**Desert date oil technical sheet**

**Process:**
cold pressure

**Pressed part of the plant:**
almond

**Botanical name:**
*Balanites Aegyptiaca*

**Vernacular name:**
Sump (wolof)

**Quality:**
pure and natural, without any chemical treatment

**Oxidative potential:**
little sensitive; oxidative stability

**Country of origin:**
Senegal

**Farming:**
wild

**Organoleptic properties:**
- **Appearance:** liquid at room temperature, solidifies below 5°C.
- **Color:** pale yellow, translucent
- **Odor:** characteristic
- **Taste:** without pronounced taste

**Physical and chemical characteristics:**
- **Density:** 0.918
- **Viscosity:** 34 - 44 mPa.S
- **Acid value:** 2.38 mg KOH/g oil
- **Iodine value:** 92.45 (g iodine /100g oil)
- **Peroxyde value:** 2.31 (meq O2/kg oil)
- **Unsaponifiables:** 0.5%

**Storage conditions:**
To store in a dry place, away from heat and light.
Fatty acids composition:

Four fatty acids compose 99% of the oil:

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th>Range of values (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly unsaturated fatty acids:</td>
<td></td>
</tr>
<tr>
<td>Linoleic acid</td>
<td>37,0</td>
</tr>
<tr>
<td>Oleic acid</td>
<td>34,5</td>
</tr>
<tr>
<td>Saturated fatty acids:</td>
<td></td>
</tr>
<tr>
<td>Palmitic acid</td>
<td>15,5</td>
</tr>
<tr>
<td>Stearic acid</td>
<td>12,0</td>
</tr>
</tbody>
</table>

It contains low levels of polyunsaturated fatty acids with long chains: EPA, DPA, DHA.

Properties and uses:

- **Use in cosmetic:** Oil powerfully moisturizing, it softens and repairs dry, rough and peeled skins. This soothing oil is used in traditional medicine for treatment of skin diseases and is also used for making soap.

- **Food use:** Desert date-palm oil may be used as a cooking oil because of its high smoke point or used as such by adding it to food to give them a taste very appreciated by consumers. Moreover, it is a regulator of blood pressure.

Values presented in this technical sheet are given as information, real values will be provided in the analysis reports.