COSMETIC FORMULATIONS 2020/2021

Take care of your body, mind and soul

www.brenntag.com
BRENTTAG COSMETICS IS A LEADING DISTRIBUTOR AND SERVICE PROVIDER FOR COSMETIC INGREDIENTS. WE ARE COMPOSED OF A DEDICATED, EXPERIENCED TEAM WHICH IS COMMITTED TO DISCOVERING INNOVATIVE SOLUTIONS TO YOUR BUSINESS CHALLENGES.

Our vast portfolio includes surfactants, emulsifiers, emollients, preservatives, active ingredients, silicones, humectants, lactates, biocides, waxes, filmformers, emulsifiers and bleaching agents and many more.

Our cosmetics laboratory for the DACH region is based in Essen, Germany. It is here that our applications team works on the creation of innovative formulations, the assessment of specialty raw materials, sensory analyses, troubleshooting and the development of cosmetics performance solutions for our customers in Austria, Germany and Switzerland.

The Brenntag team has looked at a number of applications such as skin creams, masks, lotions, cleansers, oils, micellar waters, butters, hair styling, protection and care, colour cosmetics, UV protective sun care formulations and baby care concepts.

Moisturising, revitalising, protective, mild, mattifying, anti-aging, glossy, high defence - whichever definition your next technical brief contains, our Brenntag team can help develop tailor-made, novel formulations and concepts to differentiate your products. The following formulations focus specifically on texture and critical sensorial properties. These formulations further expand Brenntag’s extensive formulations library and product database, building on the expertise our Cosmetics Team is keen to share with their customers.
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<td>16</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
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<td>Repair and Care Shampoo with Apple Water</td>
<td>1-088-SR-06</td>
<td>17</td>
</tr>
</tbody>
</table>
FACIAL CARE

Even Better Skin Serum for Men

1-083-SL-17

PHASE | INGREDIENTS/TRADE NAME | INCI | %W/W | SUPPLIER
---|------------------------|------|------|--------
A | dem. Water | Aqua (Water) | 84.00 | On request
 | Xanthan Gum | Xanthan Gum | 0.50 | Brenntag
 | Glycerin | Glycerin | 3.00 | Inabata*
 | INACALM® | Bentonite (and) Silver Carboxymethylalaninate | 1.00 | Brenntag
 | 1,3-Butylene Glycol | Butylene Glycol | 4.00 | Brenntag
 | Alcohol 99.8% | Alcohol | 3.00 | Brenntag
B | OXISMOOTH® CO | Isoamyl Cocoate | 2.00 | Oxiteno*
 | PURAMEX® ZN | Zinc Lactate (and) Aqua | 1.00 | Corbion*
 | PURAC® HiPure 90 | Lactic Acid (and) Aqua | 1.00 | Corbion*
 | Phenoxyethanol | Phenoxyethanol | 1.00 | Brenntag
 | PURASAL® S/HQ 60 | Sodium Lactate (and) Aqua | 0.50 | Corbion*
 | DAILY CLEAN E_1864952 | Parfum (Fragrance) | 0.50 | MANE*

*Available from Brenntag

Procedure
1. Disperse xanthan gum in water and stir until hydrated.
2. Disperse INACALM® in glycerin and add the remaining ingredients of phase B step by step. Stir until uniform.
3. Add phase B to phase A under stirring.
4. Add the ingredients of phase C and adjust the pH-value to approximately 5.0.

Properties
/ Visual: opaque emulsion
/ pH-value: ~5.0
/ Viscosity (Brookfield, RVT, Sp.TC, 4rpm) @23°C: 3500 mPa.s

Stability
/ Stable over 3 months at 23°C, 40°C and 4°C.

Characteristics
/ INACALM® improves problem skin, reduces redness and fights inflammation
/ Puramex® ZN has a sebum control function
/ OXISMOOTH® CO is ideal for natural and mild formulations; it acts as an emollient and solubilizer
/ This cold process formulation is ideal to reduce production costs and to save the environment.

