Simon & Werner located in Flörsheim am Main is a chemical distribution company focusing on specialty chemicals. Founded in the year 1945 the company started with the formulation and filling of textile dyes. Over the years Simon & Werner became one of the leading distributors of colorants for a diversity of applications in the German speaking countries.

Thanks to this competence Simon & Werner managed to exploit many more applications in numerous industries. One of our todays key markets is the Personal Care industry. As a result of a consequent active portfolio management today we are able to offer our customers a comprehensive range of products for many different formulation concepts.

Since 2008, SIMON & WERNER is a subsidiary of TER HELL & CO. GMBH and hence a member of the international TER GROUP, which is headquartered in Hamburg Germany.

**Our Portfolio**

- Raw Materials for Natural Cosmetics
- Active Ingredients
- Base and Co-surfactants
- Biopolymers
- Butters
- Colorants
- Conditioning Agents
- Effect Pigments
- Emollients
- Emulsifiers
- Encapsulation Systems
- Exfoliants
- Extracts
- Natural & Essential Oils
- Natural Waxes
- Preservatives & Preservative Boosters
- Polyethylene Glycols
- Rheology Modifiers & Texturizers
- UV-Filters

**Technical Service**

Since early 2013 Simon & Werner operates an own newly build Cosmetic Application Laboratory that ...

- supports our customers with individual formulation examples
- helps our customers to overcome individual formulation problems
- provides extended access and flexibility in formulation development and modification
- develops own guide recipes

**Our Partners**
LIPOSINE GLYGLU/R is a NATRUE certified, mild and high foaming surfactant based on Lipo-Amino Acid from vegetable origin.

**LIPOSINE GLYGLU/R** can be used as the primary surfactant for ultra mild cleansing products or as co-surfactant to improve the physiological properties of synthetic surfactant based formulations.

**INCI:** Aqua (and) Sodium Cocoyl Glutamate (and) Potassium Cocoyl Rice Amino Acid

**SOFTISIL C5-15** is an extraordinary hydrosoluble lipo amino acid base emulsion derived from coconut fatty acids and amino acids typical of rice proteins, with a silicone substitutive lipid and glyceryl olate.

It’s ideal in cosmetic treatments of hair and skin care products. Its film leaves a light and silky touch, with a good combability. Hydrosoluble version of this lipid allows to formulate transparent surfactant systems.

**INCI:** Aqua (and) Glycerin (and) Coco Caprylate (and) Potassium Cocoyl Rice Aminoacid (and) Glyceryl Oleate

**LIPOSINE CRYSTAL** is a highly effective solubilizing agent of vegetable origin.

**LIPOSINE CRYSTAL** allows an easy solubilization of perfumes and essential oils in water in ratio between 1:2-1:5. It has better performances in comparison to common solubilizers. Furthermore solutions with **LIPOSINE CRYSTAL** have a very good transparency.

**INCI:** Aqua (and) Glycerol (and) Coco Caprylate (and) Potassium Cocoyl Rice Amino Acid (and) Glyceryl Oleate

**Sapindus Mukorossi Extract** also known as Soap Nut has been used for centuries to make soap and shampoos. In mild cleansing formulations it supports the foaming properties. The anti-bacterial, anti-fungal and anti-inflammatory properties makes it an interesting raw material for e.g. anti-dandruff formulations.

**INCI:** Sapindus mukorossi fruit extract
GUIDE RECIPE
Natural Shower Gel (SV/1000)

Claim
• This formulation produces a clear, natural shower gel
• This mild gel is free of SLES, and has excellent foaming properties

### Phase 4 | Ingredient | INCI | % w/w | Function
--- | --- | --- | --- | ---
**A** | Deionized water | Aqua | Ad 100 |  
| Sodium Benzoate (Ter Hell) | Sodium Benzoate | 0.50 | Preservative |
| Potassium Sorbate (Ter Hell) | Potassium Sorbate | 0.10 | Preservative |
| Sulfopon 1216 G (BASF) | Sodium Coco-Sulfate | 8.00 | Surfactant |
**B** | Lamesoft PO 65 (BASF) | Coco-Glucoside (and) Glyceryl Oleate | 2.00 | Surfactant |
| Plantacare 818 UP (BASF) | Coco-Glucoside | 4.00 | Surfactant |
**C** | Fragrance | Parfum | Qs | Perfume |
**D** | Citric Acid (Ter Hell) | Citric Acid | 0.80 | pH Adjuster |
**E** | Sodium Chloride | Sodium Chloride | Qs | Viscosity controlling |

