Multifunctional Additives

Product Information

dermosoft® OMP

Product features:

- Multifunctional cosmetic ingredient
- Moisturizing and refatting
- Strong antimicrobial activity
- High spreadability – ideal for wet wipes
- Suitable for transparent products
Multifunctional Additives

dermosoft® OMP

The product line: dermosoft® products are carefully chosen multifunctional cosmetic ingredients. The well balanced product profiles are tailored to the needs of cosmetic formulations. Basic cosmetic functions like hydrating, conditioning, masking and others are combined with an excellent antimicrobial profile. dermosoft® products will meet many of your requirements for the improvement of cosmetic formulations and along the way protect the product against microorganisms. With the aid of dermosoft® cosmetic products can easily be formulated without traditional preservatives.

dermosoft® OMP

The product consists of a blend of ingredients. Methylpropanediol is a very polar ingredient, that retains moisture in the skin, but also keeps the other two ingredients in the aqueous phase. Caprylyl glycol has been a standard ingredient since 15 years with its refatting properties and an excellent profile of antimicrobial activity. Phenylpropanol is the second active ingredient of the blend. With its delicate scent it covers undesired raw material odours, though not being perceived in the end product, and it boosts the fungicidal activity of the blend. Thus, the strong antimicrobial activity of dermosoft® OMP can convert most cosmetic formulations in self preserving products – with no further need for traditional preservatives.

Application

dermosoft® OMP has a high efficacy against microorganisms in a broader range of pH compared to many other compounds. The liquid raw material is simply mixed with the aqueous phase before the emulsification step. It can be used in cold process as well as at higher temperature (80 °C). With a recommended use concentration of 2,5 % to 4,0 % dermosoft® OMP will help to increase the moisture level in the skin and effectively protect the cosmetic product against microbiological spoilage. In some cases dermosoft® OMP can have an impact on emulsion stability. Please check stability issues carefully. dermosoft® OMP is particularly suited for application in wet wipes.

dermosoft® OMP

- Is a multifunctional wetting and refatting agent
- Has strong antimicrobial activity
- Has high spreadability
- For wet wipes and other product concepts
- Ideal for transparent products

<table>
<thead>
<tr>
<th>Characteristics of dermosoft® OMP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>INCI</strong></td>
</tr>
<tr>
<td><strong>Recommended dosage</strong></td>
</tr>
<tr>
<td><strong>pH-range</strong></td>
</tr>
<tr>
<td><strong>Regulatory status 15/2003/EC</strong></td>
</tr>
</tbody>
</table>
Cosmetic functions

Hydrating:
The hydrating effect of glycerol is well known and has been proven in many clinical studies. The polar structures in methylpropanediol and caprylyl glycol contained in dermosoft® OMP mimic the structure of glycerol and will contribute to the hydrating properties of the cosmetic product at recommended use concentrations.

Refatting:
Due to the amphiphilic structure of caprylyl glycol dermosoft® OMP can also deliver and retain oil components in the upper layer of the skin. The compound works as a link between hydrophilic and lipophilic structures in the skin, thus improving the delivery of oil components to the skin.

Antimicrobial efficacy:
Although dermosoft® OMP may be employed for its additional valuable cosmetic functions, the excellent antimicrobial activity is appreciated by many manufacturers for improving the microbiological stability. In most cases it will allow to eliminate unnecessary preservatives from the product completely. As can be seen in the challenge tests shown below all relevant germs are destroyed quickly and effectively. The pH range for its use is unlimited.

Please have a look and convince yourself in the following figures how the dermosoft® OMP concept enables you to formulate microbiologically sound products without traditional preservatives. All the microbiological tests are done in an independent external and certified laboratory according to the Pharmacopoeia Europea. The following examples show test results of challenge tests with state of the art products that contain dermosoft® OMP.

Figure 1: Challenge Test with Clear Hydro Gel stabilized with 2,5 % Dermosoft® OMP.
Many cosmetic formulations can be stabilised with dermosoft® OMP.

Figure 2: Challenge Test with Deodorant stabilized with 3,0 % Dermosoft® OMP and 1,0 % Dermosoft® GM CY.

