

Formulation

Name	SPRAY BODY LOTION	
No.	1085	
Description	<p>Pressed for time in the morning? In a rush after the gym? Don't let your beauty routine suffer! This lightweight spray lotion is easy to apply and absorbs quickly for a moisturized, non-greasy feel thanks to STEPAN-MILD® L3, a 100% naturally-derived silicone alternative.</p>	
Formulation	<p>INGREDIENTS:</p> <p>=== Phase 1 === Deionized Water Natrosol™ 250 HHR (Ashland, Inc.) Hydroxyethylcellulose Glycerin Versene™ 100 (The Dow Chemical Company) Tetrasodium EDTA</p> <p>=== Phase 2 === Arlancel™ 165 (Croda International Plc) Glyceryl Stearate (and) PEG-100 Stearate Polawax™ NF (Croda International Plc) Emulsifying Wax STEPAN-MILD® L3 Stearyl Alcohol</p> <p>=== Phase 3 === Citric Acid Sodium Hydroxide Fragrance, Dye, Preservative</p> <p>Total</p>	<p><u>% by Weight</u> <u>Functionality</u></p> <p>q.s. 100.0 Carrier 0.1 Stabilizer 1.0 Humectant 0.1 Chelating Agent</p> <p>1.0 Emulsifier 1.0 Emulsifier 5.0 Emollient 1.0 Stabilizer</p> <p>q.s. pH Adjuster q.s. pH Adjuster q.s. Additive</p> <hr/> <p>100.0</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 Glycerin and Versene 100. Start heating to 72-75 °C (162-169 °F). 4. Prepare Phase 2 by combining Phase 2 ingredients. Start heating to 72-75°C (162-169 °F). Mix until all ingredients are melted. 5. Add Phase 2 to Phase 1 with agitation. Emulsify for 10-15 minutes while maintaining temperature at 72-75 °C (162-169 °F). 6. Begin cooling with agitation to 45 °C (113°F). 7. Adjust pH with Citric Acid or Sodium Hydroxide if necessary. 8. Add preservative, dye, and fragrance. Cool the emulsion to ambient temperature with slow agitation. 	
Physical Properties	Appearance at 25 °C pH, as is Viscosity at 25 °C, RVT 5 at 20 rpm, cps	White Emulsion 5.9 3,000
Storage/Stability	4 weeks at 25 °C 4 weeks at 43 °C Freeze/Thaw, 3 cycles	Stable Stable Pass

Instructions
for Use

Spray all over the body after a shower or bath.

External
Comment

BCI = 100. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com.

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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).

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