

## Shampoo Ingredients

### Deposition and Conditioning:

#### High Conditioning

N-DurHance™ A-1000  
 N-DurHance™ AA2000  
 N-Hance SP 100  
 N-Hance 4572  
 N-Hance BF 1  
 N-Hance 3215

#### Medium Conditioning

N-Hance 3196  
 N-Hance BF 13  
 N-Hance CG 13

#### Light Conditioning

N-Hance CCG45  
 N-Hance 3000/3299  
 N-Hance C261  
 AquaCat 518  
 AquaCat PF 618

### Combability, Softness and Conditioning:

BELSIL ADM 8301 E

Conditioneze™ 7

DM 6101 E

BELSIL ADM 8105 E

Conditioneze™ 22

ADM 6300 E

DM 3560 VP

Conditioneze™ NT 20

ADM 9000 E

DM 3112 VP

### Rheology and Viscosity Modifiers:

SurfaThix N

Natrosol™ Plus 330

PrimaFlo

Benecel™ HPMC

### Functionality:

Avenacare—Strengthening

BELSIL™ PF 200—Shine

Kostol STMC—Anti-Static & Condition

Silk, Soy, Wheat & Keratin Protein—Overall Healthy Hair

Liquaguard S-1—Preservative

ChromoHance 113—Color Fade Protection

Sumicos & Prestige— Visual Enhancement

## Sulfate Free Shampoo - 03-068

Ingredients:	% W/W	Supplier
<b>Phase A</b>		
Deionized Water .....	q.s.	
Acrylamidopropyl Trimonium Chloride/Acrylamide Copolymer (N-Hance™ SP-100) .....	0.40	<b>BSI - Ashland</b>
<b>Phase B</b>		
Cocamidopropyl Hydroxysultaine (Mirataine® CBS) .....	6.00	Solvay
Water (and) Sodium Lauroyl Methyl Isethionate (and) Cocamidopropyl Betaine (and) Sodium Cocoyl Isethionate (and) Sodium Methyl Oleoyl Taurate (and) Trisodium Ethylenediamine Disuccinate (Iselux® SFS) .....	27.50	Innospec
<b>Phase C</b>		
Polyquaternium-7 (Conditioneze™ 7MP) .....	0.40	<b>BSI - Ashland</b>
Amodimethicone/Morpholinomethyl Silsesquioxane (and) Trideceth-5 (and) Glycerin (BELSIL® ADM 8301 E).....	4.00	<b>BSI - Wacker</b>
Hydrolyzed Wheat Protein (Wheat PL) .....	1.00	<b>BSI</b>
Sodium Chloride (20% Salt Solution) .....	0.20	
Methylchloroisothiazolinone (and) Methylisothiazolinone (LiquaGard™ S-1) .....	0.07	<b>BSI - Ashland</b>
Citric Acid (20% Citric Acid Solution) .....	q.s.	

### Procedure:

- **Phase A** - Add water to main container and begin moderate to high propeller agitation. Sprinkle in N-Hance™ SP-100 and mix well until fully hydrated.
- **Phase B** - Add Phase B surfactants individually, mixing well after each addition.
- **Phase C** - Add Phase C ingredients individually, mixing well after each addition. Lower pH to 5.5 - 6.0 with citric acid solution.

### About the Ingredients:

**N-Hance™ SP-100:** New, substantive conditioning polymer designed for rinse-off surfactant systems to reduce tangling and to improve wet and dry comb properties of hair after shampooing. N-Hance™ SP-100 is especially useful for delivering a highly conditioned feel to wet and dry hair. This polymer also helps deposit silicones and natural oils to the hair resulting in a softer, silkier feel.

**BELSIL® ADM 8301 E:** An excellent conditioning agent in hair care applications. It provides a soft, silky touch and strongly reduces dry and wet combing forces. BELSIL® ADM 8301 E also helps reduce color fade of colored hair.

Brenntag Specialties, Inc. (BSI) makes no warranty, express or implied, including any warranty of merchantability, non-infringement or fitness for a particular purpose, concerning the composition or use of these formulas. Users assume all risks and responsibility resulting from such use and the handling, use, storage, transportation, sale or resale of any products made therefrom. BSI assumes no liabilities or obligations for the technical content found herein regarding formulas or the results obtained therefrom. Users rely on this information at their sole risk and should make their own, independent determination as to the suitability of any product for a particular use. User waives all claims against BSI for damages, including consequential and punitive damages, even if BSI has been advised or has notice of the possibility of such damages, and User agrees to defend and indemnify BSI against any loss, damages, liability, cost and expense relating to the use of the formulas and/or the handling, use, storage, transportation, sale or resale of any products made therefrom. The information provided does not absolve the User from the obligation of investigating the possibility of infringement of third party rights. For more information or assistance, contact Technical Services at [BSI\\_regulatory\\_dept@brenntag.com](mailto:BSI_regulatory_dept@brenntag.com)