A NATURAL FORMULATOR’S GUIDE
The essentials of natural formulations – Trend edition 2019
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INTRODUCTION – what this booklet is about

Driven by different trends in lifestyle, the demand for natural cosmetic products has seen steady growth. It is no longer a niche, but an important segment in the personal care market. Consequently, almost every formulator has to deal with the selection of natural ingredients and the technology around natural cosmetics.

The formulation of natural personal care products can be challenging sometimes. Especially when it comes to the implementation of certain trend topics. This is why we would like to show you approaches to the creation of exciting textures, fascinating new sensory profiles and playful forms of application in the chapter EXCITEMENT.

Another option for establishing and differentiating new cosmetics products in the natural market is presented in the chapter AWARENESS. Let yourself be inspired how to consider and realize the conscious use of raw materials with our modern formulation concepts.

Knowing the distinction between different natural certification standards and the related challenges is an important foundation for creating natural product concepts. Therefore, we would like to highlight some tips and tricks around the formulation of natural cosmetics considering different standards.

We focused on three different approaches to natural personal care and created our prototype formulations accordingly. The two major natural cosmetics certifications are COSMOS and NATRUE. With the release of the ISO Norm 16128, another means of orientation for the declaration of the natural content of a cosmetic formulation became available.

WITHIN THIS BOOKLET, YOU WILL FIND ONE OF THE FOLLOWING INDICATIONS WITH EACH RECIPE.

Developed according to qualitative and quantitative requirements of COSMOS Natural

Developed according to qualitative and quantitative requirements of NaTrue Natural Cosmetics

Natural Origin Content > 0.95 calculated according to ISO 16128
The COSMOS-standard is in force since January 2010. The overall goal is to define and implement a standard for organic and natural cosmetics. The guiding principles are promoting organic agriculture, saving resources, using clean and gentle processes and developing the concept of “Green Chemistry”. The COSMOS standard is available either for organic products or for natural products. The prototype formulations within this booklet are developed according to COSMOS Natural.

The selection of ingredients is an important element in the formulation of a cosmetic formulation according to the COSMOS-standard. There are guidelines on the origin and approved processing procedures of the ingredients. Raw materials with an organic content need to be certified, involving audit processes, while materials with no organic content have to be approved involving a desk-based screening of information.

Besides the choice of ingredients, it is also of importance that the composition of the total product is considered. Under COSMOS Natural, the amount of petrochemical moieties is limited to a maximum of 2% while the remaining ingredients need to be of natural origin. There is no specification on the organic compounds, which is covered with the COSMOS Organic standard.

For the development of the prototype formulations in this booklet, we selected ingredients that have COSMOS approval based on the information available to us at the time of the formulation process.

For detailed information, please refer to https://cosmos-standard.org/

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The NaTrue Standard is developed by the NaTrue Scientific Committee Criteria and Label, an international non-profit organization with the goal to protect and promote natural and organic cosmetics globally. It differentiates its certification into three different categories: "natural cosmetics", "natural cosmetics with an organic portion" and "organic cosmetics".

For the selection of ingredients, the NaTrue Standard differentiates between natural substances, nature-identical substances and derived natural substances, with a list of approved treatment processes. Furthermore, there are positive lists available for nature-identical substances, comprising pigments, minerals and preservatives.

The requirements for the composition of a cosmetic formulation are focusing on minimum amounts of authentic natural substances and a maximum allowed amount of derived natural raw materials within the whole formulation. There are different requirement for various types of cosmetic products, e.g. water-free products or emulsions.

For the development of the prototype formulations within this booklet, we selected ingredients and composed the formulations according to the NaTrue “Natural Cosmetics” (Level 1) based on the information available to us at the time of the formulation process. Please note that the ingredients are to our knowledge suitable for the NaTrue requirements, but not necessarily certified by NaTrue.

For detailed information, please refer to http://www.nattrue.org/

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With the ISO 16128, an industrial norm on "Guidelines on technical definitions and criteria for natural and organic cosmetic ingredients and products" became available. The ISO norm consists of two parts. Part 1 provides definitions for different ingredient categories. Part 2 describes the procedure on how to calculate the naturality of ingredients and the natural origin content of a cosmetic formulation, based on the amount of natural components in each raw material.

For all prototype formulations in this booklet, the Natural Content $c_n$ and the Natural Origin Content $c_{no}$ is calculated and indicated together with the formulations.

In order to demonstrate the implications of the ISO 16128 norm for cosmetic products, we also developed prototype formulations with a calculated $c_{no}$ of a minimum of 0.95 or even higher. These formulations are marked with the following expression: Natural Origin Content $> 0.95$ calculated according to ISO 16128. In case a formulation meets a minimum $c_{no}$ of 0.98, we name it natural.

The ISO standard 16128 is protected by copyright. For information on how to access the full content, please refer to https://www.iso.org/

*Any reference of personal care products to the natural cosmetics certification standards can only be made in conjunction with an individual product certification by an authorized certification body. These prototype formulations only serve demonstration purposes.*
EXCITEMENT: inspire with visible and tangible effects

Nature alone is not enough today. Formulations should meet the criteria of certain natural certifications and at the same time be modern and in line with actual trends. Consumers are not just looking for effective products, they want to enjoy using them. Excitement – this means for us, natural formulations with a special and playful application and interesting new sensory profile fitting with the latest trends.

WE WOULD LIKE TO SHOW YOU NATURAL FORMULATIONS FOR THREE DIFFERENT TOPICS, WHICH ALL HAVE IN COMMON TO EXCITE CONSUMERS’ CURIOUSITY.

MIX & ACTIVATE – IT IS YOUR CHOICE.
Consumers want less and less off-the-peg cosmetics. The desire for individual products that perfectly fit their own needs is growing. Customization is not a niche topic any more. Our natural formulations in this category can be used on their own or be expanded to an individual product by mixing and activating additional benefits.

TEXTURE TRANSFORMATION – SURPRISE ME.
Playing with textures is an ongoing trend for cosmetic products. Cosmetics that can change their texture and character create a pleasant surprise for their user. Discover our two formulations, which unfold a new and exciting texture during application.

TO GO – BEAUTY TO ACCOMPANY.
In this fast turning world, almost everyone is always on the go. Straight from the office to the gym and then to dinner. Therefore, products in stick application are practical to use anywhere. No leaks or spills, no refilling in travel size - our two natural stick formulations are the perfect companions for every trip.
THE TREND: MIX & ACTIVATE

Masks have long been a trend topic but they are no longer just for the facial skin. Our 2-in-1 body formulation can be activated for different applications:

1. With the high percentage of actives and caring vegetable oils, this rich green body mask lets the skin shine. It is a pleasant experience to apply this mask on the body and feel the smoothness on the skin.

