



MICRO POWDERS, INC.

Specialty Micronized Wax Additives

SUNSCREEN LOTION WITH MICROSILIP 519			
INGREDIENT	INCI NAME	% W/W	SUPPLIER
Phase A			
Deionised Water	Water	44.70	N/A
Trisodium EDTA	Trisodium EDTA	0.20	N/A
Triethanolamine 99%	Triethanolamine	0.90	N/A
Butylene Glycol	Butylene Glycol	15.00	N/A
Veegum F	Magnesium Aluminum Silicate	0.70	Vanderbilt Minerals LLC
Keltrol CG	Xanthan Gum	0.25	CP Kelco
Phase B			
AJM- Jetmilled Talc	Talc	10.00	Kobo Products Inc.
RonaFlair SynMica M	Synthetic Mica	5.00	Rona EMD Chemicals
Phase C			
Microsilip® 519	Poly Terta Fluoro Ethylene (PTFE)	3.70	Micro Powders, Inc.
Parsol MCX/Escalol 557	Octyl Methoxy Cinnamate	7.50	BASF
Protachem GMS-450	Glyceryl Stearate	2.00	Protameen Chemicals Inc.
Stearic Acid TP NF	Stearic Acid	1.70	Protameen Chemicals Inc.
Protachem OP	Octyl Palmitate	6.60	Protameen Chemicals Inc.
Phase D			
Cucumber Mint Fragrance	Fragrance	0.15	Bell Flavors & Fragrance.
F D & C Blue #1 (2% Sol)	F D & C Blue # 1	0.10	Sensient Colors LLC
F D & C Red #40 (1% Sol)	F D & C # 40	0.80	Sensient Colors LLC
BarGuard CP	Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol	0.70	Hampford Research Inc.
	Total	100%	

Procedure

1. Weigh Phase A ingredients: Water, EDTA and TEA into a separate beaker. Start mixing using propeller blade at slow to medium speed until it is uniform and clear. Now in separate a beaker add Butylene Glycol, Veegum and Xanthan Gum. Mix well make slurry and pour into Water phase. Start heating to 165°F under high speed mixing. Once temporary reaches to 165°F, mix for 30 minutes until gum hydrates completely. Check by making drawdown on a white paper.
2. Slowly add Phase B under high speed mixing. As the batch will start to thicken, continue high speed mixing until uniform phase is achieved. Mix for 30 minutes.
3. In separate beaker weigh Phase C, except Microsilip 519, Heat to 170 F under propeller medium speed mixing until clear. Now add Microsilip 519 and continue mixing until uniformly dispersed.
4. Pour Phase C in to Phase A+B at constant slow rate speed at 165°F to 170°F. Continue high speed mixing for 30 minutes with occasional side sweeping (emulsification step).
5. Cool the batch to 145°F and add Phase D ingredients. Maintain 145°F for 15 minutes and mix for additional 15 minutes and cool down the batch to ambient temperature.
6. Drop the batch in an appropriate container.

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