

Formulation

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| Name | PEARLESCENT CONDITIONING SHAMPOO WITH COCONUT OIL | |
| No. | 1236 | |
| Description | This is a premium conditioning shampoo that does not use heavy silicones. | |
| Formulation | INGREDIENTS: | <u>% by Weight</u> <u>Functionality</u> |
| | Deionized Water | q.s. to 100.00 Carrier |
| | UCARE Polymer JR-30M (Dow) Polyquaternium-10 | 0.15 Thickener |
| | STEPANOL® AMV | 25.00 Primary Surfactant |
| | STEOL® CA-330 | 18.00 Primary Surfactant |
| | AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) | 3.60 Secondary Surfactant |
| | NINOL® CAA | 1.60 Viscosity Builder |
| | Versene 100 (Dow Chemical) Tetrasodium EDTA | 0.10 Chelating Agent |
| | Glucamate DOE-120 (Lubrizol) PEG-120 Methyl Glucose Dioleate | 0.30 Thickener |
| | Coconut Oil | 0.20 Emollient |
| | HALLSTAR® EGDS (Hallstar) Ethylene Glycol Distearate | 0.25 Pearlescent Agent |
| | Merquat 550 (Lubrizol) Polyquaternium-7 | 1.00 Conditioning Agent |
| | Preservative, Dye and Fragrance | q.s. Additives |
| | Citric Acid, 50% solution | q.s. pH Adjuster |
| | Sodium Hydroxide, 50% solution | q.s. pH Adjuster |
| | Total | 100.00 |
| Procedure | <ol style="list-style-type: none"> 1. Charge the Deionized Water in a suitable vessel equipped with heating/cooling and agitation. 2. Sprinkle in UCARE Polymer JR-30M and mix until well dispersed. 3. Heat to 72°C–75°C. Add STEPANOL® AMV, STEOL® CA-330, AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), NINOL® CAA, and Versene 100. Mix until dissolved and homogenous. 4. Add Glucamate DOE-120, Coconut Oil, and HALLSTAR® EGDS with mixing. Continue mixing for 30 minutes at 72°C–75°C until system is homogeneous. Begin cooling to 40°C. 5. At 40°C, add Merquat 550 with mixing. Continue cooling to room temperature. 6. Adjust pH to 5.0-6.0 with either Sodium Hydroxide, 50% solution or Citric Acid, 50% solution. 7. Add Preservative, Dye and Fragrance. <p>*Note: When formulating with AMPHOSOL® HCG-HP, a greater amount of Citric Acid, 50% solution may be needed to adjust the pH within the recommended range as noted, than when formulating with AMPHOSOL® HCG.</p> | |
| Physical Properties | Appearance at 25°C | White, pearlescent viscous liquid |
| | pH, as is | 5.0-6.0 |
| | Viscosity at 25°C, cps | 13,000-15,000 |
| Storage/Stability | 4 weeks at 25°C | Stable |
| | 4 weeks at 45°C | Stable |
| | Freeze/Thaw, 3 cycles | Passes |
| Instructions for Use | Apply to hair and massage scalp. Rinse. | |
| External | | |

Comment

Marketing Notes: NINOL® CAA is a multi-functional secondary surfactant that is naturally-derived (derived from plant, animal or marine sources). BCI = 85. 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. STEPANOL® AMV PCK may be a potential substitute for STEPANOL® AMV. It should be noted that stability testing using this STEPANOL® AMV PCK has not been completed on this formulation. The substitution may yield slightly different physical properties.

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Assistance

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Revision Date: 12/21/2016 Publication Date: 10/09/2015 © 2016, Stepan Company. All rights reserved.