2. By adding sugar, salt or maybe coffee particles to this mask, an individual body peeling can be created according to the skin’s needs.

More inspiration:
Add absorbing ingredients, e.g. natural cellulose, to obtain a mattifying mask.
And for a whole spa experience, e.g. at home, these two steps can be combined together.

APPLICATION & SENSORY

• Rich cream mask for use all over the body
• Rinse off after a short leave-on time
• Add peeling particles to have a body scrub
• High viscous O/W-emulsion
• Rich and caring with smooth texture
• Leaves a protective and caring film

CHALLENGES

• Based only on ingredients of natural origin with high amount of natural oils and waxes
• High content of active ingredients used in combination for a youthful appearance of the skin
• Combination of chelating agent and antioxidants for protection of the high content of natural oils

* See page 6 and 7

DIY

MIX & ACTIVATE: ADD PEELING PARTICLES AS YOU LIKE FOR A SCRUB

PROPERTIES: Rich cream-formulation with a combination of actives for the skin

DIY concept: Add peeling particles as you like and create a scrub

NATURAL GREEN BODY MASK L098-8.5-1218

Claims: Rich cream-formulation with a combination of actives for the skin
DIY concept: Add peeling particles as you like and create a scrub

Natural content c<n: 77.4%, Natural origin content c<n: 100% (incl. water, ISO 16128)

Phase | Ingredient | INCI (EU) | Supplier | %
---|---|---|---|---
A | Deionised Water | Aqua | | 57.40
| Glycerin 99.5% | Glycerin | Cremer Oleo | 4.50
| dermofeel® PA-3 | Sodium Phytate; Aqua; Alcohol | Evonik | 0.10
A1 | Xanthan FF | Xanthan Gum | Jungbunzlauer | 0.60
B | Phytosqualan, refined, Olive based | Squalane | Henry Lamotte | 5.00
| Phytosphingosine | Phytosphingosine | Evonik | 0.20
B1 | symbio‘mulu GC MB | Glyceryl Stearate Citrate; Cetearyl Alcohol; Glyceryl Caprylate | Evonik | 8.00
| TEGIN® M Pellets MB | Glyceryl Stearate | Evonik | 2.00
| Kahlwax 8104 | Cera Alba | KahlWax | 2.00
| Kahlwax 6614 | Camellia Sinensis Leaf Extract | KahlWax | 2.00
| Shea Butter, refined | Butyrospermum Parkii Butter | Henry Lamotte | 2.00
| Almond Oil, refined | Prunus Amygdalus Dulcis Oil | Henry Lamotte | 5.00
| Avocado Oil, refined | Persea Gratissima Oil | Henry Lamotte | 3.00
| Apricot Kernel Oil, refined | Prunus Armeniaca Kernel Oil | Henry Lamotte | 2.00
| dermofeel® Toco 70 non GMO | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 0.20
| dermofeel® TocoSkin | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 1.00
C | TEGO® Turmerone | Curcuma Longa Root Extract | Evonik | 0.50
| Pumpkin seed (Kürbiskern) organic extractive P-00025487 | Helianthus Annuus Hybrid Oil; Cucurbita Pepo Seed Extract; Rosmarinus Officinalis Leaf Extract | Botanica | 0.50
| TEGO® Stemlastin | Cyanidium Caldarium Extract | Evonik | 0.50
| dermosoft® 1388 eco | Glycerin, Aqua; Sodium Levulinate; Sodium Anisate | Evonik | 3.50

100.00

Processing:
1. Mix phase A and heat up to 78°C. Disperse phase A1.
2. Mix phase B and heat up to 90°C until a clear solution is obtained.
3. Add components of phase B1 to B and heat up to 78°C.
5. Homogenize.
6. Start to cool down under medium stirring.
7. Add phase C below 40°C.
8. Adjust pH-value to 5.0-5.5 if necessary.

Specification:
Appearance: Light green cream
pH-value: 5.0 - 5.5
Viscosity Brookfield (21°C): TD94; 5rpm / helip.: 150000 - 200000 mPas
Stability test: passed
Microbiological safety: challenge test passed

DEVELOPED ACCORDING TO QUALITATIVE AND QUANTITATIVE REQUIREMENTS OF COSMOS NATURAL*
**NATURAL MOISTURIZING ESSENTIAL CREAM**

**L098-7A.11-1218**

**Claims:**
Classical base cream for caring routine
Combination of dermofeel® TocoSkin as skin active and dermofeel® Toco 70 non GMO for product protection
Natural content $c_v$: 82.4%, Natural origin content $c_r$: 100% (incl. water, ISO 16128)

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI (EU)</th>
<th>Supplier</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>Deionised Water</td>
<td>Aqua</td>
<td>70.20</td>
</tr>
<tr>
<td></td>
<td>Glycerin 98.5%, Ph. Eur.</td>
<td>Glycerin</td>
<td>2.00</td>
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<tr>
<td></td>
<td>dermofeel® PA-12</td>
<td>Sodium Phytate</td>
<td>0.10</td>
</tr>
<tr>
<td>A1</td>
<td>Keltrol CG-SFT</td>
<td>Xanthan Gum</td>
<td>0.40</td>
</tr>
<tr>
<td>B</td>
<td>dermofeel® NC MB</td>
<td>Polyglyceryl-3 Distearate; Glyceryl Stearate Citrate</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td>TEGO® Alkanol 1618 MB</td>
<td>Cetearyl Alcohol</td>
<td>2.00</td>
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<tr>
<td></td>
<td>TEGIN® M Pellets MB</td>
<td>Glyceril Stearate</td>
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<tr>
<td></td>
<td>Jojoba Oil, refined</td>
<td>Simmondsia Chinensis Seed Oil</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>Almond Oil, refined</td>
<td>Prunus Amygdalus Dulcis Oil</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>TEGOSOF'T OER MB</td>
<td>Oleyl Erucate</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>dermofeel® TocoSkin</td>
<td>Tocopherol; Helianthus Annuus Seed Oil</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>dermofeel® Toco 70 non GMO</td>
<td>Tocopherol; Helianthus Annuus Seed Oil</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td>dermosoft® GMCY MB</td>
<td>Glyceril Caprylate</td>
<td>0.30</td>
</tr>
<tr>
<td>C</td>
<td>dermosoft® 1388 eco</td>
<td>Glycerin; Aqua; Sodium Levulinate; Sodium Anisate</td>
<td>3.50</td>
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<tr>
<td></td>
<td>Perfume</td>
<td>Parfum</td>
<td>diverse</td>
</tr>
<tr>
<td></td>
<td>Microbiological safety: challenge tests passed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100.00</td>
<td></td>
<td></td>
</tr>
</tbody>
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**Processing:**
1. Premix phase A and B separately and heat up to 78°C.
2. Add phase A to B under stirring and wait until everything is soluted.
3. Add phase A to B under stirring.
4. Homogenize.
5. Cool down fast under medium stirring.
6. Add Phase C.
7. Adjust pH-value.

