

Formulation

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	<p>INGREDIENTS:</p> <p>=== Phase 1 === Deionized Water Natrosol™ 250 HHR (Ashland, Inc.) Hydroxyethylcellulose Propylene Glycol Versene™ 100 (The Dow Chemical Company) Tetrasodium EDTA</p> <p>=== Phase 2 === WECOBEE® S Polawax (Croda International Plc) Emulsifying Wax, NF NEOBEE® M-5 COSMETIC Stearic Acid HALLSTAR® PGMS PURE (Hallstar) Liposorb® S (Vantage Specialty Ingredients) Sorbitan Stearate Sunflower Oil - Helianthus Annuus (Sunflower) Seed Oil Jojoba Oil - Simmondsia Chinensis (Jojoba) Seed Oil STEPAN-MILD® L3 Allantoin (DSM) Allantoin Rosehip Seed Oil - Rosa Moschata Seed Oil Sacha Inchi Oil - Plukenetia Volubilis Seed Oil</p> <p>=== Phase 3 === Citric Acid Sodium Hydroxide Fragrance Dream Angel # 59292 (Chemia Fragrance & Flavor) Euxyl® PE 9010 (Schülke & Mayr, GmbH) Phenoxxyethanol (and) Ethylhexylglycerin</p> <p>Total</p>	<p><u>% by Weight</u> <u>Functionality</u></p> <p>q.s. 100.00 Diluent 0.10 Rheology Modifier 2.00 Humectant 0.20 Chelating Agent</p> <p>1.25 Occlusive Agent 2.00 Emulsifier 6.00 Occlusive Agent 5.00 Emulsifier 1.25 Emulsifier 0.75 Emulsifier 4.00 Emollient 1.00 Emollient 0.80 Emollient 0.15 Moisturizing Agent 0.15 Emollient 0.15 Emollient</p> <p>q.s. pH Adjuster q.s. pH Adjuster 0.50 Fragrance 0.75 Preservative</p> <hr/> <p>100.00</p>
Procedure	<ol style="list-style-type: none"> 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.

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

External Comment

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.

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STEPAN-MILD®
WECOBEE®

For Additional Assistance

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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