

# daily use conditioner for damaged hair

formula #: 11182-21

material #:

ingredients (trade name   INCI name)		%w/w	supplier
phase a			
Deionized Water	Aqua (water)	87.0500	Local
Versene* Na2 crystals	Disodium EDTA	0.1000	Dow Chemical
phase b			
ProLipid™ 161 lamellar gel	Behenyl Alcohol (and) Cetearyl Alcohol (and) Hydroxyethyl Cetearamidopropylidimonium Chloride	2.5000	Ashland
Tego* Amid S 18	Stearamidopropyl dimethylamine	1.0000	Evonik
Lanette* O	Cetearyl Alcohol	3.0000	BASF
Arlacel* 165	Glyceryl Stearate (and) PEG-100 Stearate	1.5000	Croda
phase c			
Styleze™ W-20 polymer	Polyquaternium-55	2.0000	Ashland
phase d			
Belsil* CM 040	Cyclopentasiloxane	2.0000	Wacker
Liquid Germall™ Plus preservative	Propylene Glycol (and) Diazolidinyl Urea (and) Iodopropynyl Butylcarbamate	0.5000	Ashland
Citric Acid - 50% Solution	Citric Acid	0.3500	Local
total		100.00	

## procedure

1. Prepare phase a by adding each ingredient. Mix well and heat to 80C.
2. Prepare phase b by adding each ingredient. Mix well and heat to 80C.
3. Add phase b to phase a; mix for 30 minutes at 80C, then cool to 60C.
4. Add phase c; mix well and cool to 45C.
5. Add each ingredient in phase d in order listed with sufficient mixing between each addition.
6. Add Citric Acid solution to adjust pH to 4.5.

## typical properties

description: white cream

pH: 4.5+/-0.2

viscosity: 60,000 cP (Brookfield RVT DV-II, Helipath, Sp# T-D, 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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