**Specification:**
Appearance: White cream, pH-value: 5.0 - 5.5, Viscosity Brookfield (21°C): TC93; 10rpm / helip.: 10000 - 20000 mPas
Stability test: passed  Microbiological safety: challenge tests passed

**Application**
Natural Moisturizing Essential Cream
- Bright white O/W-emulsion
- Caring cream with a smooth skin feel for every day
- Can be complemented with an oil concentrate for even more nourishment

**Natural Mix-In Moisturizing Boost**
- Oil concentrate
- Intensive orange color from natural Seabuckthorn Pulp Oil
- Just add a few drops to the basic cream and mix in to enhance the richness of a cream

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**NATURAL MIX-IN MOISTURIZING BOOST**

**APPLICATION**
Mix & Activate includes cosmetic products with multifunctional applications. Create your individual skin care according to your needs:

1. The caring cream with jojoba and almond oil is the perfect base for every day. Antioxidants protect the skin from damage caused by free radicals. If a richer care is necessary, it can be perfectly combined with an oil concentrate (2).

2. Sometimes it has to be a little more. In order to activate full moisturization and nourishment within the basic cream, add this natural oil concentrate and give your skin more care. The concentrate can be dosed to individual needs. The degree of color intensity shows you how rich your cream is.

**Challenges**
Natural Moisturizing Essential Cream
- To comply with the NaTrue standard for an O/W-emulsion, a content of minimum 10% natural substances is required
- Stabilizing the high amount of vegetable oils physically and microbiologically and create a pleasant sensory profile
- With powerful natural actives to protect and strengthen the skin

Natural Mix-In Moisturizing Boost
- To fulfill the NaTrue standard for an oil concentrate, a high content of natural substances is required (minimum 90%)
- The high amount of vegetable oils needs efficient antioxidant protection and on top a protective antimicrobial protection is recommended
- The concentrate is only used with a few droplets, so the dosage of protective antioxidants is very high

*See page 6 and 7*
THE TREND: TRANSFORMATION

This transforming texture delivers a "wow factor" and attracts consumers’ attention.

Our transforming foundation does not only provide this surprising moment, due to its very fluid texture it is also convenient to apply and distribute while leaving a silky and powdery finish. There is no need to use a mattifying powder afterwards.

APPLICATION & SENSORY

• Low viscous, almost liquid foundation based on an O/W emulsion
• Texture transforming during application
• Light, serum-like application
• Easy to apply and to distribute on the skin
• Provides a nourished but matte powdery finish

CHALLENGES

• Stabilizing the low viscous emulsion with a high content of pigments
• Multifunctional mixture of surface active ingredients for efficient antimicrobial protection and beyond that, improvement of pigment dispersion
• Complete product protection with natural chelating agent and antioxidant

LIQUID TO POWDER FOUNDATION

Claims:

Liquid emulsion with a silky powder finish
High load of pigments well dispersed with dermosoft® OMP
Natural content c<sub>p</sub>: 71.6%, Natural origin content c<sub>n</sub>: 95.0% (incl. water, ISO 16128)

Phase | Ingredient | INCI (EU) | Supplier | %
--- | --- | --- | --- | ---
A | Glycerin 99.5 % | Glycerin | diverse | 5.00
| Deionised Water | Aqua | | 61.25
| dermosoft® OMP | Methylpropanediol; Caprylyl Glycol; Phenylpropanol | Evonik | 3.00
| dermofeel® PA-3 | Sodium Phytate; Aqua; Alcohol | Evonik | 0.10
| Trisodium Citrate Dihydrate | Sodium Citrate | Jungbunzlauer | 0.15
A1 | Keltrol CG-SFT | Xanthan Gum | CP Kelco | 0.40
| Ronaflow M-Sphere | Mica; Silica | Merck | 5.00
| TEGO® Feel C 10 | Cellulose | Evonik | 5.00
A2 | Sicovit Yellow 10 E 172 | CI 77492 | Huntsman | 1.20
| Sicovit Red 30 E 172 | CI 77491 | Huntsman | 0.40
| Sicovit Black 80 E 172 | CI 77499 | Huntsman | 0.10
| Purolan E 171 A | CI 77891 | Kronos | 6.00
B | dermofeel® easymuls plus | Glyceryl Oleate Citrate | Evonik | 2.00
| dermofeel® sensolv MB | Isoamyl Laurate | Evonik | 4.00
| TEGOSOFT® DC MB | Decyl Cocoate | Evonik | 6.00
| dermofeel® Toco 70 non GMO | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 0.10
C | Perfume | Parfum | diverse | 0.30
100.00

Processing:
1. Premix phase A and phase B separately.
2. Add phase A1 to phase A under stirring and wait until everything is dispersed.
5. Homogenize.
6. Adjust pH-value to 6.0-6.5 if necessary.

Specification:

Appearance: Brown, liquid lotion
pH-value: 6.0 - 6.5
Viscosity Brookfield (21°C): TC93; 10rpm / helip.: 2000 - 6000 mPas

Stability test: passed

Microbiological safety: challenge test passed
THE TREND: TRANSFORMATION

This massage gel convinces with a surprising sensory experience and its practical advantages in application. It solves two main issues with massage oils:

1) no dripping
2) no greasy residues.

It is very easy to handle due to the gel like texture. The gel transforms into a pleasant liquid massage oil during application. Due to the mild and caring ingredients, the oil can remain on the skin after massage. If desired, it can be easily washed off and unfolds a light foam.