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1-080-SL-09  Stem Cell Repair Serum

<table>
<thead>
<tr>
<th>PHASE</th>
<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
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<tbody>
<tr>
<td>A</td>
<td>ESTERLAC© Balance+ NG</td>
<td>Sodium Lauroyl Lactylate</td>
<td>1.50</td>
<td>Corbion*</td>
</tr>
<tr>
<td></td>
<td>Glyceryl Stearate</td>
<td>Glyceryl Stearate</td>
<td>2.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Cetyl Alcohol</td>
<td>Cetyl Alcohol</td>
<td>2.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Ethylhexyl Palmitate</td>
<td>Ethylhexyl Palmitate</td>
<td>5.00</td>
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</tr>
<tr>
<td></td>
<td>Isopropyl Palmitate</td>
<td>Isopropyl Palmitate</td>
<td>5.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Camellia Organic CP Oil</td>
<td>Camellia Oleifera Seed Oil</td>
<td>4.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>CosVivet Beeswax white</td>
<td>Cera Alba</td>
<td>0.50</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Glycerin</td>
<td>Glycerin</td>
<td>5.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td>B</td>
<td>INAGEL Green</td>
<td>Glucomannan (and) Polyglyceryl-4 Laurate (and) Caprylic/Capric Triglyceride (and) Xanthan Gum</td>
<td>1.50</td>
<td>INABATA*</td>
</tr>
<tr>
<td></td>
<td>dem. Wasser</td>
<td>Aqua (Water)</td>
<td>70.00</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>STEMPROTECT®</td>
<td>Methylacetyl Methylpropanoyl Ethylcarbamate (and) Moringa Oleifera Seed Extract (and) Polysorbate</td>
<td>2.00</td>
<td>INABATA*</td>
</tr>
<tr>
<td></td>
<td>Phenoxyethanol</td>
<td>Phenoxyethanol</td>
<td>1.00</td>
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</tr>
<tr>
<td></td>
<td>SHINY`N CHIC E_1950618</td>
<td>Parfum (Fragrance)</td>
<td>0.50</td>
<td>MANE*</td>
</tr>
</tbody>
</table>

*Available from Brenntag

**Procedure**
1. Prepare phase A and heat to 75°C while stirring.
2. To prepare phase B, disperse INAGEL Green in water and glycerin and stir at 2000 rpm for 20 minutes.
3. Heat phase B to 75°C while stirring.
4. Add phase A slowly to phase B while stirring.
5. Cool down while stirring.
6. Add components listed under phase C below 40°C.
7. Adjust the pH value.

**Properties**
/ Visual: white emulsion
/ pH-value: ~5.3
/ Viscosity (Brookfield, RVT, Sp.TC, 4rpm) @23°C: 22750 mPa.s

**Stability**
/ Stability over 3 months at 23°C, 40°C and 4°C, 1 month at 50°C and -18°C.

**Characteristics**
/ STEMPROTECT® is an active ingredient for a brighter, younger looking skin. It also protects and regenerates the skin
/ ESTERLAC© Balance+ NG is a mild and natural emulsifier
/ INAGEL Green is a natural texturizing agent and thickener based on Konjac glucomannans. It is easily absorbed into skin and leaves the skin smooth, soft and non sticky

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1-058-HL-09  | Premium Beard Balm

**PHASE** | **TRADE NAME** | **INCI** | **%W/W** | **SUPPLIER**
--- | --- | --- | --- | ---
A | Castor Organic Oil | Ricinus Communis Seed Oil | 69.80 | Kerfoot* |
 | CosVivet Beeswax yellow | Cera Alba | 8.00 | Brenntag |
 | Macadamia Organic CP Oil | Macadamia Integrifolia Seed Oil | 3.00 | Kerfoot* |
 | Sunflower High Oleic organic RDW Oil | Helianthus Annuus (Sunflower) Seed Oil | 15.00 | Kerfoot* |
 | Berry Wax | Rhus Verniciflua Peel Cera | 3.00 | On request |
B | Rosemary Antioxidant | Brassica Campestris (Rapeseed) Seed Oil (and) Rosmarinus Officinalis (Rosemary) Leaf Extract | 0.50 | Kerfoot* |
 | Tocopherol | Tocopherol | 0.20 | On request |
 | NOURISH FROM HAIR TO TOE M_0064855 | Parfum (Fragrance) | 0.50 | MANE* |

*Available from Brenntag

**Procedure**
1. Melt the ingredients listed under phase A while stirring at 70°C until a homogeneous mixture is obtained.
2. Add components listed under phase B and stir until homogeneous.
3. Finally pour the melted mixture into the packaging and let it cool down.

