

Oil Control Shampoo

Ref: PS3-119

This mild sulfate free shampoo designed to illustrate that healthy hair starts from the healthy scalp.

PAE Complex® Oil Control exfoliates the scalp, decreases sebum production, and moisturizes scalp and hair. The addition of **Biosil Basics SPQ CE** and BioPlex **Cetylsil S-PF** enhance the conditioning and manageability properties. **BioPlex Cetylsil S-PF** significantly reduces irritation.

INCI	Trade Name	Supplier	% W/W
Phase A			
D.I. Water			Q.S.
Polyacrylate-33	Rheomer 33	Rhodia	5.00
Phase B			
Sodium C14-16 Olefin Sulfonate	Rhodacol LSS 40 A	Rhodia	28.00
Sodium Cocoamphoacetate	Mackam HPC-32L	Rhodia	9.40
Cocamidopropyl Hydroxysultaine	Mackam CBS-50G	Rhodia	1.60
Phase C			
Citric Acid	Citric Acid (50% sol.) to pH 5.5		0.90
Phase D			
Silicone Quaternium-2 Panthenol Succinate	Biosil Basics SPQ CE	Biosil	1.00
Cetyl Triethylmonium Dimethicone PEG-8 Succinate	BioPlex Cetylsil S-PF	Biosil	3.00
Aloe Barbadosensis Leaf Juice (and) Phytic Acid (and) Fucus Spiralis Extract (and) Tetraselmis Chui Extract	PAE Complex Oil Control	Biosil	10.00
Sodium Chloride	Sodium Chloride	Ruger	1.50
Benzyl Alcohol, Benzoic Acid, Dehydroacetic Acid, Tocopherol	Euxyl K 903	Schulke	1.00
Sodium C14-16 Olefin Sulfonate, Glycol Stearate, Cocamidopropyl Betaine	Mirasheen SSE	Rhodia	5.00
Fragrance	Pure Crystals S11-55122	Premier	0.50
Blue #1	1.0% Sol		0.025

Procedure: Mix ingredients of Phase A together until it is uniform. Add ingredients of Phase B one by one with mixing. Adjust pH with Citric Acid to 5.5. Add ingredients of Phase D one by one with mixing.

Parameters: pH 5.00. Viscosity 16470 CPS S#5 @ 6RPM

Stability: acceptable 8 weeks stability at 4C, RT, 45C, and 3F/T cycles.