Name | BEARD CONDITIONER  
No. | 1148  
Description | Keep your beard feeling soft and touchable with this moisturizing beard conditioner that uses naturally-derived emollients and conditioning agents.

**Formulation**

**INGREDIENTS:**

--- **Phase 1** ---
- Deionized Water: q.s. to 100.00 Diluent
- Structure ZEA (Akzo NobelSurface Chemistry) Hydroxypropyl Starch Phosphate: 3.00 Rheology Modifier
- STEPANQUAT® ML: 2.00 Bodifying Agent
- CO-1695 (The Hallstar Company) Cetyl Alcohol: 2.00 Bodifying Agent
- CO-1895 (The Hallstar Company) Stearyl Alcohol: 2.00 Emollient
- STEPAN-MILD® L3: 2.00 Emollient

--- **Phase 2** ---
- Deionized Water: 5.00 Diluent
- Potassium Chloride: 0.50 Stabilizer

--- **Phase 3** ---
- Citric Acid, 50% solution: q.s. pH Adjuster

--- **Phase 4** ---
- Kathon CG (Dow DuPont, Inc.) Methylchloroisothiazolinone and Methylisothiazolinone: 0.05 Preservative

**Total** | 100.00

**Procedure**

1. In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water and begin mixing.
2. Sprinkle in Structure ZEA. Mix until dispersed.
3. Adjust pH to 4.0-4.54 using a 50% solution of Citric Acid.
5. Add STEPANQUAT® ML, Cetyl Alcohol, Stearyl Alcohol, STEPAN-MILD® L3. Mix for 30 minutes.
6. Cool to 113°F (45°C).
7. In a small beaker, dissolve Potassium Chloride in Deionized Water. Then add to the batch with mixing.
8. Adjust pH to 3.5–4.5 with a 50% solution of Citric Acid.
9. Cool to room temperature.
10. Add Kathon GC with mixing.

**Physical Properties**

- Appearance, as is: Off-white lotion
- pH at 25°C, as is: 3.5–4.5
- Viscosity at 25°C (RVT Sp. B at 10 rpm), cps: 10,000–12,000
- Storage: 4 weeks at 5°C

Stable
Stability
4 weeks at 25°C Stable
4 weeks at 40°C Stable
Freeze/Thaw 3 cycles Pass

Instructions for Use
After shampooing, massage conditioner through hair. Rinse thoroughly after 1 to 3 minutes.

Salon Half-Head Panel Study results indicate this formula outperformed the formulation without STEPAN-MILD® L3.

Marketing Notes: Naturally-derived is defined as surfactants sourced from plant, animal or marine feedstocks. BCI = 84. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan's BCI, visit www.stean.com.

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For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-33-4-76-505-100 (Europe).
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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