Procedure:
I. Dissolve Phase A at 40°C.
II. Add Phase B to I and mix until you have a clear solution.
III. Add Phase C to II and mix until you have a clear solution.
IV. Set pH value with Phase D.
V. Set viscosity with Phase E.
GUIDE RECIPE
Natural Shampoo (HI/1001)

Claim
• This formulation produces a clear, natural shampoo
• This shampoo is designed for sensitive skin and provides smooth conditioning

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>% w/w</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Deionized water</td>
<td>Aqua</td>
<td>Ad 100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sodium Benzoate (Ter Hell)</td>
<td>Sodium Benzoate</td>
<td>0.50</td>
<td>Preservative</td>
</tr>
<tr>
<td></td>
<td>Potassium Sorbate (Ter Hell)</td>
<td>Potassium Sorbate</td>
<td>0.10</td>
<td>Preservative</td>
</tr>
<tr>
<td></td>
<td>Sulfopon 1216 G (BASF)</td>
<td>Sodium Coco-Sulfate</td>
<td>8.00</td>
<td>Surfactant</td>
</tr>
<tr>
<td>B</td>
<td>Lamesoft PO 65 (BASF)</td>
<td>Coco-Glucoside (and) Glyceryl Oleate</td>
<td>2.00</td>
<td>Surfactant</td>
</tr>
<tr>
<td></td>
<td>Softisil C5-15 (Maycos)</td>
<td>Aqua, Glycerin, Coco-Caprylate, Potassium Cocoyl Rice Amino Acids, Glyceryl Oleate</td>
<td>1.00</td>
<td>Conditioning Agent</td>
</tr>
<tr>
<td></td>
<td>Liposine GLYGLY/R (Maycos)</td>
<td>Aqua, Sodium Cocoyl Glutamate, Potassium Cocoyl Rice Amino Acids</td>
<td>10.00</td>
<td>Surfactant</td>
</tr>
<tr>
<td></td>
<td>Jojoba Pro HP (Lipo Chemicals)</td>
<td>Hydrolyzed Jojoba Protein</td>
<td>1.00</td>
<td>Active</td>
</tr>
<tr>
<td>C</td>
<td>Fragrance</td>
<td>Parfum</td>
<td>Qs</td>
<td>Perfume</td>
</tr>
<tr>
<td>D</td>
<td>Citric Acid (Ter Hell)</td>
<td>Citric Acid</td>
<td>Qs</td>
<td>pH Adjuster</td>
</tr>
<tr>
<td>E</td>
<td>Sodium Chloride</td>
<td>Sodium Chloride</td>
<td>Qs</td>
<td>Viscosity controlling</td>
</tr>
</tbody>
</table>

Procedure:
I. Dissolve Phase A at 40°C.
II. Add Phase B to I and mix until you have a clear solution.
III. Add Phase C to II and mix until you have a clear solution.
IV. Set pH value with Phase D.
V. Set viscosity with Phase E.
ECOFOAM - Extremely mild and totally green surfactants -

ECOFOAM offers exceptional surfactant blends with a balanced combination of foam volume and dermatological properties in cleansing products. Therefore, they are suitable for use as a base surfactant or a co-surfactant in cosmetic cleansing preparations. All ECOFOAM products are entirely derived from renewable raw materials. Furthermore, the combination of excellent cleansing with proven mildness allows the formulation of a variety of products, such as body wash, liquid soap, facial wash and shampoos.

ECOFOAM surfactants show a lower irritation potential in comparison to other surfactants, confirming the excellent suitability of ECOFOAM surfactants for ensuring mildness in body washes. Low concentration of ECOFOAM in conventional used cleansing formulations reduces the irritancy level.

