

Name | SULFATE-FREE CONDITIONING ANTI-DANDRUFF SHAMPOO

No. 1210

Description This sulfate-free, amide-free and Zinc Pyrithione-containing formulation provides good foam, combability, and conditioning properties.

Formulation INGREDIENTS: % by Weight Functionality

Deionized Water q.s. to 100.00 Diluent Carbopol ETD 2020 Polymer 0.80 Suspen Sodium Hydroxide - 50% Solution 0.07 pH Adju

STEPAN-MILD® PCL AMPHOSOL® CS-50 STEPAN-MILD® L3

N-Hance[™] 3196 Cationic Guar Dow Corning® 2-1491 Emulsion Zinc Pyrithione (50% active) Preservatives, Fragrance, Dye 0.80 Suspending Agent
0.07 pH Adjuster
55.50 Primary Surfactant
5.50 Secondary Surfactant
0.50 Conditioning Agent
0.15 Conditioning Agent
3.30 Conditioning Agent
2.00 Antidandruff Agent
q.s. Fragrance, Preservative

Opaque, free-flowing liquid

5.0 - 6.5

Total 100.00

Procedure

- 1. Charge Deionized Water. Activate mixing from moderate to high speed, taking precautions to avoid splashing and aeration. If necessary, mild heating may be employed to accelerate ingredient mixing.
- 2. Slowly disperse Carbopol ETD 2020 Polymer into the vortex. Check for any clumping before adding additional polymer.
- 3. With good agitation, continue mixing 20–30 minutes until the viscosity of the solution increases. No particles should be present.
- 4. Add the Sodium Hydroxide 50% Solution. The viscosity of the solution will increase. Continue mixing at low-to-moderate speed.
- 5. Add STEPAN MILD® PCL, mixing until homogenous while avoiding aeration.
- 6. Add AMPHOSOL® CS-50. Mix until homogenous. Avoid aeration.
- 7. In a separate small container, weigh the N-Hance™ 3196 Cationic Guar. Then add STEPAN-MILD® L3, mixing until combined. When thoroughly mixed, add to the batch.
- 8. Continue mixing for approximately 30 minutes.
- 9. Add Zinc Pyrithione and continue mixing.
- 10. Add Dow Corning® 2-1491 Emulsion, mixing for another 20 minutes.
- 11. Use Sodium Hydroxide 50% Solution to adjust pH to 5.5-6.5.
- 12. Add Preservatives, Fragrance, and Dye. Continue mixing another 20 minutes until homogenous.

Physical Appearance at 25°C pH, as is

Viscosity at 25°C, cps 4,000 – 8,000

Storage/ Stability Freeze/thaw, 3 cycles Pass 3 months at 50°C Pass 3 months at 40°C Pass 3 months at 4°C Pass

Instructions for Use

Wet hair. Massage into scalp. Lather and then rinse. Repeat as desired.

External Comment

Marketing Notes: Sulfate free is defined by Stepan as containing no Alcohol Sulfates and no Alcohol Ether Sulfates as per the INCI Nomenclature.

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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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