MIGLYOL® 8810

INCI: Butylene Glycol Dicaprylate/Dicaprate

- Emollient with good spreadability
- Very low viscosity
- Non-oily skin feeling
MIGLYOL® 8810

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1. Description:
MIGLYOL® 8810 is an ester based on 1,3-Butanediol and caprylic/capric fatty acids derived from coconut- and palm kernel oil. It is a saturated, non-oxidizing neutral oil used e.g. in hypo-allergenic cosmetics as a non-sensitizing oil component. MIGLYOL® 8810 is a low-viscosity, colorless oil with neutral odor and taste.

2. Chemical and Physical Properties:

<table>
<thead>
<tr>
<th>Tests</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid value</td>
<td>max. 0.1</td>
<td>mg KOH/g</td>
</tr>
<tr>
<td>Saponification value</td>
<td>295 - 315</td>
<td>mg KOH/g</td>
</tr>
<tr>
<td>Hydroxyl value</td>
<td>max. 5</td>
<td>mg KOH/g</td>
</tr>
<tr>
<td>Iodine value</td>
<td>max. 1.0</td>
<td>g I₂/100 g</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1,442 – 1,444</td>
<td></td>
</tr>
<tr>
<td>Specific gravity *</td>
<td>0.91 – 0.93</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Heavy metals</td>
<td>max. 10</td>
<td>°C</td>
</tr>
</tbody>
</table>

* not included in CoA

3. Application:
It is soluble in ethanol, diethyl ether, n-hexane, fatty oils and is virtually insoluble in water. It is free of any stabilizers.

MIGLYOL® 8810, like MIGLYOL® 812 and MIGLYOL® 840, is a polar ester oil with a similar cloud point of minus 10°C and can easily be emulsified.

Cosmetic Functions:
Owing to its low irritation potential and its excellent spreadability MIGLYOL® 8810 is well-suited for products for sensitive skin areas (mascara, make-up remover, baby skin etc.). MIGLYOL® 8810 has a very low viscosity and therefore spreads easily on the skin.
Thus MIGLYOL® 8810 use is suggested for:

- Sun Care
- Lip care
- Facial crème for day and night
- Facial foundations
- Bath applications

4. Formulation Guide

**Light Moisturizing W/O Lotion - for sensitive skin**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>IMWITOR® 600¹</td>
<td>Polyglyceryl-3 Polyricinoleate</td>
</tr>
<tr>
<td></td>
<td>MIGLYOL® 818¹</td>
<td>Caprylic/Capric/Linoleic Triglyceride</td>
</tr>
<tr>
<td></td>
<td>MIGLYOL® 840¹</td>
<td>Propylene Glycol Dicaprylate/Dicaprate</td>
</tr>
<tr>
<td></td>
<td>MIGLYOL® 8810¹</td>
<td>Butylene Glycol Dicaprylate/Dicaprate</td>
</tr>
<tr>
<td></td>
<td>SOFTIGEN® 701¹</td>
<td>Glyceryl Ricinoleate</td>
</tr>
<tr>
<td></td>
<td>Olive Oil</td>
<td>Olea Europaea</td>
</tr>
<tr>
<td></td>
<td>Bees Wax</td>
<td>Cera Alba</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phase B</th>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CremerGLYC¹</td>
<td>Glycerine</td>
</tr>
<tr>
<td></td>
<td>Magnesium Sulfate 7H₂O</td>
<td>Magnesium Sulfate</td>
</tr>
<tr>
<td></td>
<td>Preservatives</td>
<td>q.s.</td>
</tr>
<tr>
<td></td>
<td>Demin. Aqua</td>
<td>Aqua</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phase C</th>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tocopherol</td>
<td>0,50</td>
</tr>
<tr>
<td></td>
<td>Fragrance</td>
<td>Fragrance</td>
</tr>
</tbody>
</table>

**Procedure:**
1. Heat Phase A and B separately to approx. 75-80 °C.
2. Add Phase A to Phase B with stirring. Homogenize.
3. Cool Phase A/B with gentle stirring to approx. 30 °C.
4. Add Phase C to the emulsion.

**Supplier References:**

¹ Cremer Care
MIGLYOL® 8810

INCI: Butylene Glycol Dicaprylate/Dicaprate

- multitainer with 25 kg
- drum with 190 kg
- container with 930 kg

- Protect from light and moisture
- Shelf life 3 years

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