



Sunscreen: SPF Enhancement

Formulation 00561

ATTRIBUTES

- Enhanced Sun Protection (SPF = 23) compared to CPF formulation 562 with 200 Fluid, 5 cSt
- Protection
- Sun care lotion
- SPF Enhancement

DOW CORNING® PRODUCTS

- DOW CORNING® 2502 COSMETIC FLUID
- DOW CORNING® 5200 FORMULATION AID
- DOW CORNING® 5562 CARBINOL FLUID

XIAMETER® PRODUCTS

- XIAMETER® PMX-0245 CYCLOPENTASILOXANE

Ingredient	Wt. %	Trade Name/Supplier
Phase A		
1. Bis-Hydroxyethoxypropyl Dimethicone	7	DOW CORNING® 5562 CARBINOL FLUID
2. Lauryl PEG/PPG-18/18 Methicone	6	DOW CORNING® 5200 FORMULATION AID
3. Cetyl Dimethicone	3	DOW CORNING® 2502 COSMETIC FLUID
4. Cyclopentasiloxane	6	XIAMETER® PMX-0245 CYCLOPENTASILOXANE
5. Ethylhexyl Methoxycinnamate	7.5	Uvinul MC 80 / BASF Corporation
Phase B		
6. Deionized Water	65.1	
7. Sodium Chloride	2	Sodium Chloride / Fisher Scientific
8. Glycerin	3	Glycerin / Fisher Chemical Company
9. Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben	0.4	Germaben II / ISP

Procedure

1. Warm ingredient 2 to about 30 degrees C and agitate gently before using.
2. Combine phase A ingredients and mix.
3. Mix phase B ingredients together.
4. Add phase B to phase A very slowly using a separatory funnel. Mix phase A very rapidly using the vessel / blade configuration described in "Silicone Formulations Aids Booklet," Form 25-718A-01. (1000 mL tall beaker, 1376 rpm).
5. The use of a baffled mixing vessel is helpful.

Variations

245 FLUID can be replaced with 246 FLUID

245 FLUID can be replaced with 2-1184 FLUID

5562 CARBINOL FLUID can be replaced with 200 FL 5 CS

Stability

Stable through 5 freeze / thaw cycles.

External Reference Material

The SPF test was evaluated for the original formulation. No testing were performed on the variations

Dow Corning® Application Patents

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