Figure 3: Challenge Test with Body Lotion stabilized with 3,0 % Dermosoft® OMP.
Multifunctional Additives

Plumping Face Tonic
LU03-12-0-210

Claims:
PEG-free
With cellular energizer & Skin remodelling effect
Alcohol free for sensitive skin

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>Supplier</th>
<th>%</th>
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<tbody>
<tr>
<td>A</td>
<td>Deionised Water</td>
<td>Aqua</td>
<td>Merck</td>
<td>84.05</td>
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<tr>
<td></td>
<td>Glycerol (88%)</td>
<td>Glycerin</td>
<td>Merck</td>
<td>5.00</td>
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<td></td>
<td>dermofool PA-3</td>
<td>Sodium Phytate, Aqua</td>
<td>Dr. Straetmans</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td>Allantoin</td>
<td>Allantoin</td>
<td>Merck</td>
<td>0.10</td>
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<tr>
<td></td>
<td>Ajidew NL 50</td>
<td>Sodium PCA</td>
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<td></td>
<td>Uniset Green K7015-J (sol 0.1%)</td>
<td>CI61570</td>
<td>Goldmann</td>
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<tr>
<td>B</td>
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<tr>
<td></td>
<td>symbio solv XC</td>
<td>Caprylyl/Capryl Wheat Bran/Straw Glycosides; Aqua; Fusel Wheat Bran/Straw Glycosides; Polyglyceryl-5 Olester; Sodium Cocoyl Glutamate; Glycerol Caprylate</td>
<td>Dr. Straetmans</td>
<td>2.00</td>
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<td>Perf. Sugar ray 446652</td>
<td>Parfum</td>
<td>Symrise</td>
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<td>C</td>
<td>Sculptessence</td>
<td>Water, Glycerin, Linum usitatissimum (linseed) seed extract</td>
<td>Lucas Meyer*</td>
<td>3.00</td>
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<tr>
<td></td>
<td>Riboxyl</td>
<td>Ribose</td>
<td>Lucas Meyer*</td>
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<tr>
<td>D</td>
<td>Citric Acid (sol 20%)</td>
<td>Citric Acid</td>
<td>Merck</td>
<td>q. s.</td>
</tr>
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</table>

100.00

Manufacturing Procedure:
1. Pre-mix phase A and B separately.
2. Add phase A to phase B while stirring.
3. Add components of phase C and adjust pH value if necessary.

Specification Values:
Appearance: clear, light green solution.
pH: 5.5 – 6.0.

Stability: More than 3 months stable at 20°C, 40°C and 4°C.

Microbiological Stability: Proven

* distributed in Germany by Dr. Straetmans GmbH

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# Multifunctional Additives

## Well Fit Foot Cream

### Claims:
- Moisturizing and rich cream for feet with rough and chapped skin prevention athlete's foot and unpleasant odor
- dermosoft™ decalact & dermofeel™ TEC eco as proven actives

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>Supplier</th>
<th>%</th>
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<td>dermofeel™ PA-3</td>
<td>Sodium Phytate, Aqua</td>
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<td></td>
<td>dermostart™ OMP</td>
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<tr>
<td>A1</td>
<td>Keltrol CG-SFT</td>
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<td>LaraCare A 200</td>
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<td>B</td>
<td>dermofeel™ GSC</td>
<td>Glyceryl Stearate Citrate</td>
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<td>Stearic Acid</td>
<td>Dr. Straetmans</td>
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<td>Glycerol Stearate</td>
<td>Gustav Hoess</td>
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<td></td>
<td>Cutina GMS V</td>
<td>Butyleneglycol Dicaprylyl/ Dicaprate</td>
<td>Cognis</td>
<td>2.00</td>
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<tr>
<td></td>
<td>dermofeel™ BGC</td>
<td>Theobroma Grandiflorum Seed Butter, Tocopherol</td>
<td>Beraca*</td>
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<td></td>
<td>Cupuacu Butter Refined</td>
<td>Cremo (Vegetable) Oil</td>
<td>Cremo Care</td>
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<tr>
<td></td>
<td>Emprove Harnstoff perform</td>
<td>Tricaprin</td>
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<td></td>
<td>dermofeel™ MCT</td>
<td>Triethyl Citrate</td>
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<td>3.00</td>
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<td>B1</td>
<td>Prescolat ML crysL</td>
<td>Menthyl Lactate</td>
<td>Synthite</td>
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<td>Aqua</td>
<td>Merck</td>
<td>5.00</td>
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<tr>
<td></td>
<td>Emprove Harnstoff perform</td>
<td>Urea</td>
<td>Merck</td>
<td>2.00</td>
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<tr>
<td>D</td>
<td>Perf. Grapefruit</td>
<td>Parfum</td>
<td>Cosnaderm</td>
<td>0.35</td>
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</table>

