



Formulation

| | | |
|---------------------|--|--|
| Name | DAILY SMOOTHING CONDITIONER | |
| No. | 1297 | |
| Description | A daily use, smoothing conditioner for normal to fine hair. This simple yet powerful silicone-free formula conditions and smooths hair strands to make every day a good hair day. | |
| Formulation | INGREDIENTS: | <u>% by Weight</u> <u>Functionality</u> |
| | === Phase 1 === Deionized Water Structure® Solance (Akzo Nobel N.V.) | q.s. to 100.00 Carrier 3.00 Thickener |
| | === Phase 2 === STEPANQUAT® HELIA HallStar® CO-1695 Cetearyl Alcohol NF (The HallStar Company) STEPAN-MILD® L3 | 1.75 Conditioning Agent 3.50 Emulsifier 0.50 Emollient, Conditioning Agent |
| | === Phase 3 === Deionized Water Potassium Chloride | 5.00 Diluent 0.50 Opacifier, Thickener |
| | === Phase 4 === Citric Acid, 50% Solution Sodium Hydroxide, 50% Solution Fragrance, Preservative | q.s. pH Modifier q.s. pH Modifier q.s. Additives |
| | Total | 100.00 |
| Procedure | <ol style="list-style-type: none"> 1. Charge Deionized Water to a container with mixing and heating properties. Begin to mix. 2. Charge Structure® Solance and mix until homogenous. Heat to 70-75°C (158-167°F). 3. Add STEPANQUAT® HELIA and mix until homogenous. 4. Add HallStar® CO-1695 Cetearyl Alcohol NF and STEPAN-MILD® L3. Mix for 30 minutes. 5. While mixing, cool to 45°C (113°F). 6. In a separate beaker, dissolve Potassium Chloride in Deionized Water. Add to batch with mixing. 7. Adjust the pH for a target of 3.5-4.5 with Citric Acid or Sodium Hydroxide solutions. 8. While mixing, cool to room temperature. 9. Add Fragrance and Preservative, as desired. | |
| Physical Properties | Appearance, as is pH, as is Viscosity at 25°C, LVT #3 at 12 rpm (cps) | Off white viscous lotion 3.5-4.5 8,000-12,000 |
| Storage/Stability | 4 weeks at 5°C 4 weeks at 25°C 4 weeks at 45°C Freeze/Thaw 3 cycles | Stable Stable Stable Pass |
| Instructions | After shampooing, apply to wet hair and work through with fingers. Rinse thoroughly. | |

for Use

External
Comment

Marketing Notes: BCI = 91. 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.

Registered
Trademarks
of Stepan
Company

STEPANQUAT®
STEPAN-MILD®

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.

The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents. **STEPAN COMPANY MAKES NO PRODUCT WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, EXPRESS OR IMPLIED, AND NO OTHER WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE, INCLUDING AS TO INFORMATION REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, OR ADEQUACY.** Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party for any direct, indirect, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, furnishing, use, or reliance upon information provided herein. The vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.

Stepan 

Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

Revision Date: 02/06/2019 Publication Date: 02/06/2019 © 2019, Stepan Company. All rights reserved.