**Properties**
/ Visual: yellow wax

**Stability**
/ Stable over 3 months at 23°C, 40°C and 4°C.

**Characteristics**
/ This beard balm formulation is based on natural ingredients and includes Brenntag’s own brand of CosVivet waxes
/ Rosemary Antioxidant protects the vegetable oils in the formulation from oxidation
/ MANE’s COSMOS-approved fragrance gives the formulation a trendy and pleasant scent

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1-094-SL-07  Nourishing Facial Oil

<table>
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<tr>
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<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
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<tbody>
<tr>
<td>A</td>
<td>Sweet Almond Organic CP FG Oil</td>
<td>Prunus Amygdalus Dulcis (Sweet Almond) Oil</td>
<td>50.50</td>
<td>Kerfoot*</td>
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<tr>
<td></td>
<td>Caprylic/Capric Triglyceride</td>
<td>Caprylic/Capric Triglyceride</td>
<td>30.00</td>
<td>Various*</td>
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<tr>
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<td>Aloe Vera Oil Extract</td>
<td>Aloe Barbadensis Leaf Extract (and) Helianthus Annus (Sunflower) Seed Oil</td>
<td>3.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>Tocopherol</td>
<td>Tocopherol</td>
<td>0.50</td>
<td>On request</td>
</tr>
<tr>
<td></td>
<td>Broccoli Seed Oil</td>
<td>Brassica Oleracea Italica Seed Oil</td>
<td>10.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>Seabuckthorn Organic CP Oil</td>
<td>Hippophae Rhamnoides Fruit Oil</td>
<td>5.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>BRIGHT BEAUTY E20055661</td>
<td>Parfum (Fragrance)</td>
<td>1.00</td>
<td>MANE*</td>
</tr>
</tbody>
</table>

*Available from Brenntag

Procedure
1. Add the ingredients of phase A one after the other and mix while stirring at RT.

Properties
/ Visual: orange liquid

Stability
/ Stable over 3 months at 23°C, 40°C and 4°C.

Characteristics
/ Includes Broccoli Seed Oil which is quickly absorbed into the skin and leaves the skin feeling pleasant and non greasy
/ Broccoli Seed Oil is also a natural retinol alternative
/ Seabuckthorn Organic CP Oil is a native plant with a high content of carotenoids
/ The facial oil is easy to formulate by cold process, with low energy and production costs
/ Water free formulation
**Procedure**
1. Melt pigments in castor oil at 90 - 95°C and then add jojoba oil. Stir until a homogenous mixture is obtained.
2. Weight phase B and melt at 90 - 95°C. Add phase B to A.
3. Finally pour the melted mixture into moulds.

**Properties**
/ Visual: colorful, matt stick formulation

**Stability**
/ Stable over 3 months at 23°C, 40°C and 4°C.

**Characteristics**
/ This Velvet Lipliner formulation includes Brenntag’s own brand of CosVivet waxes.
/ It includes the new range of KenaPure pigments.
Body Care

1-079-SR-04 Finest Deodorant Powder

<table>
<thead>
<tr>
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<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
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<tbody>
<tr>
<td>A</td>
<td>Tapioca Starch</td>
<td>Tapioca Starch</td>
<td>35.60</td>
<td>On request</td>
</tr>
<tr>
<td></td>
<td>Kaolin</td>
<td>Kaolin</td>
<td>40.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Bicar Food 0/6 P</td>
<td>Sodium Bicarbonate</td>
<td>23.60</td>
<td>Solvay*</td>
</tr>
<tr>
<td></td>
<td>Silvérion™ 2400</td>
<td>Citric Acid (and) Silver Citrate</td>
<td>0.20</td>
<td>Pure Bioscience*</td>
</tr>
<tr>
<td></td>
<td>PURAMEX® ZN</td>
<td>Zinc Lactate (and) Aqua</td>
<td>0.40</td>
<td>Corbion*</td>
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<tr>
<td></td>
<td>Bergamot Organic Essential Oil</td>
<td>Citrus Aurantium Bergamia Fruit Oil</td>
<td>0.20</td>
<td>Kerfoot*</td>
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</tbody>
</table>

Procedure
1. Add one ingredient after the other and mix until homogeneous.

