

SAMPLE FORMULA

Broad Spectrum Sunscreen SPF-45

FORMULATION: **% WT.**

Step 1

A. VOLASIL® 995 <i>Cyclopentasiloxane</i>	CHEMSIL SILICONES, INC.	15.00
B. DIMETHISIL DM-6 <i>Dimethicone</i>	CHEMSIL SILICONES, INC.	9.00
C. EMULSIL® S-399 <i>Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone</i>	CHEMSIL SILICONES, INC.	3.50
D. CHEMSIL K-13 <i>Cyclopentasiloxane and Dimethicone/vinyl Dimethicone Crosspolymer</i>	CHEMSIL SILICONES, INC.	3.50
E. CHEMSIL K-12 <i>Dimethicone and dimethicone PEG-10/15 Crosspolymer</i>	CHEMSIL SILICONES, INC.	3.00
F. Capryloyl Glycine (Win Honor Bioscience)		0.50
G. CHEMSIL K-73 <i>Cyclopentasiloxane and Trimethylsiloxysilicate</i>	CHEMSIL SILICONES, INC.	1.00
H. CHEMSIL K-45 <i>Acrylate Dimethicone Crosspolymer and Cyclopentasiloxane</i>	CHEMSIL SILICONES, INC.	1.20
I. Z-Cote HP1 <i>Zinc Oxide</i>	BASF	9.30
J. Uvinul MC 80 <i>Octinoxate</i>	BASF	7.50

Step 2

A. Water		44.00
B. Butylene Glycol		0.75
C. Sodium Chloride		0.75

Step 3

A. Phenoxyethanol	0.50
B. Undecylenoyl Glycine (Lipacide UG - Seppic)	0.50

PROCEDURE:

Step 1: Into the main jacketed mixing vessel add in order with high-speed mixing and heat to 70°C.

Step 2: In separate jacketed vessel add in order and heat to 70°C and mix w/moderate-speed mixing. Slowly add water phase to oil phase and mix for 30 minutes.

Step 3: Cool to 40°C and add in order. Mix for 15 minutes.

NOTE: This formula does not include propellant portions. Formula may need to be re-calculated based upon addition of propellants.

Product Code: CRL-15-10A
12/19/12

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