

deep conditioner for hair and scalp

formula #: 11185-76-2

material #:

ingredients (trade name INCI name)		%w/w	supplier
phase a			
Deionized Water	Aqua (water)	69.1900	Local
Natrosol™ 250HHR CS HEC	Hydroxyethylcellulose	0.7500	Ashland
Dissolvine* NA-2S	Disodium EDTA	0.2000	Akzo Nobel
Aculyn* 44	PEG-150/Decyl Alcohol/SMDI Copolymer	2.1400	Dow Chemical
Varisoft* TA 100	Distearyldimonium Chloride	0.5000	Evonik
phase b			
Rita CA	Cetyl Alcohol	1.0000	Rita Corporation
Rita SA	Stearyl Alcohol	0.7500	Rita Corporation
ProLipid™ 161 lamellar gel	Behenyl Alcohol (and) Cetearyl Alcohol (and) Hydroxyethyl Cetearamidopropylidimonium Chloride	3.0000	Ashland
Jeecol SA-20	Steareth-20	0.4000	Jeen International
Jeecol SA 2	Steareth-2	0.6000	Jeen International
Ceraphyl™ 424 ester	Myristyl Myristate (and) Myristyl Laurate	1.0000	Ashland
Varisoft* 432 CG	Dicetyldimonium Chloride	1.4700	Evonik
Ceraphyl™ 494 ester	Isocetyl Stearate	1.0000	Ashland
phase c			
Deionized Water	Aqua (water)	12.5000	Local
Styleze™ W-20 polymer	Polyquaternium-55	2.5000	Ashland
Wheat-Tein* NL	Hydrolyzed Wheat Protein	1.0000	Tri-K industries
Belsil* CM 3092	Cyclopentasiloxane (and) Dimethiconol	1.0000	Wacker
phase d			
Captivates™ HC0004 encapsulate	Aqua (Water) (and) Mentha Piperita (Peppermint) Oil (and) Helianthus Annuus (Sunflower) Seed Oil (and) Gelatin (and) Acacia Senegal Gum (and) Mica (and) CI 77891 (Titanium Dioxide) (and) Cellulose Gum	0.2500	Ashland
Captivates™ HC0005 encapsulate	Dimethicone (and) Aqua (and) Gelatin (and) Acacia Senegal Gum (and) Mica (and) CI 77891 (and) CI 73360 (Red 30) (and) Tin Oxide (and) Xanthan Gum (and) Phenoxyethanol (and) Benzoic Acid (and) Dehydroacetic Acid	0.2500	Ashland
Liquid Germall™ Plus preservative	Propylene Glycol (and) Diazolidinyl Urea (and) Iodopropynyl Butylcarbamate	0.5000	Ashland
total		100.00	

procedure

1. phase a: Change container with water. Start vigorous propeller mixing. Sprinkle HEC into the vortex while heating to 75C. Mix until clear.
2. Add the Disodium EDTA to batch. Add PEG-150 Decyl Alcohol/SMDI Copolymer to batch, mixing until homogeneous.
3. Add the Distearyldimonium Chloride. Mix until uniform.
4. phase b: Add all phase b ingredients to a separate container. Heat to 75C while mixing.
5. Switch main batch to homogenizer before combining phases. When phase b is uniform, add to main batch with

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moderate homogenizer mixing.

6. Homo-mix with good agitation while maintaining temperature for 15 minutes. Remove from heat.

7. When batch is at 65C, switch to moderate sweep.

8. phase c: Pre-blend Styleze W-20 into the water, mix thoroughly. Add to batch.

9. Add the remaining phase c ingredients, mixing until uniform between each addition.

10. phase d: Continue to cool batch to 40C using slow sweep. Add phase d ingredients mixing thoroughly.

11. Continue slow sweep to below 30C. Replace water lost in processing and mix thoroughly.

typical properties

description: White, soft cream

pH: 4.5+/-0.2

viscosity: 65,000 cP (RV-TC @ 5rpm)

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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