Name
No.
Description
Formulation
INGREDIENTS:
% by Weight
Functionality
Deionized Water
q.s. to 100.0
Carrier
UCARE Polymer JR-400 (Amerchol) Polyquaternium-10
0.3
Conditioning Agent
Glycerin
0.5
Humectant
STEPAN-MILD® PCL
36.7
Primary Surfactant
AMPHOSOL® HCG (or AMPHOSOL® HCG-HP)
9.6
Secondary Surfactant
Glycol Stearate
0.5
Pearlescent Agent
Panthenol (Roche)
0.2
Additive
Sodium Chloride
q.s.
Viscosity Builder
Citric Acid, 50% Solution
q.s.
 pH Adjuster
Sodium Hydroxide, 50% Solution
q.s.
 pH Adjuster
Preservative, Dye and Fragrance
q.s.
 Additive
Total
100.0
 Procedure
2. Slowly sprinkle in UCARE JR-400. Mix until completely dispersed.
3. Add Glycerin. Mix thoroughly.
4. Add STEPAN-MILD® PCL and AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), mixing until homogeneous.
6. Start cooling. At ambient temperature, adjust pH with Sodium Hydroxide or Citric Acid. Adjust viscosity with Sodium Chloride, if necessary.
8. Add Preservative, Dye, and Fragrance as desired.
*Note: When formulating with AMPHOSOL® HCG-HP, a greater amount of Citric Acid, 50% solution, may be needed to adjust the pH within the recommended range as noted, than when formulating with AMPHOSOL® HCG.
Physical
Properties
Appearance at 25ºC
Pearlescent liquid
pH, as is
6.5–7.0
Viscosity at 25ºC, cps
3,500-5,000
Storage/Stability
1 month at 25ºC
Stable
4 weeks at 45ºC
Stable
Instructions for Use
Apply shampoo to wet hair, lather, and then rinse.
External Comment
Marketing Notes: BCI = 85. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan’s BCI, visit...
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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