Properties
/ Visual: white fine powder

Stability
/ Stable over 3 months at 23°C, 40°C and 4°C.

Characteristics
/ Silvérion™ 2400 has antimicrobial and preservative properties
/ The powder has deodorising properties and no odor protection
/ Puramex® ZN has a sebum control function

*Available from Brenntag
### BODY CARE

**1-073-SL-08 | Body Care Bar**

<table>
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<tr>
<th>PHASE</th>
<th>TRADE NAME</th>
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<tr>
<td>A</td>
<td>DUROSOFT® PG4-O</td>
<td>Polyglyceryl-4 Oleate</td>
<td>12.00</td>
<td>Stephenson*</td>
</tr>
<tr>
<td></td>
<td>Glyceryl Stearate</td>
<td>Glyceryl Stearate</td>
<td>16.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Cacao organic deodorised butter</td>
<td>Theobroma Cacao Seed Butter</td>
<td>34.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>Avocado Butter</td>
<td>Persea Gratissima Oil (and) Hydrogenated Vegetable Oil</td>
<td>6.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>Sheanut refined butter</td>
<td>Butyrospermum Parkii Butter</td>
<td>13.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td>B</td>
<td>Rosemary Antioxidant</td>
<td>Brassica Campestris (Rapeseed) Seed Oil (and) Rosmarinus Officinalis (Rosemary) Leaf Extract</td>
<td>0.50</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>TENDER VANILLA E_18C6525</td>
<td>Parfum (Fragrance)</td>
<td>0.50</td>
<td>MANE*</td>
</tr>
<tr>
<td></td>
<td>YuraQ M</td>
<td>Phytelephas Aequatorialis Seed Powder</td>
<td>5.00</td>
<td>Döhler GmbH*</td>
</tr>
<tr>
<td></td>
<td>Tapioca Starch</td>
<td>Tapioca Starch</td>
<td>13.00</td>
<td>On request</td>
</tr>
</tbody>
</table>

*Available from Brenntag

**Procedure**
1. Melt the ingredients listed under phase A while stirring at 70°C until a homogeneous mixture is obtained.
2. At 70°C add components listed under phase B and stir until homogeneous.
3. Finally pour the melted mixture into the mould and let it cool down.

**Properties**
/ Visual: white, creamy lotion bar

**Stability**
/ Stability tests over 3 months at 23°C, 30°C and 4°C are ongoing.

**Characteristics**
/ Water-free lotion bar based on natural ingredients
/ YuraQ M is a natural exfoliant derived from the tagua nut
/ Rosemary Antioxidant protects the vegetable oils in the formulation from oxidation
/ COSMOS approved DUROSOFT® PG4-O is a W/O emulsifier which can be used for waterfree formulation
/ Cocoa butter, avocado butter and sheanut butter moisturize, smooth and hydrate the skin, leaving a pleasant and soft skin feeling
1-103-SR-03  Fruity Micellar Cleansing Water

