Name | VOLUMIZING, REFRESHING SHAMPOO WITH STEPANBLEND® FSB-ND AND MENTHOL
---|---
No. | 1255
Description | With the anionic/amphoteric/nonionic surfactant blend STEPANBLEND® FSB-ND as chassis, this formulation also includes Pencare™ DP 1015, Dow Corning® 5-7113 Silicone Quat Microemulsion, and STEPAN-MILD® GCC for a high-foaming shampoo imparting noticeable hair volume benefits. Menthol and Peppermint Oil provide a refreshing, invigorating scent.
Formulation | INGREDIENTS: % by Weight Functionality
---|---|---
=== Phase 1 ===
Deionized Water | q.s. to 100 | Carrier
PenCare™ DP 1015 (Ingredion) - Starch | 0.10 | Conditioning Agent
Hydroxypropyltrimonium Chloride | 40.00 | Surfactant Blend
STEPANBLEND® FSB-ND | 0.25 | Cleansing/Skin Feel
STEPAN-MILD® GCC | 0.10 | Fragrance
dl-Menthol | 0.10 | Fragrance
Peppermint Oil | 0.50 | Viscosity Modifier
Sodium Chloride | 1.00 | Conditioning Agent
Dow Corning® 5-7113 Silicone Quat Microemulsion (Dow Corning) | 0.16 | Dye
Blue #1 (0.1% solution) | 0.04 | Preservative
Kathon™ CG (Dow Chemical) - CIT/MIT | | |
=== Phase 2 ===
Citric Acid (50% solution) | q.s. | pH Modifier
Sodium Hydroxide (50% solution) | q.s. | pH Modifier
Total | 100.00 |
Procedure | 1. Charge water into a clean, tared vessel and start moderate agitation.
2. Slowly disperse PenCare™ DP 1015. Mix for 20 minutes.
3. Add STEPANBLEND® FSB-ND and then STEPAN-MILD® GCC. Mix well.
4. Add dl-Menthol and Peppermint Oil. Mix for at least 20 minutes.
5. Add Sodium Chloride.
6. Add the Dow Corning® 5-7113 Silicone Quat Microemulsion. Mix well.
7. Add the Blue #1 (0.1% solution) and Kathon™ CG. Mix well.
8. Adjust pH to 5.5-6.5 with either Citric Acid or sodium hydroxide solutions to target pH. Adjust with additional sodium chloride for higher viscosity.

Physical Properties | Appearance, as is | Teal, translucent liquid
| Odor | Minty
| pH, as is | 5.5-6.5
| Viscosity at 20 ºC, cps (Brookfield LVT, spindle 3, speed 12) | 3,500-6,000

Storage/Stability | 25 ºC at 2 months | Stable
| 4 ºC at 2 months | Stable
45 ºC at 2 months  Stable
Freeze/thaw 3 cycles  Passes

Instructions for Use

Apply to wet hair and work into a lather. Rinse. Repeat as desired.

Stepan’s salon Half-head test (n=6) was completed against a commercial volumizing shampoo.

External Comment

Marketing Notes: BCI = 73. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com.

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

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