### Manufacturing Procedure:
1. Heat phase A and B up to 78°C. Disperse A1 in A and dissolve B1 in phase prior emulsification.
2. Emulsify phase A into phase B. Homogenize for approx. 2 min. using an Ultra-Turrax.
3. Cool down to 35°C under stirring and acid pre-solution of phase C and perfume oil.

### Specification Values:
- Appearance: white cream;
- pH: 5.0 – 5.0;
- Viscosity (Brookfield: Hellaphat TF; Speed 10): Approx. 20,000 – 40,000 mPas;
- Centrifugation (4,000 rpm, 15 min.): No separation.

### Stability:
- More than 3 months stable at 20°C, 40°C and 4°C.
- Microbiological Stability: Proven.

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# Multifunctional Additives

## Easy Sensual Cream

**L014-40.5-1110**

**Claims:**
- UV Protection: SPF 6
- Immune & moisture protection with long-term effect

### Phase A

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<tr>
<th>Ingredient</th>
<th>INCI</th>
<th>Supplier</th>
<th>%</th>
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<tr>
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<tr>
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<td>Glycerin</td>
<td>Merck</td>
<td>5.00</td>
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<tr>
<td><em>dermofeel</em> PA-3</td>
<td>Sodium Phytate, AstraZeneca</td>
<td>Dr.Straetmans</td>
<td>0.10</td>
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<td>Dragoncolor LBMFST</td>
<td>CI 655601</td>
<td>Symrise</td>
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<td>RonaCare Ectoin</td>
<td>Ectoin</td>
<td>Merck</td>
<td>0.30</td>
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<td><em>dermofeel</em> OMP</td>
<td>Methylpropanediol; Cetyl Alcohol; Phenoxyethanol</td>
<td>Dr. Straetmans</td>
<td>3.00</td>
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</table>

**A1**

| Biophilic H | Hydrogenated Lecithin, C12-16 Alcohols, Palmitic Acid | Lucas Meyer | 4.00 |

### Phase B

<table>
<thead>
<tr>
<th>Ingredient</th>
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<tbody>
<tr>
<td>Cupuacu Butter Refined</td>
<td>Theobroma Grandiflorum Seed Butter, Tocopherol</td>
<td>Beraca*</td>
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<tr>
<td>Brazil Nut Oil Refined</td>
<td>Bertholletia Excelsa Nut Oil, Tocopherol</td>
<td>Beraca*</td>
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<tr>
<td><em>dermofeel</em> TC-7</td>
<td>Triheptanoin</td>
<td>Dr. Straetmans</td>
<td>6.00</td>
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<td><em>dermofeel</em> BGC</td>
<td>Butylen Glycol, Dicaprylate/Dicaprate</td>
<td>Dr. Straetmans</td>
<td>7.00</td>
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<tr>
<td>Lanette 15</td>
<td>Cetyl Alcohol, Glycerin</td>
<td>Cognis</td>
<td>1.00</td>
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<tr>
<td><em>dermofeel</em> Ascorbyl Palmitate</td>
<td>Ascorbyl Palmitate</td>
<td>Dr. Straetmans</td>
<td>0.10</td>
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</table>

**B1**

| Heligio | See TDS | Lucas Meyer* | 1.00 |

### Phase C

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<th>Supplier</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>Suprem Cotton</td>
<td>See TDS</td>
<td>Lucas Meyer*</td>
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</tr>
<tr>
<td>Isocell Life</td>
<td>See TDS</td>
<td>Lucas Meyer*</td>
<td>4.00</td>
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<td>Perf. Unimagnet KVO 612613</td>
<td>Parfum</td>
<td>Kurt Kitzing</td>
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### Phase D

