

Formulary Data

Creamy Hair Styling Wax

DESCRIPTION: This light hold hair styling wax has a unique creamy texture that applies easily to achieve a natural, messy look. **PERFORMALENE™ PL Polyethylene** provides rheology modification and is key to achieving a dry, sharp finish to the hair. Hold can be adjusted by adding more or less PVP in the formula.

	INGREDIENTS	% BY WEIGHT
Phase 1:	Deionized Water	q.s.
	Propylene Glycol	3.00
	PVP ^①	2.00
Phase 2:	PERFORMALENE™ PL Polyethylene	2.00
	[Polyethylene]*	
	Carnauba Wax ^②	1.75
	Beeswax ^③	1.00
	Mineral Oil ^④	1.00
	Glyceryl Stearate ^⑤	1.35
	Polysorbate 80 ^⑥	1.65
Stearic Acid ^⑦	0.75	
Phase 3:	TEA (99%)	0.60
Phase 4:	Carbomer (2% Solution) ^⑧	30.00
Phase 5:	SD 40 Alcohol (190 Proof) ^⑨	10.00
Phase 6:	Fragrance	q.s.
	Propylene Glycol (and) Diazolidinyl urea (and)	1.00
	Methylparaben (and) Propylparaben ^⑩	

PROCEDURE: Heat Phase 1 to 85-90°C using paddle mixing blade. Heat Phase 2 to 85-90°C. Add Phase 2 to Phase 1 and mix for 5 minutes maintaining heat at 85°C. Add Phase 3 and mix for another 5 minutes before adding Phase 4. Once carbomer has been added mixture will thicken; continue to mix until a smooth cream has formed about 15 minutes. Cool with slow continuous mixing to 45°C and add remaining ingredients one at a time.

① PVP K-90 - ISP

② SP-63 Strahl and Detsch, Inc.

③ 422 White Beeswax: Strahl and Pitsch Inc.

④ Drakeol 7 - Calumet

⑤ Protachem GMS-450 - Protameen

⑥ Tween 80 - Uniqema

⑦ Hystrene 5016 - Witco

⑧ Carbopol 940 - Noveon

⑨ SD-40B 190 Proof - Equistar Chemicals

⑩ Germaben II - Sutton

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