



CHERISHD. FORMULATION GUIDE: HAIR & SCALP SPRAY

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Cupuacu butter	Theobroma Grandiflorum	0.5%	Phase A
Mango Butter	Mangifera Indica Seed Butter	0.75%	
Rice Wax	Oryza Sativa Bran Wax	0.25%	
ABS Pomegranate Sterols	Punica Granatum Sterols	0.20%	
CosmeGreen MB1618	Beta Vulgaris Root Extract, Cetearyl Alcohol	0.40%	
Raspberry NECTA®	Rubus Idaeus Seed Oil	3.00%	
Natpure Sol SL	Glycerine, Hydrogenated Starch Hydrolysate, Aqua, Sucrose Laurate	3.25%	

DI Water	Aqua	Q/S	Phase B1
A-Leen® 5	Pentylene Glycol	4.00%	
Organic Emulsifier Blend 60	Oryza Sativa Bran Extract, Cyamopsis Tetragonoloba, Gum	1.00%	Phase B2
Glycerine	Glycerine	4.00%	
White Rice CRUSH™ Active	Oryza Sativa Starch	1.00%	
Propanediol	Propanediol	2.50%	
preBiulin C90	Cellulose Gum, Inulin, Xanthan Gum, Fructose, Glucose, Cellulose	0.20%	

Gin TONIQ®	Saccharomyces/Barley Seed Ferment Filtrate, Glycerine	5.00%	Phase C
Faba TONIQ®	Cicer Arietinum Seed Extract, Benzyl Alcohol	5.00%	
Barley TONIQ®	Hordeum Vulgare Seed Extract, Propanediol.	3.00%	

Essencia True Upcycled Fragrance	Various (8 blends available)	0.20%	Phase D
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CHERISHD. HAIR & SCALP SPRAY METHOD:

FIRST STEP A – OIL PHASE:

- 1) Heat and Melt waxes to 80-85°C, until these have molten.
- 2) Add butters and melt. Integrate/stir.
- 3) Drop temperature to 75°C. Add oil and ensure product molten (raise temperature slightly if/as required to do this).
- 4) Add, while gently stirring, the Natpure Sol SL at 75°C. Note adding this material at higher than 80°C can cause sugars to caramelize/burn.
- 5) Keep Phase A between 70-75°C and under gentle agitation – make sure not to over agitate, which will cause bubbles.

FIRST STEP B – WATER PHASE:

Concurrently, while waxes are melting:

- 1) Combine ingredients in B1. Place into water bath to bring this to 65°C.
- 2) Weigh out propanediol and glycerine. Slowly integrate powders and disperse. This will assist in ensuring the powders are pre-dispersed and do not clump, which can happen if these are added directly into a water phase.
- 3) Under a paddle stirrer, slowly incorporate Phase B2 into Phase B1.
- 4) Stir this for a minimum of 45 minutes to ensure the preBiulin C90 has integrated fully. High shear homogenisation can expedite this process.
- 5) Bring this up to 70°C.

SECOND STEP – EMULSIFICATION:

- 1) When Phase A and B are at temperature, transfer Phase B (water) to a high shear and turn on.
- 2) Add Phase C
- 3) Slowly integrate Phase A (oil) into Phase B (water).
- 4) Make sure there are no lumps forming.
- 5) High shear until fully emulsified.
- 6) Add fragrance while under high shear for 2 minutes.

FINAL STEP COOL DOWN:

- 1) Transfer from high shear to paddle stirrer.
- 2) Stir down until temperature is under 40°C.
- 3) Set aside until system is at room temperature, then place under high shear for 2-5 minutes for final integration.