

CATIONIC LOTION MAKE-UP WITH SUNSCREEN

RAW MATERIALS % By Weight

Phase A:	
Laureth-23 (Brij 35 SP)	0.50
Glyceryl Stearate (Cerasynt SD)	5.00
Dimethicone (Dow Corning 200 Fluid)	1.00
Octyldodecyl Stearoyl Stearate (Ceraphyl 847)	4.00
Cetyl Alcohol	1.00
Octyl Dimethyl PABA (Escalol 507)	7.00
Benzophenone-3 (Spectra-Sorb UV-9)	3.00

Phase B-1:	
Water, Deionized	58.25
Hydroxyethylcellulose (Natrosol 250HR)	0.50

Phase B-2:	
Diethylaminoethyl Stearate (Cerasynt 303)	1.00
Lactic Acid (88%)	0.75
Glycerin	2.50

Phase B-3:	
Pigment Blend No. B73-9-1	13.00

Phase B-4:	
Quaternium-26 (Ceraphyl 65)	1.50

Phase C:	
Germaben II	1.00

Procedure:

Heat Phase A to 80C and hold at 80C for addition to Phase B. Predisperse the Natrosol in water and heat Phase B-1 to 80C. Then add the ingredients of Phase B-2, one at a time in the order written, to Phase B-1. Mix until smooth and sprinkle in Phase B-3, then mix for fifteen minutes. Keeping all at 80C, add Phase B-4 followed immediately by the addition of Phase A to minimize any foaming or aeration. Mix five minutes, holding the temperature at 80C, then cool and continue to mix to 25-28C.

Pigment Blend No. B73-9-1:	
TiO ₂ 3328	71.58
Iron Oxide Red 7054	4.21
Talc 141	10.53
Iron Oxide Black C33-134	1.58
Iron Oxide Yellow 3170	12.10

SOURCE: Sutton Laboratories, Inc.: Cosmetic Formulary:
Suggested Formulation