, in a dry, ventilated area (at temperatures <20°C). Keep potential sources of ignition and protected from light. Maintain limited contact with oxygen. | | | |
| 7.3 Specific end use(s) | No Data. | | |
| SECTION 8: Exposure Controls & Personal Protection | | | |
| 8.1 Control Parameters | None. | | |
| 8.2 Exposure Controls | | | |
| Eye Protection | n Not required as a non-toxic product, however we still recommend taking precautions by wearing protective eye-wear when handling the product. | | |
| Hand Protection | None. | | |
| Respiratory Equipment | None. | | |
| Hygiene Measures None. | | | |
| Engineering Measures None. | | | |
| | | | |
| SECTION 9: Physical & Chemical | | | |
| realities a ling situal de Glicililitua | | | |



| 9.1 Physical & Chemical Properties | | |
|--|--|--|
| Appearance | Viscous oily liquid | |
| Colour | CLEAR – PALE YELLOW | |
| Odour | CHARACTERISTIC | |
| Relative Density | 0.958 – 0.970 | |
| Flash Point (°C) | >280°C. | |
| Refractive Index | 1.477 – 1.481 | |
| Melting Point (°C) | NOT APPLICABLE | |
| Boiling Point (°C) | >100°C. | |
| Vapour Pressure | NO DATA. | |
| Solubility in Water @ 20°C | INSOLUBLE. | |
| 9.2 Other Information | NO DATA. | |
| SECTION 10: Stability & Reactivity | | |
| 10.1 Reactivity | Not Applicable. | |
| 10.2 Chemical stability | Stable under suggested storage conditions (<20°C). | |
| 10.3 Possibility of hazardous reactions | No. | |
| 10.4 Conditions to avoid | Storage at high temperatures. Do not store above 20°C. | |
| 10.5 Incompatible materials | Concentrated acids, alkalis & oxidising agents. | |
| 10.6 Hazardous decomposition products | This product does not decompose under normal conditions. Under fire conditions the product will produce a mixture of irritating fumes & smoke. | |

| SECTION 11: Toxicological Information | |
|---------------------------------------|---|
| 11.1 Toxicological effects | |
| Acute Toxicity | A non-toxic product. For pharmaceutical & cosmetic use only. This product does not carry a microbiological specification as it is sterilised 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 colorants, preservatives or UV filters (Annex II – VI of EU regulation 1223/2009). |
| Skin irritation | Not Applicable. |
| Eye damage or irritation | Not Applicable. |
| Respiratory or skin sensitivity | Not Applicable. |
| Germ cell mutagenicity | Not Applicable. |
| Carcinogenicity | Not Applicable. |
| Reproductive toxicity | Not Applicable. |



| STOT – single exposure | Not Applicable. |
|--|--|
| STOT – repeated exposure | Not Applicable. |
| Aspiration hazard | Not Applicable. |
| Other information | Not Applicable. |
| SECTION 12: Ecological Information | |
| 12.1 Toxicity | Low - None. |
| 12.2 Persistence & degradability | >90% (OECD) |
| 12.3 Bio- accumulative potential | None. |
| 12.4 Mobility in soil | Low – None. |
| 12.5 Results of PBT & VPVB assessment | Not Available. |
| 12.6 Other adverse effects | None. |
| SECTION 13: Disposal Information | |
| 13.1 Waste treatment methods | Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with local & national waste regulations. |

| SECTION 14: Transport Information | | |
|-----------------------------------|---|--|
| 14.1 Transport Information | | |
| Warning icon | Road (ADR), Rail (RID), Sea (IMDG) and Air (ICAO), transport not restricted in drums or food tankers. | |
| Shipping Name | Not Applicable. | |
| UN Number (Road) | Not Applicable. | |
| ADR Class | Not Applicable. | |
| Hazard Number (ADR) | Not Applicable. | |
| Hazchem Code | Not Applicable. | |
| UN Number (Sea) | Not Applicable. | |
| IMDG Class | Not Applicable. | |
| IMDG Pack GR. | Not Applicable. | |
| EMS | Not Applicable. | |
| UN Number (Air) | Not Applicable. | |
| Air Class | Not Applicable. | |
| Air Pack GR. | Not Applicable. | |
| | | |