APPLICATION & SENSORY

- Yellow, high viscous gel-like texture
- Transforms during application
- Melts into a liquid massage oil in contact with the warmth of the skin
- The oil can remain on the skin or be rinsed off with a light foaming effect
- Leaves a soft and well cared skin feel

CHALLENGES

- Stabilizing a very high oil content and a very low water phase into a transparent, semi-solid gel-like texture with a quick-breaking effect
- Creating a composition that can be used both as leave on or rinse off product with a low amount of emulsifier
- Wetting agent for protective preservation of the formulation and a foam boosting effect

**Claims:**

- Gel-to-oil transformation with self-emulsifying rinse off effect
- High content of dermofeel® TocoBalance to protect skin and product
- Natural content $\leq$ 53.1%, Natural origin content $\leq$ 100% (incl. water, ISO 16128)

**Phase** | **Ingredient** | **INCI (EU)** | **Supplier** | **%**
--- | --- | --- | --- | ---
A | Glycerin, 99.5%, Ph. Eur. | Glycerin | Cremer Oleo | 15.00
| TEGO® Care PBS 6 MB | Polyglyceryl-6 Stearate; Polyglyceryl-6 Behenate | Evonik | 2.00
B | TEGOSOFT® DC MB | Decyl Cocoate | Evonik | 29.15
| Sunflower Oil, pressed, organic | Helianthus Annuus Seed Oil | Henry Lamotte | 50.00
| Seabuckthorn Pulp Oil | Hippophae Rhamnoides Fruit Oil | Henry Lamotte | 0.10
| dermofeel® GMCY MB | Glyceryl Caprylate | Evonik | 0.50
| dermofeel® TocoBalance | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 1.50
| Perfume | | diverse | 0.25
C | Deionised Water | Aqua | | 1.50

**Processing:**

1. Heat phase A up to 78°C under medium stirring.
2. Heat phase B up to 60°C.
3. Emulsify phase B into phase A with droplets under high stirring.
4. Add phase C under stirring.

**Specification:**

- Appearance: Yellow, translucent gel
- Viscosity (Brookfield (21°C); TF; Speed 10 rpm): 130000 - 180000 mPas
- Stability test: passed

**Phase Ingredient INCI (EU) Supplier %**

**References:**

- See page 6 and 7

**Natural Mango Massage Oil-Gel**

**Claim:**

- Gel-to-oil transformation with self-emulsifying rinse off effect
- High content of dermofeel® TocoBalance to protect skin and product
- Natural content $\leq$ 53.1%, Natural origin content $\leq$ 100% (incl. water, ISO 16128)

**Phase** | **Ingredient** | **INCI (EU)** | **Supplier** | **%**
--- | --- | --- | --- | ---
A | Glycerin, 99.5%, Ph. Eur. | Glycerin | Cremer Oleo | 15.00
| TEGO® Care PBS 6 MB | Polyglyceryl-6 Stearate; Polyglyceryl-6 Behenate | Evonik | 2.00
B | TEGOSOFT® DC MB | Decyl Cocoate | Evonik | 29.15
| Sunflower Oil, pressed, organic | Helianthus Annuus Seed Oil | Henry Lamotte | 50.00
| Seabuckthorn Pulp Oil | Hippophae Rhamnoides Fruit Oil | Henry Lamotte | 0.10
| dermofeel® GMCY MB | Glyceryl Caprylate | Evonik | 0.50
| dermofeel® TocoBalance | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 1.50
| Perfume | | diverse | 0.25
C | Deionised Water | Aqua | | 1.50

**Processing:**

1. Heat phase A up to 78°C under medium stirring.
2. Heat phase B up to 60°C.
3. Emulsify phase B into phase A with droplets under high stirring.
4. Add phase C under stirring.

**Specification:**

- Appearance: Yellow, translucent gel
- Viscosity (Brookfield (21°C); TF; Speed 10 rpm): 130000 - 180000 mPas
- Stability test: passed
THE TREND: TO GO

Inspired by the Korean skin care, the trend of facial cleansing sticks started becoming a big topic. The water-free stick application is ideal for travelling and on the go. The handy two-in-one stick gently cleanses face and body skin and leaves a caring after feel.

APPLICATION & SENSORY

• Ideal wash stick for being on the go
• Water free stick for body and face
• Apply the stick evenly overdamp skin and wash it as usual with water
• Creates a creamy and mild foam
• Leaves a soft and cared skin feel

CHALLENGES

• To comply with the COSMOS Natural Standard, raw materials with an organic content need to be certified
• Balancing and stabilizing water-free surfactants and an oil base to create a formulation with a creamy foam
• Although the stick is water-free, a protective preservation has been used, which additionally has a foam boosting effect
• High content of vegetable oils are protected by antioxidants

TO GO: WATERFREE CLEANSING STICK, THE CONVENIENT RINSE-OFF ALTERNATIVE

DEVELOPED ACCORDING TO QUALITATIVE AND QUANTITATIVE REQUIREMENTS OF COSMOS NATURAL*

NATURAL FACE & BODY CLEANSING STICK L098-12.4-0818

Claims:

Waterfree stick formulation with creamy foam
dermofeel® Toco 70 non GMO for product protection
Natural content ≥ 16%, Natural origin content ≥ 100% (incl. water, ISO 16128)

Phase | Ingredient | INCI (EU) | Supplier | %
--- | --- | --- | --- | ---
A | TEGO® Alkanol 1618 MB | Cetearyl Alcohol | Evonik | 28.00
Sulfopon 1216 G MB | Sodium Coco-Sulfate | BASF | 50.00
TEGO® Feel C 10 | Cellulose | Evonik | 2.50
dermofeel® viscid MB | Hydrogenated Vegetable Oil | Evonik | 2.50
dermofeel® sensolv MB | Isomyl Laurate | Evonik | 1.00
Coconut Oil, refined, organic | Cocos Nucifera Oil | Henry Lamotte | 2.00
Cocoa Butter Pellets | Theobroma Cacao Seed Butter | Henry Lamotte | 2.00
TEGO® SMO V MB | Sorbitan Oleate | Evonik | 0.20
Castor Oil, refined | Ricinus Communis Seed Oil | Henry Lamotte | 2.30
Macadamia Nut Oil, refined | Macadamia Integrifolia/Tetraphylla Seed Oil | Henry Lamotte | 3.00
Jojoba Oil, refined | Simmondsia Chinensis Seed Oil | Henry Lamotte | 4.00
dermofeel® P-30 MB | PCA Glyceryl Oleate | Evonik | 0.80
dermoseft® GMCY MB | Glyceryl Caprylate | Evonik | 0.50
dermofeel® Toco 70 non GMO | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 0.20
B | Perfume | Parfum | diverse | 1.00

100.00

Processing:

1. Mix ingredients of phase A one after the other.
2. Heat up to 80°C while stirring until everything is melted.
3. Add phase B, homogenize and fill directly into sticks.
4. Leave untouched for 2h and put it into a freezer for 1h.