<table>
<thead>
<tr>
<th>INCI</th>
<th>ECOFOAM G/B</th>
<th>ECOFOAM G</th>
<th>ECOFOAM SMC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless to light yellow clear liquid</td>
<td>Light white to amber paste</td>
<td>Light white to amber paste</td>
</tr>
<tr>
<td>pH Value (10% in Water)</td>
<td>5.5 – 7.5</td>
<td>5.5 – 7.5</td>
<td>5.5 – 7.5</td>
</tr>
<tr>
<td>Viscosity (mPas)</td>
<td>50 – 200</td>
<td>30.000 – 40.000</td>
<td>20.000 – 30.000</td>
</tr>
<tr>
<td>Active Substance (%)</td>
<td>30 – 35</td>
<td>50 – 55</td>
<td>50 – 60</td>
</tr>
<tr>
<td>PEG free / Sulfate free</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>
Aristoflex® range of rheology modifiers offers you exceptional thickening properties and unique sensorics.

- Easy to incorporate
- Multi-functional
- Pre-neutralized
- Stable across a wide pH range

<table>
<thead>
<tr>
<th>Polymer Name</th>
<th>INCI</th>
<th>Properties &amp; Applications</th>
</tr>
</thead>
</table>
| Aristoflex® AVC   | Ammonium Acryloyldime-thyltaurate / VP Copolymer                    | - Rheology modifier and stabilizer for O/W and W/O emulsions and emulsifier-free formulations.  
                                                                              - Creates light, fast breaking formulations                                           |
| Aristoflex® AVS   | Sodium Acryloyldimethyltaurate / VP Copolymer                       | - Ideal for stabilizing self-tanning and skin-whitening formulations.                      
                                                                              - Broad compatibility over a wide pH range                                           |
| Aristoflex® AVL   | Caprylic / Capric Triglyceride (and) Ammonium Acryloyldimethyltaurate / VP Copolymer (and) Trilaureth-4 Phosphate (and) Polyglyceryl-2-Sesquisostearate | - Rheology modifier and stabilizer for O/W and W/O emulsions and emulsifier-free formulations.  
                                                                              - Creates light, fast breaking formulations                                           |
| Aristoflex® BLV   | Ammonium Acryloyldimethyltaurate / Beheneth-25 Methacrylate Crosspolymer | - Polymeric emulsifier allows for continuous viscosity increase at low concentrations   
                                                                              - Suitable for thin lotions                                                          
                                                                              - Exhibits synergistic thickening effect with Aristoflex® AVC and HMB                |
| Aristoflex® HMB   | Ammonium Acryloyldimethyltaurate / Beheneth-25 Methacrylate Crosspolymer | - Hydophobically modified polymer used as a rheology modifier and/or polymeric emulsifier in formulations with high oil content 
                                                                              - Delivers unique silky skin-feel while reducing tackiness                             |
| Aristoflex® TAC   | Ammonium Acryloyldimethyltaurate / Carboxethyl Acrylate Crosspolymer | - Provides a yield force in surfactant based formulations with the ability to stabilize effect particles. |
| Aristoflex® Velvet| Polyacrylate Crosspolymer-11                                       | - Effective at low use concentrations and exhibits improved salt tolerance in formulations  
                                                                              - Adds a caring and luxurious skin feel to formulations                               
                                                                              - Highly compatible with organic solvents                                            |
Wax Dispersions

Koster Milks are easy to use wax dispersions. They improve protective and sensorial properties of skin care formulations. They provide an innovative, easy and economic solution to formulate natural waxes. Their cold processability reduces process and energy costs and allows a significantly lower emulsifier dosage.

- Extraordinary film forming abilities
- Improves protective and sensorial properties of sun, hair and skin care formulations
- Improved distribution of ingredients, boosts SPF and overall product performance
- Possibility to combine different milks in a single formulation

Koster Milks are available in three different versions with a wax content of 40%.