15.1



| Product specific safety, health & environmental regulations & legislation | |
|---|---|
| | Regulation (EC) No 1907/2006 of the European Parliament and of the council of $18^{\rm th}$ |
| | December 2006. Concerning the registration, evaluation, authorization & restriction of |
| EU Directives | chemicals (REACH), establishing a European Chemicals Agency, amending Directive |
| | 199/45/EC and repealing council regulation (EEC) No793/93 & commission regulation |
| | (EC) No1488/94 as well as council directive 76/769/EEC & commission directive |
| | 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (including amendments). |
| Statutory Instruments | The Chemicals (Hazard Information & Packaging for Supply Regulations 2009 (S.I.2009 |
| | No 716). |
| Approved Code of Practice | Classification & labelling of substances & preparations dangerous for supply. Safety data |
| | sheets for substances & preparations. |
| Guidance Notes | Workplace exposure limits EH40. CHIP for everyone HSG 108. |
| 15.2 | Assessment has not been carried out as this is a non-hazardous material according to |
| Chemical Safety Assessment | article 31 of REACH 1907/2006. |

| SECTION 16: Other Information | | |
|---|---|--|
| Allergens: | None. | |
| Training Instructions: Refer to possible hazard before use of this product. | | |
| Abbreviations & Acronyms: | | |
| MSDS | Material Safety Data Sheet. | |
| INCI | International Nomenclature of Cosmetic Ingredients. | |
| CAS | Chemical Abstract Service. | |
| IMDG | International Maritime code for Dangerous Goods. | |
| ADR | Accord European sur le transport des merchandises Dangereuses par Route (European Agreement concerning the international Carriage of Dangerous goods by Road). | |
| RID | International Carriage of Dangerous Goods by Rail. | |
| ICAO | International Civil Aviation Organization. | |
| ADN | International Carriage of Dangerous Goods by Inland Waterways. | |
| GHS | Globally Harmonized System of classification & labelling of chemicals. | |
| Trem Card | Transport Emergency Card. | |
| STOT | Specific Target Organ Toxicity. | |



| Documentation Revision | | |
|-----------------------------|--------------------|--|
| Date | Change Description | |
| 10 th April 2018 | Data Launch | |
| November 2020 | Review | |
| January 2023 | Review | |



SPECIFICATION SHEET

PRODUCT NAME: CASTOR OIL BP, COLD PRESSED

PRODUCT INCI: RICINUS COMMUNIS SEED

CAS NUMBER: 8001-79-4

EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: COLD PRESSED

SHELF LIFE: 12 MONTHS

DOCUMENTATION REVIEWED: MAY 2018

| ANALYTICAL DETAILS | RANGE % |
|----------------------------------|---------------------|
| Appearance | VISCOUS OILY LIQUID |
| Odour | CHARACTERISTIC |
| COLOUR | CLEAR – PALE YELLOW |
| RELATIVE DENSITY @ 20°C (G/ML) | 0.958 – 0.970 |
| REFRACTIVE INDEX @ 20°C | 1.477 – 1.481 |
| Peroxide Value (meq O_2/kg) | <15.0 |
| IODINE VALUE (G $/100$ G) | 82.0 - 90.0 |
| FREE FATTY ACID | <1.0 |
| ACID VALUE | <2.0 |
| Saponification Value (MG KOH/GR) | 176.0 – 187.0 |
| HYDROXL VALUE (MGKOH/G) | >160.0 |
| UNSAPONIFIABLE MATTER (%) | <0.8 |
| OPTICAL ROTATION @ 20°C | +3.5 - +6.0 |
| MOISTURE & IMPURITIES | <0.30 |

| FATTY ACID PROFILE | | RANGE % |
|--------------------|------------|-------------|
| C-CHAIN | | |
| C16:0 | Palmitic | <2.0 |
| C18:0 | STEARIC | <2.5 |
| C18:1 | Oleic | 2.5 – 7.0 |
| C18:1 | RICINOLEIC | 85.0 - 95.0 |
| C18:2 | Linoleic | 2.5 – 7.0 |
| C18:3 | LINOLENIC | <1.0 |
| C20:1 | ICOSENOIC | <1.0 |



Vegetarian & Vegan Suitability Statement

PRODUCT NAME: Castor Oil

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.

13-03-2023