

Phase-inversion Sunscreen Lotion (In Vitro SPF50)

Formula composition:

XYDW25110701

No.	Phase	Trade name	INCI		Supplier
1	A	Z-Emuslix PI-100F	CETEARYL ALCOHOL, C20-22 ALKYL PHOSPHATE, PEG-100 STEARATE, GLYCERYL STEARATE, SILICA, ISONONYL ISONONANOATE	4.00	GREENZN
2		Lanol 99	ISONONYL ISONONANOATE	3.50	
3		CAPRYLYL TSO	CAPRYLYL METHICONE	3.00	
4		MCX	ETHYLHEXYL METHOXYCINNAMATE	8.00	
5		HYSHELL A+	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	2.00	
6		Sunobel® OS	ETHYLHEXYL SALICYLATE	3.00	
7	B	Micro TiO2 060 AS	TITANIUM DIOXIDE, ALUMINUM HYDROXIDE, TRIETHOXYCAPRYLYLSILANE	3.00	
8		Lanol 99	ISONONYL ISONONANOATE	1.50	
9	C	Water	WATER	55.60	

Disclaimer:

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10		AroHydro-PHP	HYDROXYACETOPHENONE	0.50	
11		AroHydro-H	1,2-HEXANEDIOL	0.50	
12		1,3-Butylene glycol	BUTYLENE GLYCOL	8.00	
13		Glycerin	GLYCERIN	2.00	
14		Carbopol® Aqua SF-1 Polymer	SODIUM ACRYLATES COPOLYMER, WATER	1.50	
15	D	PC 2000	AMINOMETHYL PROPANOL	0.40	
16	E	HYSHELL SORB-M	METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL, WATER, DECYL GLUCOSIDE, PROPYLENE GLYCOL, XANTHAN GUM	2.00	
17	F	Zenipoly SSP	SODIUM ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER, ISOHEXADECANE, POLYSORBATE 80, WATER, SORBITAN OLEATE	0.50	
18	G	86424048	PARFUM	0.10	

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Process:

1. Homogenize Phase A under stirring until well dispersed. Add Phase B (pre-milled color slurry), and continue homogenizing under stirring to achieve uniform dispersion. Heat the combined Phase A+B to 80°C.
2. Mix Phase C thoroughly, then add Phase D and stir evenly. Heat to 80°C. Pour the A+B mixture into the C+D mixture under stirring, and homogenize for 3 minutes.
3. Cool down under stirring to 65°C. Add Phase E and homogenize for 3 minutes, then add Phase F and homogenize for another 3 minutes.
4. Cool to 45°C, add Phase G, stir until homogeneous. The batch is complete.

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