- **Koster Milk 102 (Beeswax)**
  INCI: Aqua (and) Beeswax (and) Glycerin (and) Trideceth-6 Phosphate (and) Sodium Hydroxide (and) Phenoxyethanol

- **Koster Milk 202 (Sunflower Wax)**
  INCI: Aqua (and) Helianthus Annuus Seed Wax (and) Glycerin (and) Trideceth-6 Phosphate (and) Sodium Hydroxide (and) Phenoxyethanol

- **Koster Milk 302 (Carnauba Wax)**
  INCI: Aqua (and) Copernicia Cerifera Wax (and) Glycerin (and) Trideceth-6 Phosphate (and) Sodium Hydroxide (and) Phenoxyethanol
GUIDE RECIPE
Caring In-Shower Lotion (SVII/1000)

Claim

- Easy to use in the shower, no additional creaming necessary
- Smooth and pleasant skin feeling

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>% w/w</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Deionized water</td>
<td>Aqua</td>
<td>Ad 100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Glycerin 99%</td>
<td>Glycerin</td>
<td>5.00</td>
<td>Humectant</td>
</tr>
<tr>
<td>B</td>
<td>Aristoflex HMB (Clariant)</td>
<td>Ammonium Acryloyldimethyltaurate/ Beheneth-25 Methacrylate Crosspolymer</td>
<td>0.30</td>
<td>Rheology Modifier</td>
</tr>
<tr>
<td>C</td>
<td>Hostacerin® SFO (Clariant)</td>
<td>Sunflower Seed Oil Sorbitol Ester</td>
<td>1.00</td>
<td>Emulsifier</td>
</tr>
<tr>
<td></td>
<td>Lanette® O (BASF)</td>
<td>Cetearyl Alcohol</td>
<td>2.00</td>
<td>Stabilizer</td>
</tr>
<tr>
<td></td>
<td>Organic FFL Avocado Oil Crude (Earthoil)</td>
<td>Persea Gratissima Oil</td>
<td>6.00</td>
<td>Oil</td>
</tr>
<tr>
<td></td>
<td>Organic Cherry Seed Oil Crude (Earthoil)</td>
<td>Prunus avium (Cherry) Seed Oil</td>
<td>4.00</td>
<td>Oil</td>
</tr>
<tr>
<td></td>
<td>Sonnenatural H-203 (Sonneborn)</td>
<td>Glyceride Oil</td>
<td>10.00</td>
<td>Oil</td>
</tr>
<tr>
<td></td>
<td>Lipobutter Refined Shea (Lipo Chemicals)</td>
<td>Butyropermum Parkii (Shea Butter)</td>
<td>6.00</td>
<td>Butter</td>
</tr>
<tr>
<td>D</td>
<td>Kostermilk 102 (Koster Keunen)</td>
<td>Aqua (and) Beeswax (and) Glycerin (and) Trideceth-6 Phosphate (and) Sodium Hydroxide (and) Phenoxyethanol</td>
<td>2.00</td>
<td>Active</td>
</tr>
<tr>
<td></td>
<td>Phenonip™ ME (Clariant)</td>
<td>Phenoxyethanol (and) Methylparaben (and) Ethylparaben</td>
<td>0.60</td>
<td>Preservative</td>
</tr>
<tr>
<td></td>
<td>Bonding 231281 (Fragrance Resources)</td>
<td>Parfum</td>
<td>1.00</td>
<td>Perfume</td>
</tr>
</tbody>
</table>

Procedure:

I. Mix the components of phase A and heat to 70°C.
II. Mix the components of phase C and heat to 70°C.
III. Add phase B to II. and homogenize slowly.
IV. Add I. to III. until homogeneous lotion is obtained.
V. Add components of D at 30°C under stirring.
NATURAL EXFOLIANTS
Jojoba Derivatives

Jojoba Exfoliants portfolio comprises of different Jojoba derivatives offering exfoliation properties for a diversity of cosmetic product types. They are also a natural alternative to replace polyethylene beads helping to reduce contamination of the environment with plastic micron-particles.