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<th>Supplier</th>
<th>%</th>
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<tbody>
<tr>
<td>Citric Acid (sol 20%)</td>
<td>Citric Acid</td>
<td>Merck</td>
<td>q.s.</td>
</tr>
</tbody>
</table>

### Manufacturing Procedure:

1. Heat phase A up to 78°C. Add Biophilic H and keep at 75-78°C under medium stirring for 20 minutes to hydrate phospholipids. Heat phase B up to 78°C. Disperse B1 in B, then add phase B into phase A.
2. Homogenize for approx. 2 min. using an Ultra-Turrax.
3. Cool down under stirring. Add components of phase C below 35°C. Adjust pH with D if necessary.

### Specification Values:

- **Appearance:** White cream; pH 5.0 – 6.0.
- **Viscosity (Brookfield: Heliopath TF; Speed 10):** Approx. 30,000 – 40,000 mPa.s.
- **Centrifugation (4,000 rpm, 15 min.):** No separation.

### Stability:

- More than 3 months stable at 20°C, 40°C and 4°C.

### Microbiological Stability:

Proven.

### Disclaimer:

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Dr. Straetmans Chemische Produkte GmbH, Merkunring 60-62, D-22143 Hamburg, Germany
T +49 (0)40-66 93 58-0, F +49 (0)40-66 93 58-310, info@dr-straeetmans.de
Soothing Eye Gel

Claims:
- Smooth and soft skin feel with plumping effect
- Anti-irritant action to protect sensitive skin of eye region

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>Supplier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Deionised Water</td>
<td>Aqua</td>
<td></td>
<td>80.30</td>
</tr>
<tr>
<td></td>
<td>Glycerol (85%)</td>
<td>Glycerin</td>
<td></td>
<td>2.00</td>
</tr>
<tr>
<td>A1</td>
<td>Cosmedia SP</td>
<td>Sodium Polyacrylate</td>
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<td>1.40</td>
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<tr>
<td>B</td>
<td>dermosoft® OMP</td>
<td>Methylpropanediol; Caprylyl Glycol; Phenylpropanol</td>
<td>Dr. Straetmans</td>
<td>1.30</td>
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<td></td>
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<td>3.00</td>
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<td>dermofeel® BGC</td>
<td>Butylene Glycol; Dicaprylyl/Dicaprate</td>
<td>Dr. Straetmans</td>
<td>2.00</td>
</tr>
<tr>
<td>C</td>
<td>Presolution of dermosoft® 688 (sol 10%)</td>
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<td>4.00</td>
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<tr>
<td></td>
<td>Sculptessence</td>
<td>Aqua, Glycerin, Linum Usitatissimum (Linsaeed) Extract</td>
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<td>3.00</td>
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<td>Aqua, Glycerin, Lysolecithin</td>
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<td>E</td>
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100.00

Manufacturing Procedure:
1. Heat phase A up to 40 – 50°C. Disperse A1 under rapid stirring until completely dissolved.
2. Premix phase B at 30 – 40°C and add to phase A. Stir until homogenous.
3. Add pre-solution of phase C and components of phase D and stir until homogenous product obtains.
4. Adjust pH value and cool down to room-temperature.

Specification Values:
- Appearance: white gel
- pH: 6.0 – 6.5
- Viscosity (Brookfield: Helipath TF, Speed 10): Approx. 10.000 mPa.s.
- Stability: More than 3 months stable at 20°C, 40°C and 4°C.
- Microbiological Stability: Proven.

