

Formulation

Name	PEARLESCENT CONDITIONING SHAMPOO AND BODY WASH																											
No.	1013																											
Description	This pearlescent shampoo provides good foam and conditioning properties that can also be utilized as a body wash.																											
Formulation	INGREDIENTS: Deionized Water UCARE Polymer JR-400 (Amerchol) Polyquaternium-10 Glycerin STEPAN-MILD® PCL AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) Glycol Stearate Panthenol (Roche) Sodium Chloride Citric Acid, 50% Solution Sodium Hydroxide, 50% Solution Preservative, Dye and Fragrance	<table border="1"> <thead> <tr> <th><u>% by Weight</u></th> <th><u>Functionality</u></th> </tr> </thead> <tbody> <tr> <td>q.s. to 100.0</td> <td>Carrier</td> </tr> <tr> <td>0.3</td> <td>Conditioning Agent</td> </tr> <tr> <td>0.5</td> <td>Humectant</td> </tr> <tr> <td>36.7</td> <td>Primary Surfactant</td> </tr> <tr> <td>9.6</td> <td>Secondary Surfactant</td> </tr> <tr> <td>0.5</td> <td>Pearlescent Agent</td> </tr> <tr> <td>0.2</td> <td>Additive</td> </tr> <tr> <td>q.s.</td> <td>Viscosity Builder</td> </tr> <tr> <td>q.s.</td> <td>pH Adjuster</td> </tr> <tr> <td>q.s.</td> <td>pH Adjuster</td> </tr> <tr> <td>q.s.</td> <td>Additive</td> </tr> <tr> <td>Total</td> <td>100.0</td> </tr> </tbody> </table>	<u>% by Weight</u>	<u>Functionality</u>	q.s. to 100.0	Carrier	0.3	Conditioning Agent	0.5	Humectant	36.7	Primary Surfactant	9.6	Secondary Surfactant	0.5	Pearlescent Agent	0.2	Additive	q.s.	Viscosity Builder	q.s.	pH Adjuster	q.s.	pH Adjuster	q.s.	Additive	Total	100.0
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Procedure	<ol style="list-style-type: none"> Charge vessel with Deionized Water. Start agitation. Slowly sprinkle in UCARE JR-400. Mix until completely dispersed. Add Glycerin. Mix thoroughly. Add STEPAN-MILD® PCL and AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), mixing until homogeneous. Heat to 68°C-71°C (155°F-160°F). Add Glycol Stearate. Mix for 25 minutes. Start cooling. At ambient temperature, adjust pH with Sodium Hydroxide or Citric Acid. Adjust viscosity with Sodium Chloride, if necessary. Add Panthenol. Mix. Add Preservative, Dye, and Fragrance as desired. <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 pH, as is Viscosity at 25°C, cps	Pearlescent liquid 6.5-7.0 3,500-5,000																										
Storage/Stability	1 month at 25°C 4 weeks at 45°C	Stable Stable																										
Instructions for Use	Apply shampoo to wet hair, lather, and then rinse.																											
External Comment	Marketing Notes: BCI = 85. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan's BCI, visit																											

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