ASHLAND

Hair Care Formulations

Ashland Specialty Ingredients
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Intensity Nourishing Hair Mask

Formula #. Z309-86D

Ingredients (Trade name/INCI/)		% w/w	Supplier
Phase A			
Deionized water	Aqua	ad 100%	Local
Dissolvine® Na	Disodium EDTA	0.10	AkzoNobel
Natrosol™Plus 330 CS HMHEC	Cetyl Hydroxyethylcellulose	0.15	**Ashland**
Glycerin	Glycerin	2.00	Local
Phase B			
Varisoft® 300 (30%)	Cetrimonium Chloride	5.00	Evonik
Prolipid™ 161 lamellar gel	Behenyl Alcohol (and) Cetearyl Alcohol (and) Hydroxyethyl Cetearylamidopropyldimonium Chloride	2.50	**Ashland**
Kalcol®6850	Cetearyl Alcohol	6.00	Kao
Glyceryl Stearate	Glyceryl Stearate	1.00	Local
Phase C			
N-Durhance™A1000 polymer	Polyacrylamidopropyltrimonium Chloride	5.00	**Ashland**
Xiameter® MEM 1785	Dimethiconol (and) TEA-Dodecylbenzenesulfonate	2.50	Xiameter
Belsil® ADM 8301E	Amodimethicone/Morpholinomethyl Silsesquioxane Copolymer (and) Trideceth-5 (and) Glycerin	2.50	Wacker
Citrus Sparkle & Peach 221	Parfum	0.03	IFF
Optiphen™ BSB-W preservative	Benzyl Alcohol (and) Aqua (and) Sodium Benzoate (and) Potassium Sorbate	0.30	**Ashland**
Phase D			
Citric Acid	Citric Acid	To pH 4.0 – 4.5	Local

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Procedure:

1. Phase A: Disperse Natrosol Plus 330 CS in cold water under agitation, add EDTA and Glycerin and heat up to 75°
2. Phase B: Add the ingredients in order to phase A, homogenize at 75° with rotor/stator mixer for 5 min or until a smooth surface and cool to 45°C
3. Phase C: Add in order under good agitation and cool further below 30°C
4. Phase D: Adjust pH to 4.0 – 4.5

Typical Properties

Appearance:	**Viscous white shiny cream**
pH:	**4.00 – 4.50**
Viscosity	**50,000 – 90,000 mPas.s** Brookfield LVT Spindle #4, 12 RPM, 1 min @ 25 °C

This formula has passed 3 M stability test at 45°C and 28-day double challenge efficacy test. However, the preservative system has not been optimized to its lowest effective level.