



PERFORMANCE INSPIRED INGENUITY

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Sustainably Smoothing Hair Cream

Description:

Sustainably Smoothing is a leave-in hair cream that helps to keep hair manageable and provides moisturization and a silky feel. **Silmer® Sustain-H** is a silicone elastomer gel diluted in a sustainable biobased hemisqualane carrier. Unlike traditional silicone elastomer gels, which are often diluted in cyclic silicones or low viscosity dimethicones, **Silmer® Sustain-H** offers a more sustainable, high-performance option. **Silmer® Sustain-H** imparts conditioning effects, including reduction of combing forces, and provides a silky-smooth sensorial in hair. Sustainably Smoothing ensures soft, manageable hair, reducing frizz and static charge, providing the confidence that users desire!

Ingredients:

Phase	Description (supplier)	INCI Name	Wt.%
A	D.I Water	Water	89.00
	Versene Na2 (Dow)	Disodium EDTA	0.10
	Zemea Propanediol (Dupont)	1-3 Propanediol	3.00
	Euxyl PE 9010 (Schulke)	Phenoxyethanol (and) Ethylhexylglycerin	0.90
	Carbopol Ultrez 21 (Lubrizol)	Acrylates/C10-C30 Alkyl Acrylate Crosspolymer	0.70
B	Silmer Sustain-H (Siltech)	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	5.00
	Cremophor CO 40 (BASF)	PEG-40 Hydrogenated Castor Oil	0.80
C	NaOH (10% Sol.)	Sodium Hydroxide (and) Water	0.50
Total			100.00

Procedure:

- 1) In a clean and sanitized beaker, weigh out water and dissolve Disodium EDTA.
- 2) Add 1-3 Propanediol and Euxyl PE9010, then mix until completely dissolved.
- 3) Stop mixing, sprinkle Carbopol Ultrez 21 on the surface of the water. Allow to self-wet until no white clumps are observed.
- 4) While waiting for Ultrez to wet, add Phase B in a separate sanitized beaker, mix until homogenous.
- 5) Add Phase B into a beaker containing Phase A under high shear mixing. Mix until homogeneous.
- 6) Add 10% NaOH Solution while mixing until the gel is completely formed.
- 7) High shear until forming a smooth gel and complete dispersion of Phase B throughout Phase A.

Product formulations are included as illustrative examples. Siltech Corporation makes no representation or warranty of any kind with regard to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.

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