

Formulation

Name	CLEAR CONDITIONING SHAMPOO																																					
No.	851																																					
Description	This clear shampoo provides cleansing as well as conditioning.																																					
Formulation	<p>INGREDIENTS:</p> <p>==== Phase 1 ====</p> <table border="0"> <tr> <td>Deionized Water</td> <td style="text-align: right;">q.s. to 100.0</td> </tr> <tr> <td>UCARE Polymer JR-30M (Dow) Polyquaternium-10</td> <td style="text-align: right;">0.15</td> </tr> <tr> <td>Aloe Vera Powder 200X (Terry Laboratories) Aloe Barbadensis Gel</td> <td style="text-align: right;">0.1</td> </tr> <tr> <td>Versene NA (Dow Chemical) Disodium EDTA</td> <td style="text-align: right;">0.1</td> </tr> <tr> <td>STEPANOL® AM-V</td> <td style="text-align: right;">25.0</td> </tr> <tr> <td>STEOL® CA-330</td> <td style="text-align: right;">18.0</td> </tr> <tr> <td>AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)</td> <td style="text-align: right;">3.6</td> </tr> <tr> <td>NINOL® LMP</td> <td style="text-align: right;">1.6</td> </tr> <tr> <td>Silsoft A-843 (Witco) Dimethicone Bisaminohydroxypropyl Copolyol</td> <td style="text-align: right;">2.0</td> </tr> <tr> <td colspan="2">==== Phase 2 ====</td> </tr> <tr> <td>Merquat 550 (Nalco) Polyquaternium-7</td> <td style="text-align: right;">1.0</td> </tr> <tr> <td>DL-Panthenol (Roche) Panthenol</td> <td style="text-align: right;">0.25</td> </tr> <tr> <td>Glydant (Lonza) DMDM Hydantoin</td> <td style="text-align: right;">0.25</td> </tr> <tr> <td colspan="2">==== Phase 3 ====</td> </tr> <tr> <td>Citric Acid</td> <td style="text-align: right;">q.s.</td> </tr> <tr> <td>Sodium Chloride</td> <td style="text-align: right;">q.s.</td> </tr> <tr> <td></td> <td style="text-align: right;">Total</td> </tr> <tr> <td></td> <td style="text-align: right;">100.0</td> </tr> </table>	Deionized Water	q.s. to 100.0	UCARE Polymer JR-30M (Dow) Polyquaternium-10	0.15	Aloe Vera Powder 200X (Terry Laboratories) Aloe Barbadensis Gel	0.1	Versene NA (Dow Chemical) Disodium EDTA	0.1	STEPANOL® AM-V	25.0	STEOL® CA-330	18.0	AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)	3.6	NINOL® LMP	1.6	Silsoft A-843 (Witco) Dimethicone Bisaminohydroxypropyl Copolyol	2.0	==== Phase 2 ====		Merquat 550 (Nalco) Polyquaternium-7	1.0	DL-Panthenol (Roche) Panthenol	0.25	Glydant (Lonza) DMDM Hydantoin	0.25	==== Phase 3 ====		Citric Acid	q.s.	Sodium Chloride	q.s.		Total		100.0	% by Weight
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Procedure	<ol style="list-style-type: none"> 1. In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water. 2. Sprinkle in UCARE Polymer JR-30M into water. Mix until well dispersed. 3. Sprinkle in Aloe Vera Gel into water. Mix until well dissolved. 4. Start heating water phase to 72-75°C. 5. Add Versene NA, STEPANOL® AM-V, STEOL® CA-330, AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), NINOL® LMP and Silsoft A-843 with moderate agitation. Continue heating to 72°C-75°C. Mix until everything is completely dissolved, at least 30 minutes. 6. Begin cooling to 40°C. Adjust mixing speed to minimize aeration. 7. At 40°C, add Merquat 550, dl-Panthenol and Glydant with continuous mixing. 8. Continue cooling the batch to 25°C. 9. Adjust pH with Citric Acid if necessary. 10. Adjust viscosity with Sodium Chloride if necessary. <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	<p>Appearance, as is</p> <p>pH, as is</p> <p>Viscosity at 25°C (RV 6 at 20 rpm), cps</p>	<p>Clear viscous liquid</p> <p>6.0-7.0</p> <p>2,000-3,000</p>																																				
Storage/	Freeze-Thaw	Stable for 3 cycles																																				

Stability	1 month at 45°C	Stable
Instructions for Use	Apply to hair, lather, rinse, and repeat, if desired.	
External Comment	Marketing Notes: STEPANOL® AMV PCK may be a potential substitute for STEPANOL® AM-V. 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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For Additional Assistance	<p>For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).</p> <p>For ordering assistance, call our Account Service Department at 1-800-457-7673.</p> <p>The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents or to violate any applicable laws.</p> <p>STEPAN COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, AND NO WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE, INCLUDING REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, ADEQUACY OR OTHERWISE.</p> <p>Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party in respect of this information, including in respect of its accuracy, completeness, adequacy, furnishing, use, or reliance upon, and the vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise.</p>	



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