**PHASE** | **TRADE NAME** | **INCI** | **%W/W** | **SUPPLIER**
--- | --- | --- | --- | ---
A | dem. Water | Aqua (Water) | 65.55 | Kerfoot* |
A | Aloe Vera Juice 1:1 | Aloe Barbadensis Leaf Juice (and) Citric Acid (and) Sodium Benzoate (and) Potassium Sorbate | 10.00 | Döhler GmbH* |
A | Fruit Derived Water Apple | Malus Domestica Fruit Water | 10.00 | Brenntag |
A | Propylene Glycol | Propylene Glycol | 5.00 | Brenntag |
A | PURASAL® S/HQ 60 | Sodium Lactate (and) Aqua | 5.00 | Corbion* |
A | CosVivet APG DG64 | Decyl Glucoside | 3.80 | Brenntag |
A | Sodium Benzoate | Sodium Benzoate | 0.55 | On request |
A | Potassium Sorbate | Potassium Sorbate | 0.10 | Corbion* |
A | PURAC® HiPure 90 | Lactic Acid (and) Aqua | q.s. | Corbion* |

*Available from Brenntag

**Procedure**
1. Add the ingredients of phase A one after the other and mix while stirring at RT.
2. Adjust the pH value to 4.5-5.0.

**Properties**
/ pH-value: ~4.5
/ Viscosity (Brookfield, RVT, Sp.03, 20rpm) @23°C: <100 mPa.s
/ Visual: clear liquid

**Stability**
/ Stability tests over 3 months at 23°C, 40°C and 4°C are ongoing.

**Characteristics**
/ Aloe Vera Juice moisturizes the skin
/ Fruit Derived Water Apple is 100% sustainable, NATRUE and COSMOS approved as well as VEGAN
/ PURASAL® S/HQ 60 has the highest water holding capacity compared to other well known humectants
/ The CosVivet APG range is Brenntag’s own brand of mild and natural surfactants
/ PURAC® HiPure 90 UP is not only ideal for pH adjusting, it is an active ingredient which moisturizes the skin and stimulates cell renewal

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1-101-SR-04 Apple Body Shower Scrub

<table>
<thead>
<tr>
<th>PHASE</th>
<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>dem. Water</td>
<td>Aqua (Water)</td>
<td>47.15</td>
<td>Döhler GmbH*</td>
</tr>
<tr>
<td></td>
<td>Fruit Derived Apple Water</td>
<td>Malus Domestica Fruit Water</td>
<td>10.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Glycerin</td>
<td>Glycerin</td>
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</tr>
<tr>
<td></td>
<td>Xanthan Gum</td>
<td>Xanthan Gum</td>
<td>1.00</td>
<td>On request</td>
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<tr>
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<td>Sodium Benzoate</td>
<td>Sodium Benzoate</td>
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<td>Brenntag</td>
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<tr>
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<td>Potassium Sorbate</td>
<td>Potassium Sorbate</td>
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<td>CosVivet APG DG64</td>
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<td>CosVivet APG CG50</td>
<td>Caprylyl/Capryl Glucoside</td>
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<td>YuraQ Mesh 40/60</td>
<td>Phytalephas Aequatorialis Seed Powder</td>
<td>3.00</td>
<td>Döhler GmbH*</td>
</tr>
<tr>
<td></td>
<td>PRECIOUS APPLE E20101303</td>
<td>Parfum (Fragrance)</td>
<td>0.40</td>
<td>MANE*</td>
</tr>
<tr>
<td></td>
<td>PURASAL® MOISTXS</td>
<td>Aqua (and) Sodium Lactate (and) Sodium Gluconate</td>
<td>3.00</td>
<td>Corbion*</td>
</tr>
<tr>
<td></td>
<td>PURAC® HiPure 90 UP</td>
<td>Lactic Acid (and) Aqua</td>
<td>q.s.</td>
<td>Corbion*</td>
</tr>
</tbody>
</table>

*Available from Brenntag

Procedure
1. Dissolve xanthan gum in water until clear.
2. Add the other ingredients step by step in the given order while stirring at RT until homogenous.
3. Adjust the pH value to 4.5.

Properties
/ pH-value: ~4.5
/ Viscosity (Brookfield, RVT, Sp.03, 20rpm) @23°C: mPa.s
/ Visual: clear gel

Stability
/ Stability tests over 3 months at 23°C, 40°C and 4°C are ongoing.