Specification:

Appearance: Light beige stick

Stability test: passed

* See page 6 and 7
THE TREND: TO GO

Sunscreen sticks are easy to use at any time and are perfect to top up the sun protection or be at hand for spontaneous outdoor activities.

The mineral sun protection stick with estimated SPF 25 can be distributed in a targeted manner. It is ideal on-the-go and cannot leak in the bag.

Through the antioxidants the skin is protected against free radicals.

APPLICATION & SENSORY

• Water-free stick formulation with mineral UV-filters
• Smooth distribution on the skin
• Transparent during application
• Non sticky, matte and velvet skin feel
• Leaves the skin well cared

CHALLENGES

• Sunscreen products on the go are likely to be exposed to various temperatures and always need to be ready to use
• Thorough stabilization in a water-free formulation with mineral UV-filters is key, but a pleasant and balanced skin feel is required as well
• Multifunctional wetting agent supports the dispersion of the mineral UV-filters and offers a protective antimicrobial protection
• Efficient antioxidant protection is important in sunscreens to protect skin and product against free radicals

NATURAL SUN PROTECTION STICK

Claims:
Mineral UV-filter stick to go with estimated SPF 25 UVA / UBV balance
dermofeel® TocoBalance for skin and product protection
Natural content ≥ 42.3%, Natural origin content ≥ 99.9% (incl. water, ISO 16128)

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI (EU)</th>
<th>Supplier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Safflower Oil, pressed, organic</td>
<td>Carthamus Tinctorius Seed Oil</td>
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<tr>
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<td>Shea Butter, refined</td>
<td>Butyrospermum Parkii Butter</td>
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<td></td>
<td>Seabuckthorn Pulp Oil</td>
<td>Hippophae Rhamnoides Fruit Oil</td>
<td>Henry Lamotte</td>
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<tr>
<td></td>
<td>dermofeel® sensolv MB</td>
<td>Isomyl Laurate</td>
<td>Evonik</td>
<td>10.00</td>
</tr>
<tr>
<td></td>
<td>dermofeel® viscold MB</td>
<td>Hydrogenated Vegetable Oil</td>
<td>Evonik</td>
<td>10.00</td>
</tr>
<tr>
<td></td>
<td>TEGOSOFT® DC MB</td>
<td>Decyl Cocoate</td>
<td>Evonik</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td>TEGOSOFT® OER MB</td>
<td>Oleyl Erucate</td>
<td>Evonik</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td>Kahlwax 8T04</td>
<td>Cera Alba</td>
<td>KahlWax</td>
<td>5.00</td>
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<tr>
<td></td>
<td>Kahlwax 6607L</td>
<td>Helianthus Annuus Seed Cera; Tocopherol; Ascorbyl Palmitate</td>
<td>KahlWax</td>
<td>3.00</td>
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<tr>
<td></td>
<td>Kahlwax 2039L</td>
<td>Candelilla Cera</td>
<td>KahlWax</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>dermofeel® TocoBalance</td>
<td>Tocopherol; Helianthus Annuus Seed Oil</td>
<td>Evonik</td>
<td>1.50</td>
</tr>
<tr>
<td></td>
<td>dermosoft® GMCY MB</td>
<td>Glyceryl Caprylate</td>
<td>Evonik</td>
<td>1.00</td>
</tr>
<tr>
<td>B</td>
<td>Corn P04 PH “B” Distarch Phosphate</td>
<td>Agrana</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TEGO® Feel C 10</td>
<td>Cellulose</td>
<td>Evonik</td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td>Zano 10</td>
<td>Zinc Oxide</td>
<td>EverZinc</td>
<td>20.00</td>
</tr>
<tr>
<td>C</td>
<td>Perfume</td>
<td>Parfum</td>
<td>diverse</td>
<td>0.70</td>
</tr>
</tbody>
</table>

Total: 100.00%

Processing:
1. Heat phase A up to 80°C.
2. Add phase B while stirring.
3. Homogenize.
4. Start to cool down and add phase C below 75°C.
5. Fill into containers at approx. 65-70°C.

Specification:
Appearance: Light yellow solid stick

Stability test: passed

* See page 6 and 7
The reduction of water within formulations and during the use of cosmetic products is important for consumers who are concerned about the limitation of this resource. Our formulations cover both leave on and rinse off applications with great functionality.

AWARENESS – UNDER THIS EXPRESSION, WE COLLECTED NATURAL FORMULATIONS THAT DEMONSTRATE WAYS ON HOW TO REFER TO DIFFERENT TRENDS REGARDING THE COMPOSITION OF COSMETICS AND THE CHOICE OF RAW MATERIALS.

AWARENESS

going beyond

BENEFITS FROM TECHNOLOGY – USING SMART INGREDIENTS.
Modern technologies behind ingredients offer new opportunities for cosmetic product concepts. Find here two very different products which both base on key raw materials that have a special story behind them.

MINIMALISM – REDUCTION TO THE ESSENTIAL.
Sometimes, less is more and it can be rewarding to cut down to the most necessary. In these formulations, we limited to a maximum of ten ingredients per recipe. What we did not reduce is the sensory appeal and performance of the formulations.

WATERFREE – YOU CAN DO WITHOUT.
The reduction of water within formulations and during the use of cosmetic products is important for consumers who are concerned about the limitation of this resource. Our formulations cover both leave on and rinse off applications with great functionality.

The market for natural cosmetics has developed over the last decade and became more and more diverse. The same applies to the consumers who are interested in natural cosmetics. The underlying motivation for using natural cosmetics can be different for the individual, but many of them care about the impact of their consumption habits.
# BENEFITS FROM TECHNOLOGY

## THE TREND: BENEFITS FROM TECHNOLOGY

Plant-derived and nature-identical ingredients are the heroes of this formulation. A light, serum-like texture is made possible with ingredients from such unusual sources like pea, basil or wood. Powerful actives that were created with the help of biotechnological processes provide this formulation with its special care and protect effects. Moisturization and soothing care for the skin after shaving and for a well-groomed beard.

