Name | ULTRA HYDRATION NIGHT CREAM
---|---
No. | 1306
Description | Especially suitable for dry skin, this ultra-hydrating night cream combines seven natural moisturizers for substantial hydration. Also contains allantoin, a natural anti-irritant that moisturizes skin and helps to minimize the appearance of aging.
Formulation | INGREDIENTS: % by Weight Functionality

== Phase 1 ==
Deionized Water | q.s. 100.00 Diluent
Natrosol™ 250 HHR (Ashland, Inc.) Hydroxyethylcellulose | 0.10 Rheology Modifier
Propylene Glycol | 2.00 Humectant
Versene™ 100 (The Dow Chemical Company) Tetrasodium EDTA | 0.20 Chelating Agent

== Phase 2 ==
WECOBEE® S | 1.25 Occlusive Agent
Polawax (Croda International Plc) Emulsifying Wax, NF | 2.00 Emulsifier
NEOBEE® M-5 COSMETIC | 6.00 Occlusive Agent
Stearic Acid | 5.00 Emulsifier
HALLSTAR® PGMS PURE (Hallstar) | 1.25 Emulsifier
Liposorb® S (Vantage Specialty Ingredients) Sorbitan Stearate | 0.75 Emulsifier
Sunflower Oil - Helianthus Annuus (Sunflower) Seed Oil | 4.00 Emollient
Jojoba Oil - Simmondsia Chinensis (Jojoba) Seed Oil | 1.00 Emollient
STEPAN-MILD® L3 | 0.80 Emollient
Allantoin (DSM) Allantoin | 0.15 Moisturizing Agent
Rosehip Seed Oil - Rosa Moschata Seed Oil | 0.15 Emollient
Sacha Inchi Oil - Plukenetia Volubilis Seed Oil | 0.15 Emollient

== Phase 3 ==
Citric Acid | q.s. pH Adjuster
Sodium Hydroxide | q.s. pH Adjuster
Fragrance Dream Angel # 59292 (Chemia Fragrance & Flavor) | 0.50 Fragrance
Euxyl® PE 9010 (Schülke & Mayr, GmbH) Phenoxyethanol (and) Ethylhexylglycerin | 0.75 Preservative

Total | 100.00

Procedure
1. In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water.
2. Sprinkle in Natrosol™ 250 HHR into vessel. Mix until well dispersed.
3. Add Propylene Glycol and Versene™ 100.
4. Start heating to 72-75°C (162-169°F).
5. In a separate vessel, prepare Phase 2 by combining Phase 2 ingredients. Start heating to 72-75°C (162-169°F). Mix until all ingredients are melted.
6. Add Phase 2 to Phase 1 with agitation. Emulsify for 10-15 minutes while maintaining temperature at 72-75°C (162-169°F).
7. Begin cooling with agitation to 45°C (113°F).
8. Adjust pH with Citric Acid or Sodium Hydroxide, if necessary.
9. Add Euxyl® PE 9010 and Fragrance. Cool the emulsion to ambient temperature with slow agitation.

**Additional information on non-Stepan ingredients:**

HALLSTAR® PGMS PURE is Propylene Glyceryl Stearate, from Hallstar.

<table>
<thead>
<tr>
<th>Physical Properties</th>
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<tbody>
<tr>
<td>Appearance at 25°C</td>
<td>White viscous cream</td>
</tr>
<tr>
<td>Viscosity at 25°C (RVT, spindle B @10 rpm for 60 seconds), cps</td>
<td>15,000</td>
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<tr>
<td>pH, as is at 25°C</td>
<td>6.15</td>
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<table>
<thead>
<tr>
<th>Storage/ Stability</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>4 weeks at 5°C</td>
<td>Stable</td>
</tr>
<tr>
<td>4 weeks at 25°C</td>
<td>Stable</td>
</tr>
<tr>
<td>4 weeks at 45°C</td>
<td>Stable</td>
</tr>
<tr>
<td>Freeze/Thaw 3 cycles</td>
<td>Pass</td>
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</table>

**Marketing Notes:** BCI = 100. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Naturally derived refers to products with a BCI of >50%. Other ingredients were not evaluated. For further information on Stepan’s BCI, visit www.stepan.com. The seven natural moisturizers include: 1) NEOBEE® M-5 COSMETIC, 2) WECOBEE® S, 3) Sunflower Oil, 4) Jojoba Oil, 5) STEPAN-MILD® L3, 6) Rosehip Seed Oil, and 7) Sacha Inchi Oil. All ingredients are considered moisturizers by Personal Care Products Council (PCPC). NEOBEE® M-5 COSMETIC, WECOBEE® S, and STEPAN-MILD® L3 all have a BCI of 100. The term “Natural” is used to describe Stepan products with a BCI equal to 100. “Substantial hydration” is a sensory characteristic validated from internal panel testing vs untreated skin.