



Formulation

Name	SULFATE-FREE SHAMPOO	
No.	1074	
Description	This shampoo provides good cleansing property, good foam, and nice wet and dry combability.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	q.s. to 100.0 Solvent
	PEG-150 Distearate (HALLSTAR® PEG 6000 DS)	1.2 Thickener
	BIO-TERGE® AS-40 CG-P	25.6 Primary Surfactant
	STEPAN-MILD® L3	2.0 Secondary Surfactant
	SilPlex J-2S (Silicone Quaternium-20), Siltec LLC	1.0 Conditioning Agent
	Preservative, Dye and Fragrance	q.s. Additive
	Sodium Chloride	q.s. Viscosity Modifier
	Sodium Hydroxide	q.s. pH Modifier
	Citric Acid	q.s. pH Modifier
	Total	_____
Procedure	In a separate container, combine Deionized Water, PEG-150 Distearate, BIO-TERGE® AS-40 CG-P, and STEPAN-MILD® L3. Start mixing and heating to 155°F–160°F. When solution is clear, start cooling to room temperature. At 90°F, add SilPlex J-2S. Mix well. Add Preservative, Fragrance, and Dye. Mix well. Adjust pH with Sodium Hydroxide or Citric Acid, and viscosity with Sodium Chloride.	
Physical Properties	Appearance at 25°C	clear
	pH, as is	5.8 - 6.5
	Viscosity at 25°C, cps	8,000 - 10,000
Instructions for Use	Massage into wet hair, lather, then rinse throughly. Repeat if desired.	
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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 011-334-76-505-100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673.	
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