

Formulation

Name	DAILY MOISTURIZING SULFATE-FREE SHAMPOO WITH MAPROSYL® 30-MP	
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	INGREDIENTS:	% by Weight Functionality
	=== 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
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. Add Deionized Water to a suitable vessel equipped with heating and agitation capabilities. 2. Sprinkle in UCARE™ Polymer JR-30M. Mix until dispersed and clear. 3. Add MAPROSYL® 30-MP and AMPHOSOL® CDB-HP with mixing. Start heating to 75°C (167°F). 4. Once at 75°C (167°F), add STEPAN® SLL-FB and HALLSTAR® EGMS with mixing until clear and then begin cooling. 5. At 45°C (113°F), add STEPAN-MILD® GCC, STEPAN-MILD® L3 and Galsilk 700. Mix until all is dissolved. 6. Cool to room temperature. Adjust pH with Citric Acid or Sodium Hydroxide and adjust viscosity with Sodium Chloride, if necessary. 7. Add Preservative, Dye, and Fragrance, as desired. 	
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	Stable
	12 weeks at 25°C	Stable
	12 weeks at 45°C	Stable
	Freeze/Thaw 3 cycles	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 www.stepan.com . 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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For Additional Assistance	For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or +33 476 505 100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673.	
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Revision Date: 02/28/2023 Publication Date: 02/28/2023 © 2023, Stepan Company. All rights reserved.