Lipo Jojoba Exfoliants portfolio features:

- Softens and smooths the surface of the skin while moisturizing
- Works in harmony with your skin to help accelerate skin’s natural renewal process
- Designed to purify and renew skin’s texture: for refreshed, smooth, vibrant skin
- Refines and polishes
- Gentle enough to use daily

**JOJOBA SPHERES™**

_INCI:_ Hydrogenated Jojoba Oil

Primier mechanical exfoliant derived from fully hydrogenated jojoba wax in a perfectly spherical shape

**Melting point:** 68 – 72°C

**Standard Size Distribution**

<table>
<thead>
<tr>
<th>Size</th>
<th>Mesh</th>
<th>Microns</th>
</tr>
</thead>
<tbody>
<tr>
<td>20/40 Mesh</td>
<td>40/60 Mesh</td>
<td>60/100* Mesh</td>
</tr>
<tr>
<td>(850 – 425 microns)</td>
<td>(425 - 250 microns)</td>
<td>(250 – 150 microns)</td>
</tr>
</tbody>
</table>

**Available Colors**

- Jet Black
- Lagoon Green
- Ice White
- Electric Blue
- Rocket Red
- Outrageous Orange

**JOJOBA SCRUBEADS™**

_INCI:_ Hydrogenated Castor Oil (and) Hydrogenated Jojoba Oil

A natural and affordable alternative to replace polyethylene beads. They are ideal for formulations that require high mixing temperatures as their melting point is 82 – 90°C.

**Standard Size Distribution**

<table>
<thead>
<tr>
<th>Size</th>
<th>Mesh</th>
<th>Microns</th>
</tr>
</thead>
<tbody>
<tr>
<td>20/40 Mesh</td>
<td>40/60 Mesh</td>
<td>60/100* Mesh</td>
</tr>
<tr>
<td>(850 – 425 microns)</td>
<td>(425 - 250 microns)</td>
<td>(250 – 150 microns)</td>
</tr>
</tbody>
</table>

**Available Colors**

- Jet Black
- Ice White
- Electric Blue
- Rocket Red
- Electric Blue
- Rocket Red
GUIDE RECIPE
Polyethylene-free Shower Scrub (SV/1002)

Claim
• Eco-friendly shower scrub without polyethylene beads
• JOJOBA SCRUBEADS™ are an biodegradable alternative

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>% w/w</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Deionized water</td>
<td>Aqua</td>
<td>Ad 100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>XGF FNCSP-PC (Jungbunzlauer)</td>
<td>Xanthan Gum</td>
<td>0.50</td>
<td>Rheology Modifier</td>
</tr>
<tr>
<td>B</td>
<td>Genapol® LRO liquid (Clariant)</td>
<td>Sodium Laureth Sulfate</td>
<td>30.00</td>
<td>Surfactant</td>
</tr>
<tr>
<td></td>
<td>Hostapon® KCG (Clariant)</td>
<td>Sodium Cocooyl Glutamate</td>
<td>5.00</td>
<td>Surfactant</td>
</tr>
<tr>
<td></td>
<td>Genagen® CAB 818 (Clariant)</td>
<td>Cocamidopropyl Betaine</td>
<td>6.00</td>
<td>Surfactant</td>
</tr>
<tr>
<td></td>
<td>You Huang Zi (Green Mountain Biotech Ltd.)</td>
<td>Sapindus Mukorossi Extract</td>
<td>1.00</td>
<td>Active</td>
</tr>
<tr>
<td>C</td>
<td>Aristoflex® TAC (Clariant)</td>
<td>Ammonium Acryloyldimethyltaurate/Carboxyethyl Acrylate Crosspolymer</td>
<td>2.50</td>
<td>Rheology Modifier</td>
</tr>
<tr>
<td>D</td>
<td>Nipaguard™ DMDMH (Clariant)</td>
<td>DMDM Hydantoin</td>
<td>0.40</td>
<td>Preservative</td>
</tr>
<tr>
<td></td>
<td>Conqueror 672244 (Fragrance Resources)</td>
<td>Parfum</td>
<td>Qs</td>
<td>Perfume</td>
</tr>
<tr>
<td>E</td>
<td>JOJOBA SCRUBEADS™ (Lipo Chemicals)</td>
<td>Hydrogenated Castor Oil (and) Hydrogenated Jojoba Oil</td>
<td>0.75</td>
<td>Exfoliant</td>
</tr>
<tr>
<td>F</td>
<td>Citric Acid 10% (Ter Hell)</td>
<td>Citric Acid</td>
<td>Qs</td>
<td>pH Adjuster</td>
</tr>
</tbody>
</table>

Procedure:
I. Dissolve Phase A at room temperature.
II. Add Phase B to I and mix until you have a clear solution.
III. Add Phase C to II slowly while stirring until a homogenous solution has been obtained.
IV. Add Phase D & E to III and mix until you have a homogenous solution.
V. Set pH value with Phase F.
**CARE INGREDIENTS**

**Lipovol® Crambe** - a multifunctional ingredient for hair & skin care formulations -

Crambe is not well known, but is an incredibly useful annual plant, originating in the Mediterranean region. **Lipovol® Crambe** is a unique, natural emollient. It is a renewable raw material that can be easily grown and is environmentally friendly. Tocopherols are added to the **Lipovol® Crambe** to improve oxidative stability.