## APPLICATION & SENSORY

- The ideal beard care or after shave care for men
- Serum-like active cosmetics
- Light and soft gel-emulsion with low viscosity
- Refreshing gel character when applied
- Develops a creamy and caring feel during application
- Provides a nourished but matte afterfeel

## CHALLENGES

- To fulfill the NaTrue standard, it requires a minimum amount of 10% natural substances
- The challenge is to stabilize the high amount of vegetable oils physically and microbiologically and create an especially light sensory profile
- Incorporation of powerful natural actives to protect and strengthen the skin during and after shaving

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### NATURAL BEARD CARE SERUM  L098-4.7A-1118

**Claims:**
- Light skin feel and non-soaping emulsion based on symbio®prot V MB
- Blemish prevention, barrier strengthening and hair conditioning active ingredients

**Natural content c<sub>n</sub>: 89.5%, Natural origin content c<sub>n</sub>: 100% (incl. water, ISO 16128)**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI (EU)</th>
<th>Supplier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Glycerin</td>
<td>Glycerin</td>
<td>Cremer Oleo</td>
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<tr>
<td></td>
<td>Deionised Water</td>
<td>Aqua</td>
<td></td>
<td>75.78</td>
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<tr>
<td></td>
<td>dermofool® anizate eco</td>
<td>Sodium Anisate</td>
<td>Evonik</td>
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<tr>
<td></td>
<td>dermofool® PA-12</td>
<td>Sodium Phytate</td>
<td>Evonik</td>
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</tr>
<tr>
<td>A1</td>
<td>symbio®prot V MB</td>
<td>Hydrolyzed Vegetable Protein; Sodium Citrate; Magnesium Stearate; Xanthan Gum</td>
<td>Evonik</td>
<td>3.00</td>
</tr>
<tr>
<td>B</td>
<td>TEGIN® M Pellets MB</td>
<td>Glyceryl Stearate</td>
<td>Evonik</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td>Sunflower Oil, pressed, organic</td>
<td>Helianthus Annuus Seed Oil</td>
<td>Henry Lamotte</td>
<td>5.00</td>
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<tr>
<td></td>
<td>Argan Oil, cold pressed, organic</td>
<td>Argania Spinosa Kernel Oil</td>
<td>Henry Lamotte</td>
<td>6.00</td>
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<td>dermofool® decalact sebum MB</td>
<td>Polyglyceryl-10 Laurate; Sodium Caproyl/Lauroyl Lactylate; Glycerin; Serenoa Serrulata Fruit Extract; Juniperus Communis Fruit Extract</td>
<td>Evonik</td>
<td>2.00</td>
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<tr>
<td></td>
<td>Hairflux®</td>
<td>Olea Europaea Fruit Oil; Ricinus Communis Seed Oil; Ceramide Ng</td>
<td>Evonik</td>
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<td></td>
<td>TEGO® Feel C 10</td>
<td>Cellulose</td>
<td>Evonik</td>
<td>1.00</td>
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<tr>
<td></td>
<td>dermofool® Toco 70 non GMO</td>
<td>Tocopherol; Helianthus Annuus Seed Oil</td>
<td>Evonik</td>
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<td></td>
<td>dermofool® GMCY MB</td>
<td>Glyceryl Caprylate</td>
<td>Evonik</td>
<td>0.20</td>
</tr>
<tr>
<td>B1</td>
<td>TEGOSOFT® DC MB</td>
<td>Decyl Cocoate</td>
<td>Evonik</td>
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</tr>
<tr>
<td></td>
<td>Phytosphingosine</td>
<td>Phytosphingosine</td>
<td>Evonik</td>
<td>0.20</td>
</tr>
<tr>
<td>C</td>
<td>dermofool® 700 B</td>
<td>Levulinic Acid; Sodium Levulinate; Aqua; Glycerin</td>
<td>Evonik</td>
<td>1.50</td>
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<tr>
<td></td>
<td>Perfume</td>
<td>Parfum</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100.00</td>
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</table>

**Processing:**

2. Add components of phase B1 and heat up to 90 °C until a clear solution is obtained.
3. Heat phase B up to 78°C.
4. Add components of phase B1 to B and heat up to 78 °C.
5. Emulsify phase B1/B into phase A/A1 under stirring.
6. Homogenize.
7. Start to cool down fast under medium stirring.
8. Add phase C below 40°C and cool down to room temperature.
9. Adjust pH-value carefully with high diluted citric acid.

**Specification:**

- Appearance: Light beige serum
- pH-value: 5.0 - 5.5
- Viscosity (Brookfield (21°C); RV4; Speed 100 rpm): 1000 - 5000 mPas

**Microbiological safety:** challenge tests passed

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* See page 6 and 7
THE TREND: BENEFITS FROM TECHNOLOGY

A formulation with only a low number of ingredients for a minimalistic product concept that appeals to the conscious consumer.

The key to this formulation concept are ingredients based on modern technologies:
- Either from biotechnological manufacturing for 100% biodegradable, nature-identical substances or from the use of the remains of food production.

This aquagel is like a cucumber detox-drink for the skin.

APPLICATION & SENSORY

- Mild cleansing and moisturization in one step
- Ideal as second step in the face care routine after cleansing
- Mild – no need to rinse off
- Liquid, water-like gel texture, like an Asia-inspired essence
- Cucumber water inspired appearance
- Very refreshing
- Leaves the skin clean and plump with moisture

CHALLENGES

- Exploiting the multifunctionality of powerful but mild ingredients for a gentle minimalistic concept
- Creating a non-tacky, liquid and transparent gel containing a plant extract and a perfume, well stabilized
- Providing moisturizing and mild cleansing properties with good skin compatibility

NATURAL REFRESHING CUCUMBER AQUAGEL

Claims: Micellar gel-water with mild cleansing properties with RHEANCE® One
Moisturizing and gentle due to dermosoft® Pentiol eco
Natural content c<sub>n</sub>: 89.8%, Natural origin content c<sub>o</sub>: 100% (incl. water, ISO 16128)

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI (EU)</th>
<th>Supplier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Deionised Water</td>
<td>Aqua</td>
<td></td>
<td>89.20</td>
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<td>Glycerin 99.5%, Ph. Eur.</td>
<td>Glycerin</td>
<td>Cremer Oleo</td>
<td>5.00</td>
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<tr>
<td></td>
<td>dermosoft® PA-3</td>
<td>Sodium Phytate; Aqua; Alcohol</td>
<td>Evonik</td>
<td>0.10</td>
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<tr>
<td></td>
<td>dermosoft® Pentiol eco</td>
<td>Pentylene Glycol</td>
<td>Evonik</td>
<td>3.50</td>
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<tr>
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<td>Keltrol CG-SFT</td>
<td>Xanthan Gum</td>
<td>CP Kelco</td>
<td>0.50</td>
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<tr>
<td>B</td>
<td>RHEANCE® One</td>
<td>Glycolipids</td>
<td>Evonik</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>Perfume</td>
<td>Parfum</td>
<td>diverse</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td>Cucumber (Gurke) Extract, organic</td>
<td>Glycerin; Aqua; Cucumis Sativus Fruit Extract</td>
<td>Botanica</td>
<td>0.20</td>
</tr>
</tbody>
</table>

100.00

Processing:
1. Mix phase A and phase B separately.
2. Add phase A under stirring to phase B.
3. Adjust pH-value if necessary.

