Name  
No.  
1264  
Description  
This silicone-free hair conditioner contains natural oil and improves the gloss and texture of the hair. The incorporation of STEPAN-MILD® L3 softens without the need for synthetic silicones, while AMMONYX® CETAC-30 and STEPANQUAT® ML condition and impart static control.  
Formulation  
INGREDIENTS:  
% by Weight  
Functionality  
== Phase 1 ==  
Deionized Water  
q.s. to 100.0  
Carrier  
== Phase 2 ==  
STEPANQUAT® ML  
1.0  
Conditioning Agent  
AMMONYX® CETAC-30  
3.3  
Conditioning Agent  
HALLSTAR® CO-1695 (Hallstar) Cetyl Alcohol  
2.0  
Bodifying Agent  
HALLSTAR® CO-1895 (Hallstar) Stearyl Alcohol  
2.0  
Bodifying Agent  
BRIJ S20-SO-(AP) (Croda) Steareth-20  
0.5  
Emulsifier  
STEPAN-MILD® L3  
2.0  
Emollient  
Moringa Oil (Princeton Chemicals, Inc.)  
0.1  
Emollient  
== Phase 3 ==  
Fragrance #6117451 (Bell Flavors & Fragrances)  
0.5  
Fragrance  
Citric Acid, 50% Solution  
q.s.  
P.H Adjuster  
Preservative  
q.s.  
Preservative  
Dye  
q.s.  
Dye  
Total  
100.0  
Procedure  
1. In a vessel equipped with heating and agitation capabilities, charge Deionized Water.  
2. Heat to 70 ºC-75 ºC (158 ºF-167 ºF) with mixing.  
3. Add Phase 2 ingredients with continuous mixing. Mix until homogenous. Continue to mix for 30 minutes.  
4. Cool batch slowly down to 40ºC (104 ºF) with mixing.  
5. Add Fragrance.  
6. Adjust pH to 3.5-4.0 with 50% Citric Acid Solution.  
7. Add dye and preservative.  
Physical Properties  
Appearance at 25 ºC  
White, viscous, lotion-like liquid  
pH, as-is  
3.5-4.0  
Viscosity at 25 ºC, cps  
8-10,000  
Storage/ 
Stability  
4 weeks at 5ºC  
Stable  
4 weeks at 25ºC  
Stable  
4 weeks at 45ºC  
Stable  
Freeze/Thaw, 3 cycles  
Passes  
Instructions for Use  
After shampooing, massage conditioner through wet hair. Rinse thoroughly after 1 to 3 minutes.
Marketing Notes: This formulation does not contain any silicone. BCI = 43. 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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STEPANQUAT®
AMMONYX®
STEPAN-MILD®

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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