This natural ingredient can be easily emulsified into creams and lotions to provide excellent skin feel and moisturisation. It also imparts shine and leaves a non-greasy after-feel. **Lipovol® Crambe** is traditionally used as a slip agent. **Lipovol® Crambe** also adds softness to hair. For colour cosmetics, it improves pigment dispersion.

**KEY BENEFITS**

- Rapid Skin Penetration
- Moisturising
- Unique Triglyceride
- Lubricious Skin Feel
- Oxidative Stability Enhanced with Tocopherols

**APPLICATIONS**

- Skin Care
- Hair Care
- Body Cleansers
- Lip Products
- Baby Care

**Lipovol® Crambe**

**INCI:** Crambe Abyssinica Seed Oil

**Appearance:** Clear to slightly yellow

**Odour:** Nearly odorless

**Source:** Crambe Abyssinica Seed
MORINGA OIL - ingredient for hair & skin care formulations -

Moringa in its raw form and as an oil, is a rich source of vitamins, minerals and antioxidants. With a mild odour profile and a natural solvent capacity it has a good ability to carry other fragrances - and explains its historical use as a base for which aromatic plants were steeped.

Moringa has very good emollient properties and contains a potent antioxidant in the non-glyceride fraction - considered to be the major factor towards its good stability. It also has nourishing and moisturising properties making it ideal for use in skin and hair care products.

KEY BENEFITS
• Rich source of vitamins, minerals, antioxidants
• Very good emollient properties
• Moisturizing & nourishing properties

APPLICATIONS
• Skin Care
• Hair Care
• Baby Care

MORINGA OIL

INCI: Moringa Oleifera
Appearance: Pale yellow / clear
Odour: Mild characteristic nutty flavour
Source: Moringa kernels

About Earthoil

Expertise in all areas of the certified organic oil supply chain
Quality & traceable organic essential and pressed seed oils sourced directly from Earthoil's own grower projects or from its extensive grower network
Support growers in all areas of organic farming – from agronomy advice to certification
Earthoil is the personal care and cosmetic ingredients division of Treatt, specialising in pure, organic, fair trade and natural essential and vegetable seed oils.
Earthoil works closely with certifiers, processors and growers to ensure its products meet the most exacting quality standards.
Operations, overseen by its UK head office, including a manufacturing facility and production base in Kenya and grower projects in Africa, Earthoil manufactures and supplies its organic and fair trade certified products worldwide.
The portfolio captures a wide range of vegetable and essential oils as well as Treattarome® flavour ingredients.
If you are looking for any specific product or interested in further details about Earthoil and their organic and fair trade projects please contact us.
GUIDE RECIPE
Moisturizing Body-Lotion (SII/1000)

**Claim**
- Moisturizing Body-Lotion with Portulaca Oleracea Extract and organic oils
- Luxurious cream that immediately leaves a rich, not fatty skin feel

