

## ACAC FORMULATION

Oct.2014

### Facial Wash<Milk> ACAC-FW-131219-3

**AMILITE GCK-12H** is used as primary surfactant in this SLES-free mild cleansing milk, which leaves refreshing and non-drying skin feel after wash .

	(wt%)	
A WATER	balance	
ACRYLATES COPOLYMER*1	5.0	Thickening polymer
B PROPANEDIOL*2	15.0	Humectant
GLYCERIN	20.0	Humectant
TITANIUM DIOXIDE*3	0.5	Opacifier & Foam speed
<b>AMILITE GCK-12H(30%)</b>	30.0	Primary surfactant
COCAMIDOPROPYL BETAINE(30%)*4	10.0	Secondary surfactant
COCAMIDE DEA*5	2.0	Foam booster
LAURYL GLUCOSIDE(50%)*6	3.0	Viscosity modifier
C GLYCOL DISTEARATE*7	2.0	Pearlizing agent
D SODIUM CHLORIDE	0.4	Viscosity modifier
E POLYQUATERNIUM-7*8	0.5	Sensory modifier
F PRESERVATIVE	q.s.	
G CITRIC ACID (50% aq )to PH 6.5 TO 7.0 **	0.70	pH adjuster

100.0

- 1 Mix part A at room temperature.
- 2 Mix part B at room temperature.
- 3 Add par A to B at room temperature.
- 4 Add part C at around 60-70 °C with stirring.
- 5 Add part D and E to part ABC at around 50-60 °C.
- 6 Cool down to room temperature and add part F and G.
- 7 Keep stirring gently until uniform.

- \* 1 CARBOPOL AQUA SF-1 LUBRIZOL
- \* 2 ZMEA DUPONT TATE & LYLE
- \* 3 TIPAQUE CR-50 ISHIHARA SANGYO KAISHA
- \* 4 DEHYTON K BASF
- \* 5 COMPERLAN KD BASF
- \* 6 PLANTACARE 1200UP BASF
- \* 7 CUTINA AGST BASF
- \* 8 DENASIL PQ-7 SNF CHINA

\*\* The level of citric acid is presented as a rough guide

pH 6.7  
Viscosity 5,300-5,700 mPa.s(64, 30rpm, 30sec.,25°C.)  
Stability 1, 25, 45, 48°C, Cycle(-5<=> 40degC) for 3 months

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