Presolution of dermosoft® 688 (10%)

<table>
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<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>Supplier</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Deionised Water</td>
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<tr>
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<td>Glycerol anhydrous</td>
<td>Glycerin</td>
<td></td>
<td>30.00</td>
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<tr>
<td></td>
<td>dermosoft® 688</td>
<td>p-Anisic Acid</td>
<td>Dr. Straetmans</td>
<td>10.00</td>
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<tr>
<td></td>
<td>Sodium Hydroxide (&gt;99%)</td>
<td>Sodium Hydroxide</td>
<td>Merck</td>
<td>3.50</td>
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</table>

100.00

Manufacturing Procedure:
1. Dissolve Sodium Hydroxide in Water. Add dermosoft® 688 and Glycerol
2. Stir until completely dissolved

Specification Values:
- Appearance: Light yellow solution. pH: 10.0 – 12.0

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Multifunctional Additives

Mascara Classic Black

Claims: Nutritive and film forming mascara
dermofeel® sensolv for even pigment distribution

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>Supplier</th>
<th>%</th>
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</thead>
<tbody>
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<tr>
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<td>BASF</td>
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<td>Canellilla wax, refined</td>
<td>Euphorbia Cerifera (Canellilla) Wax</td>
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<td>Beeswax 8104</td>
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<td>Kahl GmbH &amp; Co. KG</td>
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<td>dermofeel® sensolv</td>
<td>Isomamyl Laurate</td>
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<td>Murumuru Butter refined</td>
<td>Astrocaryum Murumuru Seed Butter</td>
<td>Beraca</td>
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<td>dermofeel® Toco 70</td>
<td>Tocopherol, Helianthus Annuus (Sunflower) Seed Oil</td>
<td>Dr. Straetmans</td>
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<td>C</td>
<td>Amylomer™ EMU</td>
<td>Polycatenium-75</td>
<td>Dr. Straetmans</td>
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<td>dermofeet® OMP</td>
<td>Methylpropanediol, Caprylic Glycol, Phenylpropanol</td>
<td>Dr. Straetmans</td>
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</tbody>
</table>

Manufacturing Procedure:
1. Heat phase A up to 85°C. Disperse A1 in A stepwise and stir for 10 min. Add A2 and stir for 10 min.
2. Heat phase B up to 85°C. Emulsify phase A into phase B.
3. Homogenize for approx. 2 min, using an Ultra-Turrax.
4. Cool down to 40°C under stirring and add components of phase C.
5. Cool down to room-temperature and pour into container.

Specification Values:
Appearance: viscous black paste;
pH: 6.0 – 6.5
Viscosity (Brookfield: Helipath TF; Speed 10): Approx. 30,000 – 40,000 mPa.s.

Stability: More than 3 months stable at 20°C, 40°C and 4°C.

Microbiological Stability: Proven.

Disclaimer:
The information contained herein is meant to demonstrate how our products can be used. The given data are suggestions without any guarantee aimed to support customers’ development. As production conditions at our customers’ facilities are beyond our control, we refuse to accept any liability involved in the use of our products. Please observe possible third party patent rights.
Multifunctional Additives

dermosoft® OMP

Styling Gel
Lu03-6.3.216

Claims:  
PEG-free  
Wet-Look Effects  
Control & Structure

<table>
<thead>
<tr>
<th>Phase</th>
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<th>Supplier</th>
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<tr>
<td>A</td>
<td>Deionised Water</td>
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<td>Carbopol ETD 2020</td>
<td>Acrylates/C10-30 Alkyl Acrylate Crosspolymer</td>
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<td>B</td>
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<td>symbio®solv XC</td>
<td>Caprylyl/Capryl Wheat Bran/Straw Glycosides; Aqua; Fusel Wheat Bran/Straw Glycosides; Polyglyceryl-5 Oleate; Sodium Cocoyl Glutamate; Glycerol Caprylate</td>
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<td>Citric Acid (sol 20%)</td>
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</table>

Manufacturing Procedure:
1. Disperse Carbopol in water of phase A.
2. Pre-mix phase B and add to phase A.
3. Adjust pH to 5.0-5.5.

Specification Values:
Appearance: clear gel.  
pH: 5.0-5.5.

Stability: More than 3 months stable at 20°C, 40°C and 4°C.

Microbiological Stability: Proven

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Multifunctional Additives

dermsoft® OMP

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

Toxicology
dermsoft® OMP is not irritating, not sensitizing and does not contain genetically modified material, dioxine, phthalates, BSE-related material or CMR-material.

Packing units
dermsoft® OMP is available in 18 kg cans.

Environmental Information
dermsoft® OMP is produced in an environmentally and toxicologically unobjectionable process by mixture of the active materials.

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

Literature
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