

Name

STRUCTURED LIQUIDS TECHNOLOGY - ANTI-DANDRUFF SHAMPOO

No.

1269

Description

This shampoo utilizes Stepan's Structured Liquids Technology to suspend Zinc Pyrithione, an active that helps to treat dandruff by reducing visible flakes on the scalp. Naturally-derived* cleansers STEPANOL® AM-CIT/MIT and STEOL® CS-270 C gently wash away dirt and oils from the hair while STEPAN-MILD® GCC provides a soft, touchable feel. *The Stepan surfactants used in this formulation are greater than 50% BCI.

Formulation INGREDIENTS:

% by Weight Functionality

=== Phase 1 === STEPAN-MILD® GCC NINOL® CAA

10.0 Structure Agent, Emollient

2.0 Surfactant

=== Phase 2 ===

STEPANOL® AM-CIT/MIT 14.0 Surfactant STEOL® CS-270 C 1.0 Surfactant Fragrance 0.5 Fragrance

=== Phase 3 ===

Deionized Water q.s. to 100.0 Diluent Zinc Pyrithione (ZPT), 48% Dispersion 2.4 Active

=== Phase 4 ===

Kathon™ CG (The Dow Chemical Company) 0.05 Preservative q.s. Dye Methylchloroisothiazolinone and Methylisothiazolinone

q.s. pH Adjuster

Citric Acid, 50% aqueous solution

Total 100.0

Procedure

1. In a suitable vessel equipped with heating and agitation capabilities, charge NINOL® CAA and STEPAN-MILD® GCC with mixing at 45 °C (113 °F)

mix until homogenous and avoid aeration. 2. Add STEPANOL® AM-CIT/MIT, STEOL® CS-270 C and Fragrance (if desired) with agitation. Mix until homogenous. Avoid aeration.

- 3. Add Deionized Water and Zinc Pyrithione to the batch under high shear mixing a homogenizer is recommended. Mix until homogeneous, avoid aeration.
- 4. Adjust pH with Citric Acid, 50% aqueous solution.
- 5. Add Kathon™ CG.
- 6. Add Dye as desired

Physical **Properties** Appearance at 25 °C Opaque viscous liquid pH, as is, at 25 °C 5 - 6

Viscosity at 25 °C (RVT A, 10 rpm, 60 sec), cps 3,000 - 7,000

Storage/ Stability

4 weeks at 5 °C Stable 4 weeks at 25 °C Stable 4 weeks at 45 °C Freeze/Thaw 3 cycles

Instructions for Use

For maximum dandruff control, use every time you shampoo. Wet hair, massage onto scalp and rinse. Repeat if desired.

Stable

Passes

Based on Stepan's in-house salon evaluation, this formulation met the performance of the market leader. Foam feel and foam volume were evaluated.

External Comment

Marketing Notes: This formulation is based on Stepan patented technology. This is a starting formulation only. No efficacy data will be provided by Stepan. Stepan has developed this formulation using Zinc Pyrithione at the level noted in the FDA Monograph. For external use only. Keep this and all drugs out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away. Avoid contact with eyes. If eye contact occurs, rinse eyes thoroughly with water. BCI = 97. 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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STEPAN-MILD® STEPANOL®

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

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