

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: % by Weight Functionality

=== Phase 1 ===

Deionized Water q.s. to 100.00 Diluent

Structure ZEA (Akzo NobelSurface Chemistry) Hydroxypropyl
3.00 Rheology Modifier
Starch Phosphate
2.00 Conditioning Agent
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

=== Phase 2 ===

Deionized Water 5.00 Diluent Potassium Chloride 5.00 Stabilizer

=== Phase 3 ===

Citric Acid, 50% solution q.s. pH Adjuster

=== Phase 4 ===

Kathon CG (Dow DuPont, Inc.) Methylchloroisothiazolinone 0.05 Preservative

and Methylisothiazolinone

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.
- 4. Heat to 158°F-167°F (70°C-75°C).
- 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.

External Comment

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.stepan.com.

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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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