

nourishing hair mask

formula #: Z309-30

material #:

ingredients (trade name INCI name)		%w/w	supplier
phase a			
Deionized Water	Aqua (water)	80.7300	Local
Dissolvine* NA	Disodium EDTA	0.1000	Akzo Nobel
Glycerin	Glycerin	2.0000	Local
Natrosol™ 250HHR PC HEC	Hydroxyethylcellulose	0.6000	Ashland
N-Hance™ 4572 conditioning polymer	Guar Hydroxypropyltrimonium Chloride (and) Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer	0.2000	Ashland
Citric Acid	Citric Acid	0.0200	Local
phase b			
Dehyquart* A-CA	Cetrimonium Chloride	5.0000	BASF
ProLipid™ 161 lamellar gel	Behenyl Alcohol (and) Cetearyl Alcohol (and) Hydroxyethyl Cetearamidopropyldimonium Chloride	2.0000	Ashland
Kalcol* 8098	Stearyl Alcohol	5.0000	Kao Chemicals
phase c			
Xiameter* MEM-1785 Emulsion	Dimethiconol (and) TEA-Dodecylbenzenesulfonate	1.6000	Dow Chemical
Xiameter* PMX 0245	Cyclopentasiloxane	1.7000	Dow Chemical
Citrus Sparkle & Peach 221	Fragrance	0.5000	IFF
Optiphen™ BSB-W preservative	Benzyl Alcohol (and) Aqua (Water) (and) Sodium Benzoate (and) Potassium Sorbate	0.5000	Ashland
phase d			
Citric Acid	Citric Acid	0.0500	Local
total		100.00	

procedure

phase a: Disperse the Natrosol in the cold water, EDTA and Glycerin and heat up to 75C.

White heating, add the N-Hance 4572 and adjust the pH to below 6.

phase b: Add the ingredients to Phase A, homogenize at 75C and cool to 40C.

phase c: Add in order and cool further below 30C.

phase d: Adjust pH to 4.0-4.5.

typical properties

description: Viscous Cream

pH: 4.0-4.5

viscosity: 60,000mPa.s (Brookfield LVT Spindle #3, 12rpm, 1 min@ 25C)

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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