<table>
<thead>
<tr>
<th>Phase</th>
<th>Ingredient</th>
<th>INCI</th>
<th>% w/w</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Hostacerin® DGI (Clariant)</td>
<td>Polyglyceryl-2 Sesquisostearate</td>
<td>2.00</td>
<td>Emulsifier/ Stabilizer</td>
</tr>
<tr>
<td></td>
<td>Tegosoft OS</td>
<td>Ethylhexyl Stearate</td>
<td>5.00</td>
<td>Emollient</td>
</tr>
<tr>
<td></td>
<td>Organic Almond Sweet Oil Crude (Earthoil)</td>
<td>Prunus Dulcis (Sweet Almond Oil)</td>
<td>8.00</td>
<td>Oil</td>
</tr>
<tr>
<td></td>
<td>Organic FFL Avocado Oil Crude (Earthoil)</td>
<td>Persea Gratissima Oil</td>
<td>5.00</td>
<td>Oil</td>
</tr>
<tr>
<td>B</td>
<td>Aristoflex® Velvet (Clariant)</td>
<td>Polyacrylate Crosspolymer-11</td>
<td>1.20</td>
<td>Rheology Modifier</td>
</tr>
<tr>
<td>C</td>
<td>Hostapon® CGN (Clariant)</td>
<td>Sodium Cocoyl Glutamate</td>
<td>1.00</td>
<td>Co-Emulsifier</td>
</tr>
<tr>
<td></td>
<td>Glycerin 99%</td>
<td>Glycerin</td>
<td>3.00</td>
<td>Humectant</td>
</tr>
<tr>
<td></td>
<td>Deionized water</td>
<td>Aqua</td>
<td>Ad 100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ma Chi Xian (MCX) (Green Mountain Biotech)</td>
<td>Portulaca Oleracea Extract</td>
<td>1.00</td>
<td>Active</td>
</tr>
<tr>
<td></td>
<td>D-Panthenol 75 W (BASF)</td>
<td>Panthenol</td>
<td>1.00</td>
<td>Active</td>
</tr>
<tr>
<td></td>
<td>Phenonip™ ME (Clariant)</td>
<td>Phenoxyethanol (and) Methylparaben (and) Ethylparaben</td>
<td>Qs</td>
<td>Preservative</td>
</tr>
<tr>
<td>D</td>
<td>Kostermilk 202 (Koster Keunen)</td>
<td>Water (aqua), Helianthus Annuus Seed Wax, Glycerin, Trideceth-6 Phosphat, Sodium Hydroxid (50%), Phenoxyethanol</td>
<td>3.00</td>
<td>Moisturizer</td>
</tr>
<tr>
<td></td>
<td>KemSpheres CER (OTC/ Clariant)</td>
<td>Aqua (and) C12-15 Alkyl Benzoxate (and) Ceramide-3 (and) Cetyl Palmitate (and) Glycerin (and) Laureth-23 (and) Trideceth-6 Phosphate (and) Triethanolamine</td>
<td>2.00</td>
<td>Active</td>
</tr>
<tr>
<td></td>
<td>Fragrance</td>
<td>Parfum</td>
<td>Qs</td>
<td>Perfume</td>
</tr>
</tbody>
</table>

**Procedure:**
I. Mix the components of phase A.
II. Incorporate phase B into I.
III. Add phase C to II. and homogenize.
IV. Incorporate Phase D.
Nipaguard® Zero Blends

**ADVANTAGES**
- Reliable and effective paraben-alternative
- Comparable costs and effectiveness as parabens
- Effective at low concentrations
- Based on **Velsan® SC** - a 100% renewable synergistic booster

**APPLICATIONS**
- Rinse-off
- Leave-on
- Wet Wipes

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**Product** | **INCI** | **Form** | **Lea- on** | **Rinse-off** | **Wet Wipes** | **pH-range** | **Max. Temp.** | **Rec. use level (%)** | **G-** | **G+** | **Y** | **M**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Nipaguard® SCE (Ecocert approved) | Sorbitan Caprylate (and) Propanediol (and) Benzoic Acid | Liquid | ✓ | ✓ | ✓ | 4.0 - 8.0 | < 80°C | 0.5 – 1.5 | ++ | ++ | + | +

Nipaguard® SCP | Phenoxethanol (and) Sorbitan Caprylate | Liquid | ✓ | ✓ | ✓ | 4.5 - 8.5 | < 80°C | 0.5 – 1.0 | ++ | ++ | + | +

Nipaguard® SCV | Sorbitan Caprylate (and) Phenoxethanol (and) Benzyl Alcohol (and) Benzoic Acid | Liquid | ✓ | ✓ | ✓ | 4.0 - 8.0 | < 40°C | 0.5 – 1.0 | ++ | ++ | + | +

**G-**: Gram- Bacteria / **G+**: Gram+ Bacteria / **Y**: Yeast / **M**: Mold
**++**: good / **+**: medium / **0**: none
This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.