Characteristics
/ The CosVivet APG range is Brenntag’s own brand of mild and natural surfactants
/ Fruit Derived Water Apple is 100% sustainable, NATRUE and COSMOS approved as well as VEGAN
/ YuraQ Mesh 40/60 is a natural exfoliant derived from the tagua nut
/ COSMOS certified PURASAL® MOISTXS moisturizes skin all day long (24h moisturizing effect)
### Body Cleansing

**1-098-SR-03 / Rosehip Shower Foam**

<table>
<thead>
<tr>
<th>PHASE</th>
<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>dem. Water</td>
<td>Aqua (Water)</td>
<td>76.74</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Cocamidopropyl Betaine</td>
<td>Cocamidopropyl Betaine</td>
<td>5.26</td>
<td>Various</td>
</tr>
<tr>
<td></td>
<td>Marlinat® 242/70 C</td>
<td>Sodium Laureth Sulfate</td>
<td>10.00</td>
<td>Sasol*</td>
</tr>
<tr>
<td></td>
<td>CosVivet APG CCG50</td>
<td>Caprylyl/Capryl Glucoside</td>
<td>1.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td></td>
<td>Glycerin</td>
<td>Glycerin</td>
<td>2.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td>B</td>
<td>Marlowet® CG</td>
<td>PEG-18 Castor Oil Dioleate</td>
<td>2.00</td>
<td>Sasol*</td>
</tr>
<tr>
<td></td>
<td>Rosehip refined oil</td>
<td>Rosa Canina Fruit Oil</td>
<td>1.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td>C</td>
<td>GARDEN PARTY E20056347</td>
<td>Parfum (Fragrance)</td>
<td>0.80</td>
<td>MANE*</td>
</tr>
<tr>
<td></td>
<td>PURAC® HiPure 90 UP</td>
<td>Lactic Acid (and) Aqua</td>
<td>0.55</td>
<td>Corbion*</td>
</tr>
<tr>
<td></td>
<td>Potassium Sorbate</td>
<td>Potassium Sorbate</td>
<td>0.10</td>
<td>Various</td>
</tr>
<tr>
<td></td>
<td>Sodium Benzoate</td>
<td>Sodium Benzoate</td>
<td>0.55</td>
<td>Brenntag</td>
</tr>
</tbody>
</table>

*Available from Brenntag

**Procedure**
1. Add the ingredients of phase A step by step in the given order while stirring at RT.
2. Premix phase B and dissolve in phase A until homogenous.
3. Add phase C and adjust the pH value to 4.5.

**Properties**
- pH-value: ~4.6
- Viscosity (Brookfield, RVT, Sp.03, 20rpm) @23°C: <400 mPa.s
- Visual: clear liquid

**Stability**
- Stable over 3 months at 23°C, 40°C and 4°C.

**Characteristics**
- CosVivet APG CCG50 belongs to Brenntag’s own range of newly launched mild and natural saccharoidal surfactants
- Liquid formulation which forms a fine and dense foam
- Rosehip oil is rich in vitamins especially vitamin B2 (antioxidant) and Provitamin A (moisturizing)
- PURAC® HiPure 90 UP is not only ideal for pH adjusting, it is an active ingredient which moisturizes the skin and stimulates cell renewal

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## Premium Beard Balm

### PHASE A

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Castor Organic Oil</td>
<td>Ricinus Communis Seed Oil</td>
<td>69.80</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td>CosVivet Beeswax yellow</td>
<td>Cera Alba</td>
<td>8.00</td>
<td>Brenntag</td>
</tr>
<tr>
<td>Macadamia Organic CP Oil</td>
<td>Macadamia Integifolia Seed Oil</td>
<td>3.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td>Sunflower High Oleic organic RDW Oil</td>
<td>Helianthus Annuus (Sunflower) Seed Oil</td>
<td>15.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td>Berry Wax</td>
<td>Rhus Verniciflua Peel Cera</td>
<td>3.00</td>
<td>On request</td>
</tr>
</tbody>
</table>

### PHASE B

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosemary Antioxidant</td>
<td>Brassica Campestris (Rapeseed) Seed Oil (and) Rosmarinus Officinalis (Rosemary) Leaf Extract</td>
<td>0.50</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td>Tocopherol</td>
<td>Tocopherol</td>
<td>0.20</td>
<td>On request</td>
</tr>
<tr>
<td>NOURISH FROM HAIR TO TOE M_0064855</td>
<td>Parfum (Fragrance)</td>
<td>0.50</td>
<td>MANE*</td>
</tr>
</tbody>
</table>

*Available from Brenntag

### Procedure
1. Melt the ingredients listed under phase A while stirring at 70°C until a homogeneous mixture is obtained.
2. Add components listed under phase B and stir until homogeneous.
3. Finally pour the melted mixture into the packaging and let it cool down.

