

Name

SILICONE-FREE MEN'S CONDITIONING SHAMPOO & BODY WASH WITH NINOL® CAA

No.

1250

Description

This highly fragranced formulation utilizes STEPAN-MILD® L3 to provide a light conditioning effect without silicones. The addition of NINOL® CAA not only solubilizes the fragrance, but also provides viscosity building without the addition of traditional salt systems.

Formulation

INGREDIENTS:

% by Weight Functionality

=== Phase 1 === Deionized Water

STEPANOL® WA-EXTRA HP STEOL® CS-270 C (or STEOL® CS-270 PLUS) AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)

STEPAN-MILD® L3

=== Phase 2 === NINOL® CAA

Fragrance

=== Phase 3 === Citric Acid, 50% solution Sodium Hydroxide, 50% solution Preservative

Dye

q.s. to 100.0 Carrier

32.0 Primary Surfactant5.9 Primary Surfactant3.0 Secondary Surfactant0.5 Conditioning Agent

3.0 Viscosity Builder, Solubilizer

1.0 Fragrance

q.s. pH Adjuster q.s. pH Adjuster q.s. Preservative

g.s. Dye

Total 100.0

Procedure

- 1. In a suitable vessel equipped with agitation and heating/cooling, charge the Deionized Water, STEPANOL® WA-EXTRA HP, STEOL® CS-270 C (or STEOL® CS-270 PLUS), and AMPHOSOL® HCG (or AMPHOSOL® HCG-HP). Mix until homogeneous.
- 2. Heat to 50°C, then add STEPAN-MILD® L3. Mix until clear and homogeneous.
- 3. In a separate vessel, pre-mix the NINOL® CAA and Fragrance.
- 4. Add the pre-mix to the batch and mix until clear and homogeneous.
- 5. Adjust pH to 5-6 with either Citric Acid, 50% solution or Sodium Hydroxide, 50% solution and begin to cool.
- 6. Once cooled to room temperature, add Preservative and Dye.
- **While this formulation provides a starting point, it is up to the end manufacturer to ensure their formulations and products meet all application regulations, including the New York 1,4-dioxane concentration limits.

Physical Properties

Appearance at 25°C

pH, as is

Viscosity at 25°C, cps 4,000 - 6,000

Storage/ Stability 4 weeks at 25°C 4 weeks at 45°C Freeze/Thaw, 3 cycles Stable Stable Passes

5 - 6

Clear, viscous liquid

External Comment

Marketing Notes: NINOL® CAA is a multifunctional secondary surfactant that is naturally-derived (derived from plant, animal or marine sources). Silicone-free is defined as this formulation does not contain silicone or silicone containing compounds. BCI = 90. 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. STEOL® CS-270 PLUS has a maximum residual 1,4-dioxane level of 10 ppm on an as-supplied basis.

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For Additional Assistance For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or +33 476 505 100 (Europe).

For ordering assistance, call our Account Service Department at 1-800-457-7673.

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