

Moisturizer with SPF and SiBrid® DE-12

SiBrid® DiEthicone DE-12 fluid is a light emollient that is an exceptional vehicle for pigment wetting and dispersions. It is compatible with organic compounds, including sunscreens, and provides improved spreading and blending to formulations.

INCI Name	Ingredient	Supplier	Wt%
Phase A			
Polydiethylsiloxane	SiBrid® DE-12	Gelest/Paradigm Science	7.00
Titanium Dioxide	Sunscreen Grade Titanium Dioxide		5.00
Phase B			
Water (Aqua)	Deionized Water		q.s.
Magnesium Sulfate			0.20
Butylene Glycol			6.00
Preservatives			q.s.
Phase C			
Ethylhexyl Methoxycinnamate	Escalol® 557	Ashland	7.50
Octyldodecyl Stearate	Ceraphyl® ODS	ISP/Ashland	5.10
PEG/PPG 10/1 Cetyl Dimethicone	Abil® EM 90	Evonik	5.00
Myristyl Methicone	AM-114	Gelest/Paradigm Science	2.50
Beeswax	White Beeswax		1.00
Hydrogenated Castor Oil	Castor Wax® MP80	Vertellus	0.50
Total			100

Procedure:

- Disperse Phase A using a three roll mill.
- Combine Phase C and heat to 85°C. Cool to 70°C while mixing.
- Add Phase A to Phase C under slow homogenization.
- Combine first two ingredients in Phase B and stir until dissolved.
- Add remaining ingredients to Phase B and mix while heating Phase B to 70°C.
- At 70°C, slowly add Phase B to Phase AC and homogenize until emulsified.
- Mix for an additional 5 minutes while holding heat.
- Cool to 30°C with paddle blade.

Formula courtesy of



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