### Properties
/ Visual: yellow wax

### Stability
/ Stable over 3 months at 23°C, 40°C and 4°C.

### Characteristics
/ This beard balm formulation is based on natural ingredients and includes Brenntag’s own brand of CosVivet waxes
/ Rosemary Antioxidant protects the vegetable oils in the formulation from oxidation
/ MANE’s COSMOS-approved fragrance gives the formulation a trendy and pleasant scent

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### Ultimate Hair Repair Elixir

<table>
<thead>
<tr>
<th>PHASE</th>
<th>TRADE NAME</th>
<th>INCI</th>
<th>%W/W</th>
<th>SUPPLIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>MIRASIL® DM 5</td>
<td>Dimethicone</td>
<td>23.00</td>
<td>Elkem*</td>
</tr>
<tr>
<td></td>
<td>MIRASIL® D-DML LV</td>
<td>Dimethicone (and) Dimethiconol</td>
<td>57.00</td>
<td>Elkem*</td>
</tr>
<tr>
<td></td>
<td>MIRASIL® CAPRYLYL TSO</td>
<td>Caprylyl Methicone</td>
<td>17.00</td>
<td>Elkem*</td>
</tr>
<tr>
<td></td>
<td>Keep calm&amp;Love your color M_0064864</td>
<td>Parfum (Fragrance)</td>
<td>0.50</td>
<td>MANE*</td>
</tr>
<tr>
<td></td>
<td>Sunflower High Oleic Organic RDW Oil</td>
<td>Helianthus Annuus Seed Oil</td>
<td>0.50</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>Argan Organic CP Oil</td>
<td>Argania Spinosa Kernel (Argan) Oil</td>
<td>1.00</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>Macadamia Organic CP Oil</td>
<td>Macadamia Ternifolia Seed Oil</td>
<td>0.30</td>
<td>Kerfoot*</td>
</tr>
<tr>
<td></td>
<td>Tocopheryl Acetate</td>
<td>Tocopheryl Acetate</td>
<td>0.70</td>
<td>On request</td>
</tr>
</tbody>
</table>

*Available from Brenntag

**Procedure**
1. Add one Ingredient after the other and mix until fully dispersed.

**Properties**
/ Visual: clear solution
/ Viscosity (Brookfield, RVT, Sp.TC, 4rpm) @23°C: 450 mPa.s

**Stability**
/ Stable over 3 months at 23°C, 40°C and 4°C.

**Characteristics**
/ The hair oil is produced by pure mixing of oils without heating - a low energy production process
/ MIRASIL® DM 5 used for dry combing, shine and anti-frizz
/ MIRASIL® CAPRYLYL TSO is an emollient and provides a silky after feel
/ MIRASIL® D-DML LV confers antistatic and gloss effects to hair and leaves the hair with a soft, silky feel
/ Kerfoot Oils moisturise and soften the hair
/ Apply a few drops of the elixir to hands and gently massage into dry hair-ends
Repair and Care Shampoo with Apple Water

### PHASE A
- **Aqua (Water)**
- **Malus Domestica Fruit Water** 10.00
- **Sodium Isostearoyl Lactylate** 3.00
- **Decyl Glucoside** 19.25
- **Sodium Lauroyl Lactylate** 14.88
- **Coco-Glucoside** 5.00
- **Glycerin** 3.00
- **Potassium Sorbate** 0.20
- **Sodium Benzoate** 0.50
- **Parfum (Fragrance)** 0.50

### PHASE B
- **Corbion**
- **Brenntag**
- **On request**
- **Corbion**
- **Brenntag**
- **Brenntag**
- **Brenntag**
- **Brenntag**
- **Brenntag**

### PHASE C
- **Corbion**

### PHASE D
- **Brenntag**
- **Corbion**

**Procedure**
1. Dissolve ESTERLAC® Care+ in water.
2. Once dispersed, adjust the pH value above 7.0 until the solution becomes clear.
3. Add the ingredients of phase B to phase A step by step.
4. Mix with propeller until dissolved and uniform.
5. Add the ingredients of phase C step by step in the given order to AB.
6. Adjust the pH value with the ingredients of phase D.

