

Leverkusen, 21.03.2014

**Cosmetic Formulation: Conditioner "Sleeping Beauty" for thermal protection and shine with Silsoft AX-E**  
MMMD499

	Weight-%	INCI	Ingredient / Trade name	Function
A	1,3	Behentrimonium Chloride	Genamin KDMP (80%) <sup>2</sup>	Conditioning aid
	2,8	Myristylalcohol	Lanette 14 <sup>3</sup>	Conditioning aid
	5,4	Cetylalcohol	Lanette 16 <sup>3</sup>	Conditioning aid
B	0,6	Citric Acid	Citronensäure Monohydrat	pH
	ad 100	Aqua	Water	Solvent
C	0,1	Hydrolyzed Keratin	Crotein K <sup>4</sup>	Protein
	2	Bis-Cetearyl Amodimethicone (and) Cetearth-7 (and) Cetearth-25	Silsoft AX-E (40%) <sup>1</sup>	Conditioning aid
	1	Phenyltrimethicone	SF1550 <sup>1</sup>	Shine enhancer
	1	Synthetic Fluorphlogopite (and) Titanium Dioxide	SunSine Super Gold <sup>5</sup>	Shine enhancer
D	0,3	Parfum	Fragrance <sup>6</sup>	Perfume
	0,5	Phenoxyethanol (and) Ethylhexylglycerin	Euxyl PE 9010 <sup>7</sup>	Preservative

**Procedure:**

- 1) Heat A @ 80°C
- 2) In a separate container heat B @70°C
- 3) Combine Phase A and B under stirring, let cool down to 55°C homogenize with UltraThurax for 2min (~9500 rpm). Cool down to RT under stirring.
- 4) Add all ingredients of C, one at a time.
- 5) Add perfume and preservatives as desired.
- 6) Adjust pH to 5,5-6 with liquid solution of citric acid

## Suppliers:

- <sup>1</sup> Momentive Performance Materials GmbH
- <sup>2</sup> Clariant
- <sup>3</sup> BASF
- <sup>4</sup> Croda
- <sup>5</sup> Sun Chemical
- <sup>6</sup> Symrise
- <sup>7</sup> Schülke & Mayr

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