Specification:
Appearance: Light yellowish clear gel
pH-value: 6.0 - 7.0
Viscosity Brookfield (21°C): RV 4; 10 rpm: 1000 - 3000 mPas

Stability test: passed

Microbiological safety: challenge tests passed

BENEFITS FROM TECHNOLOGY:
GEL-TONIC FOR CLEANSING AND MOISTURIZATION

* See page 6 and 7
THE TREND: MINIMALISM

A bunch of benefits in one lip balm with only 10 ingredients: the goodness of vegetable oils, known for their skin care properties, combined with protecting active ingredients.

A well-stabilized oil gel that is easy to handle. It has a pampering sensory profile ranging from the appearance of the product to the look in use to the aroma and the feel on the lips.

APPLICATION & SENSORY

- Opaque, tinted oil gel
- Smooth and shiny surface of the product
- Provides a light color and gloss to the lips
- Slightly melts and reveals the sensory profile of the emollients
- Smooth and velvet feeling on the lips

CHALLENGES

- Stabilizing vegetable oils into an oil gel without the use of waxes or other thickeners
- Adding various properties with the least possible number of ingredients by using multifunctional materials
- Balancing out the sensory profile

NATURAL HONEYMELON LIP BALM L098-14.7-1218

Claims:
- Tinted lip care with antioxidant protection for skin and product
- Well stabilized oil gel with a smooth and velvet sensory profile
- Natural content \( c_n \) 93.8%, Natural origin content \( c_{no} \) 100% (incl. water, ISO 16128)

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
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<th>Supplier</th>
<th>%</th>
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</thead>
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<td>Sunflower Oil, pressed, organic</td>
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<td>TEGO® Feel C 10</td>
<td>Cellulose</td>
<td>Evonik</td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td>dermofeel® viscid MB</td>
<td>Hydrogenated Vegetable Oil</td>
<td>Evonik</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>dermosoft® GMC MB</td>
<td>Glyceril Caprate</td>
<td>Evonik</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td>dermofeel® TocoBalance</td>
<td>Tocopherol; Helianthus Annuus Seed Oil</td>
<td>Evonik</td>
<td>1.50</td>
</tr>
<tr>
<td></td>
<td>Aroma</td>
<td>Aroma</td>
<td>diverse</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>Color Dispersible_Sweet Potato Red Powder¹</td>
<td>Distarch Phosphate; Anthocyanins; Citric Acid</td>
<td>Omya Hamburg</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Total: 100.00

Processing:
1. Mix ingredients one after the other and heat up to 65°C under medium stirring until a clear solution is obtained.
2. Start to cool down under medium stirring and stir until a turbid oil solution is obtained (point of turbidity approx. 36°C).
3. Homogenize.
4. Leave batch untouched until a homogeneous gel is obtained and fill in containers.

Specification:
- Appearance: Dark pink viscous oil gel
- Viscosity (Brookfield (21°C); TF; Speed 10 rpm): 300000 - 500000 mPas
- Stability test: passed

¹Not considered for calculation of \( c_n \) and \( c_{no} \)

DEVELOPED ACCORDING TO QUALITATIVE AND QUANTITATIVE REQUIREMENTS OF COSMOS NATURAL*
THE TREND: MINIMALISM

A formulation with multiple properties with a number of only 10 ingredients and 10 resulting INCI positions. Ideal for skin care routines that aim to reduce to the most essential but should still provide convenience.

The spray provides moisturization and nourishment in one product like an emulsion, but with a different, sprayable texture. The minimalist concept moreover features active ingredients and the positioning for the use as an aroma-wellness product.

APPLICATION & SENSORY

- Liquid with two distinctly separate phases that need to be mixed by shaking before application
- Colored oil phase and transparent water phase
- Can be used in a sprayable application
- Addition of a natural perfume or essential oil for use in aromatherapy
- Moisturizing and caring skin feel

CHALLENGES

- Separating the two phases sharply and reversibly after mixing
- Protecting the hydrophilic and lipophilic phase individually
- Extra benefits added for skin care activity, perfume and color with only a minimum amount of different ingredients

**NATURAL AROMATHERAPY BI-PHASE SPRAY-SERUM**

**Claims:** Sprayable shake-before-use application with refreshing sensory
Mild, moisturizing and antioxidative effect
Natural content \(c_{NH} 94.3\%\), Natural origin content \(c_{NO} 100\%\) (incl. water, ISO 16128)

**Phase** | **Ingredient** | **INCI (EU)** | **Supplier** | **%**
--- | --- | --- | --- | ---
A | Deionised Water Aqua | 71.60
| dermofeel® Pentyl ecos | Pentylene Glycol Evonik 5.00
| dermofeel® PA-12 | Sodium Phytate Evonik 0.10
| Sodium Chloride | Sodium Chloride diverse 0.70
B | Jojoba Oil, refined Simmondsia Chinensis Seed Oil | Henry Lamotte 10.00
| Sunflower Oil, pressed, organic Helianthus Annuus Seed Oil | Henry Lamotte 10.00
| dermofeel® TocoBalance | Tocopherol, Helianthus Annuus Seed Oil Evonik 1.50
| TEGO® Turmerone | Curcuma Longa Root Extract Evonik 0.30
| Gromwell (Steinsamen) Extract P-00025269 | Helianthus Annuus Seed Oil; Lithospermum Erythrorhizon Root Extract Botanica 0.10
| Orange Oil Sweet P0106656 | Citrus Aurantium Dulcis Peel Oil Frey & Lau 0.70

100.00

**Processing:**

1. Mix ingredients of phase A in given order one after the other.
2. Adjust pH-value of phase A if necessary.
3. Premix Phase B.
4. Add phase B to phase A by moderate stirring.

**Specification:**

- Appearance: Bi-Phase-Serum with clear waterphase and red oilphase
- pH-value: 6.0 - 7.0

**Stability test:** passed

**Microbiological safety:** challenge test passed

* See page 6 and 7
THE TREND: WATERFREE
There is a revival of traditional solid soap bars coming along with the trend of compact and waterfree cosmetic products.

