

Formulation

No. 1040

Clear Micellar Conditioner

DESCRIPTION

This formulation features Poly Suga®Quat S1210P and Cola®Quat PDQ in a unique concept for a silicone-free, clear conditioner that is designed with micellar technology to provide mild, weightless conditioning without buildup.

FORMULATION

Order	INCI Name	Trade Name	%
1	Water	Water	qs to 100.00
2	Hydroxypropyl Methylcellulose	Benecel™ K200M ¹	0.75
3	Polyquaternium-7	Merquat™ 550 Polymer ²	2.00
4	Polyquaternium-81	Poly Suga®Quat S1210P	4.00
5	Polyquaternium-88	Cola®Quat PDQ	4.00
6	Fragrance	WS Apple Fragrance ³	0.20
7	Benzyl Alcohol and Ethylhexylglycerin and Tocopherol	Euxyl [®] K 900 ⁴	1.00
8	Citric Acid	Citric Acid 50%	qs to pH

PROCEDURE

- 1. Heat 1/3 of the water to 80 85°C and chill the remaining balance of water to ~5°C.
- 2. Disperse ingredient 2 in the hot water, then add the balance of cold water while mixing. Begin cooling to 40 45°C.
- 3. Mix until smooth and uniform, then add ingredient 3.
- 4. Once at 40 45°C, add ingredients 4 7 in order. Mix until clear and uniform.
- 5. Adjust to pH 5.0 5.5 with citric acid.

TYPICAL PROPERTIES

Appearance Clear, Viscous Liquid

pH 5.0 - 5.5

Viscosity 4,000 - 6,000 cP

% Solids 3.8 - 4.0

SUPPLIERS

¹Ashland, ²Lubrizol, ³Orchidia Fragrances, ⁴Schülke & Mayr

Colonial Chemical, Inc. Natural Surfactants