

moisturizing conditioner for dry/damaged hair

formula #: 11182-23

material #:

ingredients (trade name INCI name)		%w/w	supplier
phase a			
Deionized Water	Aqua (water)	86.5000	Local
Natrosol™ 250HHR CS HEC	Hydroxyethylcellulose	0.8000	Ashland
Glycerin	Glycerin	1.0000	Local
Versene* Na2 crystals	Disodium EDTA	0.1000	Dow Chemical
phase b			
Rita SA	Stearyl Alcohol	2.0000	Rita Corporation
ProLipid™ 161 lamellar gel	Behenyl Alcohol (and) Cetearyl Alcohol (and) Hydroxyethyl Cetearamidopropylidimonium Chloride	5.0000	Ashland
phase c			
Gafquat™ 755N polymer	Polyquaternium-11	2.0000	Ashland
Belsil* CM 040	Cyclopentasiloxane	2.0000	Wacker
phase d			
Liquid Germall™ Plus preservative	Propylene Glycol (and) Diazolidinyl Urea (and) Iodopropynyl Butylcarbamate	0.5000	Ashland
Citric Acid (25% Aq. Solution)	Citric Acid	0.1000	Local
total		100.00	

procedure

1. Disperse the Hydroxyethylcellulose into the water with propeller agitation. When dispersed, heat to 70C and maintain temperature for 30 minutes until clear.
2. Separately heat ingredients in phase b to 70C; add to phase a, maintaining temperature for 30 minutes.
3. Cool slowly to 45C; add phase c ingredients.
4. Continue cooling; add phase d ingredients below 40C.
5. Adjust pH to 3.5+/-0.2 citric acid solution as needed.

typical properties

description: White, glossy, cream

pH: 3.5+/-0.2

viscosity: 32,000 cP (Brookfield RVT DV-II, Helipath, Sp# T-C, 5 rpm)

stability/challenge information: This formula passed standard stability protocol and micro challenge testing. The preservative system, however, has not been optimized to its lowest effective level.

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