This Shampoo & Body Bar is a convenient alternative to bar soaps and suitable for body and hair care. It has a great performance in terms of good cleansing properties and a very pleasant skin feel after rinse off. Because of its compact and light form and no risk of leakage from a bottle, this bar is also ideal e.g. for travelling.

APPLICATION & SENSORY
• Mild cleanser in bar form
• For application on body and hair
• Creates a milky and light foam in contact with water
• Skin and hair feels soft and well cared after rinse off

CHALLENGES
• Composing a completely water-free formulation based on oils, butters and stabilizers in COSMOS approved quality
• Finding a balance between emulsification properties, foam quality and sensory and caring effect
• Ensure mildness and a pleasant skin feel during and after application

NATURAL SHAMPOO & BODY BAR L098-2.4-0818

Claims: Waterfree rinse off bar to pick up for travelling
Care effect due to TEGO® Feel C 10 and dermofeel® sensolv MB
Natural content cn: 25.7%, Natural origin content cno: 100% (incl. water, ISO 16128)

Phase: Ingredient | INCI (EU) | Supplier | %
--- | --- | --- | ---
A TEGO® Alkanol 1618 MB | Cetaryl Alcohol | Evonik | 29.00
Cocoa Butter Pellets | Theobroma Cacao Seed Butter | Henry Lamotte | 10.00
Sulfopon 1216 G MB | Sodium Coco-Sulfate | BASF | 40.00
dermofeel® sensolv MB | Isoamyl Laurate | Evonik | 1.00
Broccoli Seed Oil, cold pressed, organic | Brassica Oleracea Italica Seed Oil | Henry Lamotte | 2.00
dermocloud® GMCY MB | Glyceryl Caprylate | Evonik | 0.50
dermofeel® P-30 MB | PCA Glyceryl Oleate | Evonik | 0.80
Jojoba Oil, refined | Simmondsia Chinensis Seed Oil | Henry Lamotte | 10.50
RonaCare Zinc Oxide | Zinc Oxide | Merck | 2.00
TEGO® SMO V MB | Sorbitan Oleate | Evonik | 1.00
TEGO® Feel C 10 | Cellulose | Evonik | 3.00
dermofeel® Toco 70 non GMO | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 0.20

100.00

Processing:
1. Mix ingredients of phase A one after the other.
2. Heat up to 80°C while stirring until everything is melted.
3. Homogenize.
4. If there are too many bubbles keep stirring at low speed at 80 °C for 15 min.
5. Fill directly into forms at minimum and permanent temperature of 70 °C.
6. Leave untouched and put it into a freezer for 1h.

Specification:
Appearance: off-white bar
Stability test: passed
THE TREND: WATERFREE

Leaving out water to save resources can be a goal of eco-conscious consumers, but they might still be expecting products with a good performance and practicability in application. Especially for a leave on application like this concealer stick, a nice sensory profile and a great function is required.

APPLICATION & SENSORY

• Highly pigmented firm stick
• Good color transfer and easy to apply
• Can be blended into the skin for a flawless look
• Caring and smooth skin feel with a semi-matte finish

CHALLENGES

• Realizing a composition with a high natural origin content by mainly using materials fully based on renewables
• Thorough stabilization with good durability
• Good pigment dispersion and stabilization
• Balance out the skin feel of the purely lipophilic ingredients and create a non-greasy skin feel

NATURAL CARING CONCEALER STICK

Claims:
Non waxy, velvet finish with well stabilized high pigment load
High amount of dermofeel® TocoBalance to protect skin and ingredients
Natural content c,<43.4%, Natural origin content c<, 98.1% (incl. water, ISO 16128)

Phase | Ingredient | INCI (EU) | Supplier | %
--- | --- | --- | --- | ---
A | TEGOSOFT® MM MB | Myristyl Myristate | Evonik | 0.50
| Castor Oil, refined | Ricinus Communis Seed Oil | Henry Lamotte | 20.90
| dermofeel® sensolv MB | Isopropyl Laurate | Evonik | 5.00
| TEGOSOFT® DC MB | Decyl Cocoate | Evonik | 14.00
| TEGO® Alkanol 1618 MB | Cetearyl Alcohol | Evonik | 4.00
| dermofeel® GO soft | Polyglyceryl-2 Sesquiolate | Evonik | 1.00
| Saphien Par® | Olin Oil | ICI Oils | 9.00
| dermofeel® viscid MB | Hydrogenated Vegetable Oil | All Organic Treasures | 5.00
| Coposa Butter, cold pressed | Theobroma Grandiflorum Seed Butter | All Organic Treasures | 3.00
| Kahlwax 2039L | Candelilla Cera | KahlWax | 6.00
| Kahlwax 6642 | Copernicia Cerifera Cera | KahlWax | 2.00
| Kahlwax 8104 | Cera Alba | KahlWax | 7.00
| Kahlresin 6721 | Shorea Robusta Resin; Cera Alba | KahlWax | 1.00
| Grapefruit Oil S0100050 | Citrus Grandis Peel Oil | Frey & Lau | 0.20
| dermofeel® TocoBalance | Tocopherol; Helianthus Annuus Seed Oil | Evonik | 1.50
| dermosoft® GMC MB | Glyceryl Caprate | Evonik | 0.20
B | RonaCare Zinc Oxide | Zinc Oxide | Merck | 6.00
| Purolan E 171 A | C1 77891 | Kronos | 10.00
| Sicovit Yellow 10 E172 | C1 77492 | Huntsman | 1.20
| Sicovit Red 30 E 172 | C1 77491 | Huntsman | 0.40
| Sicovit Black 80 E172 | C1 77499 | Huntsman | 0.10
| TEGO® Feel C 10 | Cellulose | Evonik | 2.00

100.00

Processing:
1. Heat phase A up to 80-85°C while stirring.
2. Pre-mix and grind ingredients of phase B and add to phase A while stirring.
3. Pour into split-moulds at 75-70°C and put into a freezer for 30 min.
4. After reaching room temperature, remove stick from split-moulds and place into container.

Specification:
Appearance: Coloured wax stick

Stability test: passed
**Certification Status:**
The information and data given is based on available certifier information. We are not obliged to give confirmations on behalf of any certifiers. Regulations for approval and use can be changed from certifiers. Certifications will be submitted for prolongation periodically. For updated information please contact your certifier.

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