




## Formulation

Name	<b>DAILY MOISTURIZING SULFATE-FREE SHAMPOO WITH MAPROSYL® 30-MP</b>		
No.	1420		
Description	This shampoo formulation is free from all sulfates, including inorganic sodium sulfate. Used as a daily shampoo, it gently lathers and removes grease and buildup with a light conditioning effect. This formulation is suitable for the Asia Pacific region.		
Formulation	<b>INGREDIENTS:</b>	<b>% by Weight</b>	<b>Functionality</b>
	=== Phase 1 ===		
	Deionized Water	q.s. to 100.00	Diluent
	UCARE™ Polymer JR-30M (Dow, Inc.) Polyquaternium-10	0.20	Conditioning Agent
	MAPROSYL® 30-MP	30.00	Primary Surfactant
	AMPHOSOL® CDB-HP	20.00	Secondary Surfactant
	=== Phase 2 ===		
	HALLSTAR® EGMS (Hallstar) Glycol Stearate	0.50	Pearlescent Agent
	STEPAN® SLL-FB	2.00	Surfactant, Foam Booster
	=== Phase 3 ===		
	STEPAN-MILD® GCC	0.25	Conditioning Agent, Emollient
	STEPAN-MILD® L3	0.25	Conditioning Agent, Emollient
	Galsilk 700 (Galaxy Surfactants Ltd.) Polyquaternium-7	3.00	Conditioning Agent
	=== Phase 4 ===		
	Citric Acid (50% Solution)	q.s.	pH Adjuster
	Sodium Hydroxide (50% Solution)	q.s.	pH Adjuster
	Sodium Chloride	q.s.	Viscosity Adjuster
	Fragrance, Dye and Preservative	q.s.	Additives
	<b>Total</b>	<b>100.00</b>	
Procedure	<ol style="list-style-type: none"><li>1. Add Deionized Water to a suitable vessel equipped with heating and agitation capabilities.</li><li>2. Sprinkle in UCARE™ Polymer JR-30M. Mix until dispersed and clear.</li><li>3. Add MAPROSYL® 30-MP and AMPHOSOL® CDB-HP with mixing. Start heating to 75°C (167°F).</li><li>4. Once at 75°C (167°F), add STEPAN® SLL-FB and HALLSTAR® EGMS with mixing until clear and then begin cooling.</li><li>5. At 45°C (113°F), add STEPAN-MILD® GCC, STEPAN-MILD® L3 and Galsilk 700. Mix until all is dissolved.</li><li>6. Cool to room temperature. Adjust pH with Citric Acid or Sodium Hydroxide and adjust viscosity with Sodium Chloride, if necessary.</li><li>7. Add Preservative, Dye, and Fragrance, as desired.</li></ol>		
Physical Properties	Appearance, as is	Pearlescent, viscous liquid	
	pH at 25°C, as is	5.5 - 6.5	
	Viscosity at 25°C (LVT #3 at 12 rpm), cps	3,000 - 5,000	

Storage/ Stability	12 weeks at 5°C 12 weeks at 25°C 12 weeks at 45°C Freeze/Thaw 3 cycles	Stable Stable Stable Pass
Instructions for Use	Apply to wet hair. Lather, then rinse thoroughly. Repeat if desired. Use daily.	
External Comment	Marketing Notes: BCI = 84. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other non-Stepan ingredients were not evaluated. For further information on Stepan's BCI, visit <a href="http://www.stepan.com">www.stepan.com</a> . Sulfate free is defined as containing no alcohol sulfate or alcohol ether sulfate as per INCI nomenclature. This formulation also contains no inorganic sulfates.	
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