

Formulation

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| 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 | q.s. to 100.0 Carrier |
| | STEPANOL® WA-EXTRA HP | 32.0 Primary Surfactant |
| | STEOL® CS-230 | 16.0 Primary Surfactant |
| | AMPHOSOL® HCG | 3.0 Secondary Surfactant |
| | STEPAN-MILD® L3 | 0.5 Conditioning Agent |
| | === Phase 2 === | |
| | NINOL® CAA | 3.0 Viscosity Builder, Solubilizer |
| | Fragrance | 1.0 Fragrance |
| | === Phase 3 === | |
| | Citric Acid, 50% solution | q.s. pH Adjuster |
| | Sodium Hydroxide, 50% solution | q.s. pH Adjuster |
| | Preservative | q.s. Preservative |
| | Dye | q.s. Dye |
| | Total | 100.0 |
| Procedure | <ol style="list-style-type: none"> 1. In a suitable vessel equipped with agitation and heating/cooling, charge the Deionized Water, STEPANOL® WA-EXTRA HP, STEOL® CS-230, and AMPHOSOL® HCG. 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. | |
| Physical Properties | Appearance at 25°C | Clear, viscous liquid |
| | pH, as is | 5 - 6 |
| | Viscosity at 25°C, cps | 4,000 - 6,000 |
| Storage/Stability | 4 weeks at 25°C | Stable |
| | 4 weeks at 45°C | Stable |
| | Freeze/Thaw, 3 cycles | Passes |
| 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.

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Stepan 

Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

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