

Deep Conditioning Hair Mask

This formulation features PEL-SIL Q-80-S, PEL-SIL SFD, PEL-SIL AMOD and PEL-EST OVG for a deep conditioning hair mask that nourishes and soothes the hair and scalp. While locking in moisture, it enhances smoothness and dramatically improves combing in wet and dry hair. Use for periodic deep conditioning.

Phase	INCI Name	Trade Name	Function	% (w/w)
A	Water		Solvent	82.1
A	Guar Hydroxypropyltrimonium Chloride	JAGUAR C13 SGI ⁽¹⁾	Hair conditioning agent Rheology modifier	0.4
A	Glycerin	Glycerin ⁽²⁾	Humectant	2.0
B	Cetearyl Alcohol	SP CRODACOL 1618 ⁽³⁾	Emulsifier	6.0
B	Glyceryl Olivat	PEL-EST OVG	Hair conditioning agent	2.0
B	Behentrimonium Chloride (and) Isopropyl Alcohol	INCROQUAT BEHENYL TMC-85 ⁽³⁾	Hair conditioning agent	2.0
B	Amodimethicone	PEL-SIL AMOD	Hair conditioning agent	1.0
B	Quaternium-80 (and) Propanediol	PEL-SIL Q-80-S	Hair conditioning agent	0.5
B	Dimethicone PG-Sunflowerseedate	PEL-SIL SFD	Hair conditioning agent	1.0
C	Phenoxyethanol	Phenoxyethanol ⁽⁴⁾	Preservative	1.0

Procedure: Disperse guar gum (Guar Hydroxypropyltrimonium Chloride) in water, mix well until there are no particles or clumps of guar gum visible. Start heating to 80°C. At 80°C, add glycerin. In a separate container combine Phase B items and heat to 80°C. When both phases (A & B) are at 80°C, add the oil Phase B to the water Phase A, continue mixing at 80°C for 15 min (increase mixing speed if necessary). Begin cooling to 50°C. At 50°C, add Phase C items to the main batch, continue mixing and cooling to 35°C. Then fill into jars.

(1): Solvay; (2): Acid Product co.; (3): Croda; (4): Rita Corporation

Results: Appearance: off white cream
pH: 6.21
Viscosity @25°C: 258,000 cps
Stability, 8 weeks@45°C: pass
#LH-U-03524
09M-SJ

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