Product Information

dermofeel® G 10 L

Product features

- Powerful solubilizer
- PEG-free
- 100% plant material
- From sustainable resources
- Skin friendly
- ECOCERT listed
**dermofeel® G 10 L**

The product line **dermofeel®** products comprise a carefully chosen line of emulsifiers, functional oils and antioxidants for cosmetic and dermatological applications. The well balanced product profiles are tailored to meet as many requirements of modern cosmetic concepts as possible. Functionality and technical performance are the main focus for the development of the **dermofeel®** product line. Wherever possible we choose raw materials from sustainable sources in order to comply with this important trend for an increasing number of consumer products.

**dermofeel® G 10 L**

The product consists of a polyglyceryl ester formed by an average of 10 glycerol units and lauric acid. The origin of both components lies in renewable plant sources. The manufacturing process uses environmentally friendly condensation reactions and does not involve any kind of alkoxylated species. Therefore **dermofeel® G 10 L** is PEG and PPG free and consists of a favourable distribution of different chain lengths in the polyglyceryl part. The comparison of various polyglyceryl laurates with the corresponding polyoxyethylene ethers of lauryl alcohol revealed a better performance of the polyglyceryl esters in reduction of surface tension, foam formation/-stability and detergency.

**Application**

Ecocert listed **dermofeel® G 10 L** can be employed in various cosmetic products. It is a powerful solubilizer and can be used as an effective emulsifier in sprayable O/W-emulsions with low viscosity. It is applied as state of the art co-emulsifier in baby care, face cleansing, roll-on-emulsions and sprayable emulsions. As a solubilizer it is often employed in alcohol containing and alcohol free product concepts. Due to its hydrophilic structure it has a good water binding capacity and leaves a pleasant skin feel. The excellent skin and eye compatibility grants applicability in virtually all cosmetic products.

**dermofeel® G 10 L**

- is a solubilizer from naturally occurring materials
- is skin and eye friendly
- is PEG and PPG free

<table>
<thead>
<tr>
<th>Characteristics of <strong>dermofeel® G 10 L</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>INCI</strong></td>
</tr>
<tr>
<td><strong>Recommended dosage (ratio)</strong></td>
</tr>
<tr>
<td><strong>HLB-value</strong></td>
</tr>
<tr>
<td><strong>Regulatory status</strong></td>
</tr>
<tr>
<td><strong>Natural Cosmetics Approval</strong></td>
</tr>
</tbody>
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**dermofeel® G 10 L**

**Natural Clear Skin Tonic**

**L010-03B-107**

**Claims:**
- PEG-free transparent fluid
- Synergistic effect against skin impurities with Seboclear
- Dermosoft GMCY is effective against *Propionibact. Acnes*

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>Supplier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Deionised Water</td>
<td>Aqua</td>
<td></td>
<td>67.65</td>
</tr>
<tr>
<td></td>
<td>dermofeel® PA-3</td>
<td>Sodium Phytate, Aqua</td>
<td>Dr. Straetmans</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td>Glycerol (anhydrous)</td>
<td>Glycerin</td>
<td>Merck</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>Ajidew NL-50</td>
<td>Sodium PCA</td>
<td>Ajinomoto</td>
<td>2.00</td>
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<tr>
<td>B</td>
<td>Ethanol (86%)</td>
<td>Alcohol Denat.</td>
<td>Merck</td>
<td>20.00</td>
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<tr>
<td></td>
<td>dermosoft® GMCY</td>
<td>Glycerl Caprylate</td>
<td>Dr. Straetmans</td>
<td>1.00</td>
</tr>
<tr>
<td>B1</td>
<td>dermofeel® G10L</td>
<td>Polyglyceryl-10 Laurate</td>
<td>Dr. Straetmans</td>
<td>2.00</td>
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<tr>
<td></td>
<td>alpha Bisabolol, nat.</td>
<td>Bisabolol</td>
<td>GfN</td>
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</tr>
<tr>
<td></td>
<td>Perf. Lemon Verbena Natura 0606-093</td>
<td>Parfum, Citral, Geraniol, Linalool, Citronellol, Limonen</td>
<td>Dülberg Konzentra</td>
<td>0.20</td>
</tr>
<tr>
<td>C</td>
<td>Seboclear</td>
<td>Alcohol, Aqua, Plantago Lanceolata Extract, Berberis Aquilfolium Extract, Sodium Salicylate</td>
<td>Rahn</td>
<td>2.00</td>
</tr>
</tbody>
</table>

| | | | | 100.00 |

**Manufacturing Procedure:**
1. Premix phases A.
2. Dissolve Perfume and Bisabolol in Dermofeel G10 L and add the rest of phase B until all ingredients are dissolved clearly.
3. Add phase A slowly to phase B under stirring.
4. Add part C.

**Specification Values:**
- Appearance: clear, light yellow liquid.
- pH: approx. 5.5

**Stability:**
- 3 months stable at 20°C, 40°Cand 4°C.
dermofeel® G 10 L

Many formulations with our products are available for both, traditional and natural cosmetics concepts. Please contact us to receive your copy of our new Formulary Edition or Formulary NATURE Edition, respectively.

Toxicology
dermofeel® G10 L is not irritating, not sensitizing and does not contain genetically modified material, dioxine, phthalates, BSE-related material or CMR-material. Polyglyceryl esters are common ingredients in the food industry and have practically no toxic effects even when administered orally at high concentrations.

Packing units
dermofeel® G10 L is available in 16 kg pails and 180 kg drums.

Environmental Information
dermofeel® G10 L is produced in an environmentally and toxicologically unobjectionable process by condensation of plant derived glycerol and lauric acid. dermofeel® G10 L has not been tested on animals.

Handling and storage
In closed original containers dermofeel® G10 L can be stored for at least 3 years. dermofeel® G10 L does not need to be preserved.

Literature
2 Ishitobi M, Kunieda H, Effect of chain length distribution on the phase behaviour of polyglycerol fatty acid ester in water, Colloid Polym Sci, 2000;278:899-904
3 Kato T et al., Surfactant properties of purified polyglycerol monolaurates, Journal of Surfactants and Detergents, 2006; 6 (4): 331-337

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