

TECHNICAL DATA SHEET

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|-----------------------|------------------------------|
| Product Name | ECHIUM OIL |
| Botanical Name | Echium plantagineum |
| Product Code | PCO4015 |
| INCI Name | Echium plantagineum Seed Oil |

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|--------------------------|-----------------------|
| Part Used | Seeds |
| Extraction Method | Cold Pressed |
| Quality | 100% Pure and Natural |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> |
|---------------------------------|--|
| Appearance | Pale yellow to golden colored liquid |
| Odour | Very mild characteristic odour |
| Specific Gravity (g/mL) | 0.900 - 0.918 @ 25°C |
| Refractive Index | 1.460 - 1.490 @ 20°C |
| Acid Value (mgKOH/g) | Less than 1.0 |
| Moisture (%) | Maximum 0.1 |
| Insoluble Impurities (%) | Maximum 0.1 |
| Solubility | Soluble in cosmetic esters and fixed oils; Insoluble in water |

DISCLAIMER: Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Paras Perfumers provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose.

FATTY ACID COMPOSITION:

| <u>FATTY ACID</u> | <u>C-CHAIN</u> | <u>SPECIFICATIONS (%)</u> |
|-----------------------------|-----------------------|----------------------------------|
| Palmitic Acid | C16:0 | 3.00 – 8.00 |
| Stearic Acid | C18:0 | 1.00 – 5.00 |
| Oleic Acid | C18:1 (n-9) | 12.00 – 18.00 |
| Linoleic Acid | C18:2 (n-6) | 10.00 – 16.00 |
| Alpha-Linolenic Acid | C18:3 (n-3) | 26.00 – 40.00 |
| Gamma-Linolenic Acid | C18:3 (n-6) | 7.00 – 13.00 |
| Stearidonic Acid | C18:4 (n-3) | 11.00 – 18.00 |

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.