

Name

PREMIUM CONDITIONING SULFATE-FREE SHAMPOO WITH MORINGA OIL

No.

1258

Description

This pearlescent shampoo delivers excellent shine and softness to the hair by using a combination of silicone, STEPAN-MILD® L3, and cationic starch. NINOL® CAA solubilizes the fragrance and builds viscosity in the formulation without the addition of salt.

Formulation INGREDIENTS:

% by Weight Functionality

=== Phase 1 ===

Deionized Water

PenCare DP 1015 (Penford) Cationic Polymer

BIO-TERGE® AS-40 HP

AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)

STEPAN-MILD® L3

HALLSTAR® EGMS (Hallstar) Glycol Monostearate

=== Phase 2 ===

NINOL® CAA Fragrance

Moringa Oil (Princeton Chemicals, Inc.)

=== Phase 3 ===

Dow Corning® CE-1874 (Dow Corning) Silicone Polyether

Microemulsion Preservative

Dye

Citric Acid (50% aq. Solution)

q.s. to 100.00 Carrier

0.08 Feel Enhancer

36.00 Primary Surfactant

12.00 Secondary Surfactant

0.50 Emollient

0.40 Pearlescent Agent

1.80 Secondary Surfactant, Solubilizer

0.50 Fragrance

0.05 Emollient

2.00 Feel Enhancer

q.s. Preservative

g.s. pH Adjuster

q.s. Dye

Total 100.00

Procedure

- 1. In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water and PenCare DP 1015 with mixing until clear.
- 2. Add BIO-TERGE® AS-40 HP and AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) with mixing. Continue mixing until homogenous and begin heating to 60 °C (140 °F).
- 3. Add STEPAN-MILD® L3. Mix until homogenous.
- 4. Add HALLSTAR® EGMS. Mix for at least 15-20 minutes until homogeneous. Begin cooling to room temperature.
- 5. In a separate vessel, mix together Phase 2 ingredients. Add Phase 2 ingredients to Phase 1 when the temperature is under 40 °C (104 °F) to avoid loss of fragrance.
- 6. Add Dow Corning® CE-1874. Mix until homogeneous.
- 7. Adjust pH with citric acid solution. Add preservative and dye.

*Note: When formulating with AMPHOSHOL® HCG-HP, a greater amount of Citric Acid may be needed to adjust the pH within the recommended range as noted, than when formulating with AMPHOSOL® HCG.

Physical **Properties**

Appearance at 25 °C pH, as is, at 25 °C

Off-white pearlescent viscous

liquid

Viscosity at 25 °C, cps (Brookfield LVT, spindle 3, speed 5.0 - 6.0 6 RPM) 5.00 - 4.000

Storage/ Stability 4 weeks at 5°C

4 weeks at 25°C

5 table

4 weeks at 45°C

Stable

Freeze/Thaw, 3 cycles

Stable

Passes

Instructions for Use

Apply to wet hair and work into a lather. Rinse well with water.

External Comment

Marketing Notes: Sulfate-free is defined as not containing Alcohol sulfate or Alcohol ether sulfate as per INCI nomenclature. This definition does not include the inorganic sulfates, e.g. Sodium sulfates, used as processing aids or formed as a residual, impurity or by-product. This formulation does not contain any sulfated surfactants, Diethanolamine (DEA) or Ethylene Oxide (EO). NINOL® CAA is a multifunctional secondary surfactant that is naturally-derived (derived from plant, animal or marine sources).

Registered Trademarks of Stepan Company BIO-TERGE® AMPHOSOL® STEPAN-MILD® NINOL®

For Additional Assistance For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe).

For ordering assistance, call our Account Service Department at 1-800-457-7673.

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Stepan Company Northfield, Illinois 60093 Telephone (847) 446-7500

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