

# Eversmooth™ LC-HC01

## —Excellent hair conditioning agent

April, 2013

### Product name: Liquid Crystal Hair Conditioning agent

#### INCI Name / CAS NO.

Behenamidopropyl Dimethylamine, 60270-33-9

Stearamidopropyl Dimethylamine, 7651-02-7

Cetearyl Alcohol, 8005-44-5

#### Product Features:

**Liquid crystal structure**—highly cost-effective hair care end-product could be easily obtained with high conditioning efficiency;

**Incorporating characteristics of non-ionic and cationic surfactants** — it exhibits non-ionic surfactant characteristics in neutral or alkaline conditions while exhibits cationic surfactant characteristics in acid condition;

**Outstanding hair repairing agent**—applied in hair conditioner or shampoo, it will contribute good thickening, absorbability and conditioning;

**Excellent color protection effect**—enhance the color intensity and color uniformity and repair the damage caused by hair dye;

**Excellent hair conditioning agent**—compared with other conditioning agent, this product performs better conditioning function, effectively improves combing effect and hair softness, reduces hair knotting and provides better sensory benefits.

#### Formula Guidelines

##### Hair conditioner

- ① Acid water preparation: add lactic acid into water and heat to 70 °C. (The pH of the finished product should be 4.0-4.3, the use level of lactic acid is increased with the increasing usage of LC-HC01.)
- ② Melting of Eversmooth™ LC-HC01: heat Eversmooth™ LC-HC01 to 70 °C while mixing until completely melted;
- ③ Mixing: add warmed acid water into warmed Eversmooth™ LC-HC01 while mixing, turn speed high or homogenize for 10min-15min after combining, then cool off the batch while mixing.

##### Shampoo preparation

Prepare in accordance with the methods above, then add them into the shampoo formula when the temperature cools to 50°C, product with liquid crystal structure will be prepared.

#### Applications:

Hair conditioners, hair masks, treatments, hair dyes/colors, etc.

Shampoo for colored hair, color protection shampoo, hair coloring shampoo, etc.



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### Usage Level

Conditioners: 2.0%-14.0%

Shampoos: 1.0%-4.0%

### Technical Data

Item	Specification
Appearance (25°C)	Pale yellow solid
Odor (25°C)	Characteristic
Solid content (105°C, 2h, %)	≥93.0

### Note:

- ① Storage: store in cool and dry place at the room temperature;
- ② Retest date (tentative): 12 months;
- ③ The melting point of this product is 40°C-50°C, and it will melt or clot when the temperature is high.