**Properties**
- Appearance: white gel
- pH-value: ~ 5.0
- Viscosity (Brookfield, RVT, Sp.TC, 4rpm) @23°C: 32000 mPa.s

**Stability**
- Stability tests over 3 months at 23°C, 40°C and 4°C are ongoing.

**Characteristics**
- The CosVivet APG range is Brenntag’s own brand of mild and natural surfactants
- The shampoo formulation is free of PEG’s and sulfates
- ESTERLAC® Balance+ NG is a COSMOS approved mild and natural emulsifier
- ESTERLAC® Care+ is a natural conditioning and moisturizing agent for smooth and soft hair
- Fruit Derived Water Apple is 100% sustainable, NATRUE and COSMOS approved as well as VEGAN
- MANE’s COSMOS approved fragrance gives the formulation a trendy, floral and green scent
AN OVERVIEW OF OUR SERVICES

FORMULATION DEVELOPMENT
Support for innovative new developments of rinse-off and leave-on products for skin and hair applications

FORMULATION ADJUSTMENT
Optimization of formulations with relation to:
- sensorial effect
- pricing
- stability improvement
- optimization of the flow behavior
- specific ingredient claims

SENSORY ASSESSMENT OF FORMULATIONS
Sensory profile assessment based on an expert panel

VISCOITY MEASUREMENTS
We can measure viscosities over a wide viscosity range (15 mPa.s to 2,000,000 mPa.s) for you with the aid of our Brookfield rotational viscometer.

MEASUREMENT OF RHEOLOGICAL PROPERTIES BY MEANS OF A CONE PLATE RHEOMETER
For application-related viscosity measurements at different shear rates, we have a cone-plate rheometer from Anton Paar with different measuring systems (plate-plate, coneplate) by means of which we can determine:
- viscosity (at different temperatures)
- flow curves (at different temperatures)
- yield points
- thixotropy
- flow properties in defined shear rates

VISCROELASTICITY VIA OSCILLATION RHEOLOGICAL MEASUREMENTS
Oscillatory measurements are helpful in determining the stability of formulations. We can measure the following parameters for you:
- amplitude sweep
- frequency sweep
- single frequency test

DETERMINATION OF PHYSICOCHEMICAL PARAMETERS
We can determine the following parameters:
- dynamic viscosity (Brookfield viscometer RV-DV2T)
- water content (500 ppm - 100 %), Karl Fischer titrator by Mettler Toledo
- density
- pH-value
- refractive index
- conductivity

MICROSCOPY
Our Leica DM3000 transmitted light microscope can capture the enlargements: 100x / 200x / 400x / 1000x. We offer:
- easy application of imaging transmitted light microscopy of emulsions
- easy application of imaging transmitted light microscopy of emulsions with particle size distribution and result documentation
- complex application of imaging transmitted light microscopy of emulsions (partly by means of polarized light) with particle size distribution, interpretation and result documentation

STABILITY TESTS
All formulations are tested for stability as follows:
- storage stability (-18°C, +4°C, +23°C, +40°C and +50°C) for 3, 6 and 12 months
- freeze/thaw cycle test (formulations are "stressed" at constantly changing temperatures at -18°C, +23°C and +50°C)
- rapid test (centrifugation of 50 ml cuvettes up to 6,000 rpm)

Contact:
cosmeticsdach@brenntag.de
Contact us

DACH REGION

Brenntag GmbH
Messeallee 11
45131 Essen, Germany
cosmeticsdach@brenntag.de

www.brenntag.com