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Silicone-free Dandruff Control Shampoo

(3% SpecKare® HAL)

Features:

Sulfate-free, Silicone-free, Anti-dandruff, Anti-pruritic, Mild Scalp Care.

Phase	Product Name	INCI Name	w/w%	Function
A	Water		To 100	
	Sodium Cocoyl Alaninate		10.0	Hair conditioning
	Cocamidopropyl Betaine		20	Hydrophilic Thickener
	SpecSufc® APG1214	Lauryl Glucoside	10	Nonionic Surfactant
B	SpecKare® PQ-7	Polyquaternium-7	0.5	Film-forming agent
	SpecKare® HAL	Sodium Hyaluronate	3	Humectant
	Disodium EDTA		0.1	Chelating Agent
	SpecKare® PO	Piroctone Olamine	0.3	Anti-dandruff
	SpecKare® DPA	Panthenol	0.5	Humectant
	Citric Acid		pH to 6.5	pH Adjuster
	Fragrance		0.2	

Procedure:

1. Mix part A and heat to 80 °C, stirring until completely dissolved;
2. Cool the base below 45 °C, then add part B, stirring until room temperature.

Properties:

Appearance	Clear, lightly yellowish and viscous liquid
pH	6.37 (1:10 aqueous solution)
Viscosity	7840 (25 °C, 4 #, 30 rpm, mpa*s)
Stability	45 °C for a month; -18 °C for a month