



High Performance 2-in-1 Shampoo

DESCRIPTION

Featuring **Cola®Det DEF-61** and **Cola®Lipid BP**, this formulation builds thick, creamy foam volume and conditions without weighing down hair or building up over time. The liquid surfactant blend (3) is betaine-free, sulfate-free, DEA-free, PEG-free, and meets consumers' desire for mildness **with no Prop 65 warnings**. The naturally-derived biomimetic phospholipid (4) provides non-greasy moisturization and hair conditioning properties - *without silicones*.

FORMULATION

Order	INCI Name	Trade Name	%
1	Water	Water	qs to 100.00
2	Starch Hydroxypropyltrimonium Chloride	Pencare™ DP 1015 ¹	0.20
3	Water, Sodium C14-16 Olefin Sulfonate, Cocamidopropyl Hydroxysultaine, Cocamide MIPA	Cola®Det DEF-61	25.00
4	Sodium Borageamidopropyl PG-Dimonium Chloride Phosphate	Cola®Lipid BP	1.25
5	Glycol Distearate	Glycol Distearate	0.25
6	Fragrance	Oud Fragrance ²	0.20
7	Sodium Benzoate and Potassium Sorbate	Euxyl® K712 ³	1.00
8	Citric Acid	Citric Acid, 50%	0.35

PROCEDURE

1. Combine ingredients 1 – 2 with moderate agitation. Mix until completely hydrated.
2. Add ingredients 3 – 4 and begin heating to 60 – 65°C.
3. Once at temperature, add ingredient 5. Mix until completely dissolved, then cool below 40°C.
4. Add ingredients 6 – 7. Mix until uniform.
5. Adjust to pH 5.0 – 5.5 with ingredient 8.

TYPICAL PROPERTIES

Appearance	Pearled, Viscous Liquid
pH	5.0 – 5.5
Viscosity	5,000 – 10,000 cP
% Solids	11.5 – 12.5

SUPPLIERS

¹Ingredion, ²Orchidia Fragrances, ³Schülke and Mayr

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