# TECHNICAL DATA SHEET

<table>
<thead>
<tr>
<th>Product Name</th>
<th>ABBYSSINIAN (CRAMBE SEED) OIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botanical Name</td>
<td>Crambe abyssinica</td>
</tr>
<tr>
<td>Product Code</td>
<td>PCO4076</td>
</tr>
<tr>
<td>INCI Name</td>
<td>Crambe Abyssinica Seed Oil</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Pale yellow to golden yellow colored liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic faint odour</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.465 - 1.475 @ 20°C</td>
</tr>
<tr>
<td>Specific Gravity (g/mL)</td>
<td>0.900 - 0.925 @ 20°C</td>
</tr>
<tr>
<td>Saponification Value (mgKOH/g)</td>
<td>160 - 175</td>
</tr>
<tr>
<td>Peroxide Value (meq O₂/Kg)</td>
<td>Less than 5.0</td>
</tr>
<tr>
<td>Iodine Value (g I₂/100g)</td>
<td>85 - 95</td>
</tr>
<tr>
<td>Acid Value (mgKOH/g)</td>
<td>Less than 0.5</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in cosmetic esters and fixed oils; Insoluble in water</td>
</tr>
</tbody>
</table>

## FATTY ACID COMPOSITION:

<table>
<thead>
<tr>
<th>FATTY ACID</th>
<th>C-CHAIN</th>
<th>SPECIFICATIONS (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palmitic Acid</td>
<td>C16:0</td>
<td>1.00 – 4.00</td>
</tr>
<tr>
<td>Stearic Acid</td>
<td>C18:0</td>
<td>0.50 – 2.00</td>
</tr>
<tr>
<td>Oleic Acid</td>
<td>C18:1 (n-9)</td>
<td>10.00 – 25.00</td>
</tr>
<tr>
<td>Linoleic Acid</td>
<td>C18:2 (n 6)</td>
<td>7.00 15.00</td>
</tr>
<tr>
<td>Alpha-Linolenic Acid</td>
<td>C18:3 (n-3)</td>
<td>2.00 – 5.00</td>
</tr>
<tr>
<td>11-Eicosenoic Acid</td>
<td>C20:1 (n-9)</td>
<td>2.00 – 6.00</td>
</tr>
<tr>
<td>Behenic Acid</td>
<td>C22:0</td>
<td>1.00 – 3.00</td>
</tr>
<tr>
<td>Erucic Acid</td>
<td>C22:1 (n-9)</td>
<td>50.00 – 65.00</td>
</tr>
<tr>
<td>Lignoceric Acid</td>
<td>C24:0</td>
<td>Maximum 1.00</td>
</tr>
</tbody>
</table>

## 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.*

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