

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	INGREDIENTS: === Phase 1 === Deionized Water Natrosol™ 250 HHR (Ashland, Inc.) Hydroxyethylcellulose Propylene Glycol Versene™ 100 (The Dow Chemical Company) Tetrasodium EDTA === 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 === Phase 3 === Citric Acid Sodium Hydroxide Fragrance Dream Angel # 59292 (Chemia Fragrance & Flavor) Euxyl® PE 9010 (Schülke & Mayr, GmbH) Phenoxxyethanol (and) Ethylhexylglycerin	% by Weight Functionality q.s. 100.00 Diluent 0.10 Rheology Modifier 2.00 Humectant 0.20 Chelating Agent 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 q.s. pH Adjuster q.s. pH Adjuster 0.50 Fragrance 0.75 Preservative <hr/> 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.

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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NEOBEE®
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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