



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	<div>INGREDIENTS:</div> <table><thead><tr><th></th><th>% by Weight</th><th>Functionality</th></tr></thead><tbody><tr><td>Deionized Water</td><td>q.s. to 100.0</td><td>Carrier</td></tr><tr><td>UCARE Polymer JR-400 (Amerchol) Polyquaternium-10</td><td>0.3</td><td>Conditioning Agent</td></tr><tr><td>Glycerin</td><td>0.5</td><td>Humectant</td></tr><tr><td>STEPAN-MILD® PCL</td><td>36.7</td><td>Primary Surfactant</td></tr><tr><td>AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)</td><td>9.6</td><td>Secondary Surfactant</td></tr><tr><td>Glycol Stearate</td><td>0.5</td><td>Pearlescent Agent</td></tr><tr><td>Panthenol (Roche)</td><td>0.2</td><td>Additive</td></tr><tr><td>Sodium Chloride</td><td>q.s.</td><td>Viscosity Builder</td></tr><tr><td>Citric Acid, 50% Solution</td><td>q.s.</td><td>pH Adjuster</td></tr><tr><td>Sodium Hydroxide, 50% Solution</td><td>q.s.</td><td>pH Adjuster</td></tr><tr><td>Preservative, Dye and Fragrance</td><td>q.s.</td><td>Additive</td></tr><tr><td>Total</td><td>100.0</td><td></td></tr></tbody></table>				% by Weight	Functionality	Deionized Water	q.s. to 100.0	Carrier	UCARE Polymer JR-400 (Amerchol) Polyquaternium-10	0.3	Conditioning Agent	Glycerin	0.5	Humectant	STEPAN-MILD® PCL	36.7	Primary Surfactant	AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)	9.6	Secondary Surfactant	Glycol Stearate	0.5	Pearlescent Agent	Panthenol (Roche)	0.2	Additive	Sodium Chloride	q.s.	Viscosity Builder	Citric Acid, 50% Solution	q.s.	pH Adjuster	Sodium Hydroxide, 50% Solution	q.s.	pH Adjuster	Preservative, Dye and Fragrance	q.s.	Additive	Total	100.0	
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Procedure	<div><div><div>1. Charge vessel with Deionized Water. Start agitation.</div><div>2. Slowly sprinkle in UCARE JR-400. Mix until completely dispersed.</div><div>3. Add Glycerin. Mix thoroughly.</div><div>4. Add STEPAN-MILD® PCL and AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), mixing until homogeneous.</div><div>5. Heat to 68°C-71°C (155°F–160°F). Add Glycol Stearate. Mix for 25 minutes.</div><div>6. Start cooling. At ambient temperature, adjust pH with Sodium Hydroxide or Citric Acid. Adjust viscosity with Sodium Chloride, if necessary.</div><div>7. Add Panthenol. Mix.</div><div>8. Add Preservative, Dye, and Fragrance as desired.</div></div><div>*Note: When formulating with AMPHOSHOL® 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.</div></div>																																									
Physical Properties	<div>Appearance at 25°C</div> <div>pH, as is</div> <div>Viscosity at 25°C, cps</div>	<div>Pearlescent liquid</div> <div>6.5–7.0</div> <div>3,500-5,000</div>																																								
Storage/ Stability	<div>1 month at 25°C</div> <div>4 weeks at 45°C</div>	<div>Stable</div> <div>Stable</div>																																								
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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Revision Date: 12/19/2016 Publication Date: 03/07/2008 © 2016, Stepan Company. All rights reserved.