



KSL-523

Mineral ZnO SPF 58



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
50.00	DBS50MZ	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Caprylyl Methicone (And) Dimethicone (And) Polyglyceryl-6 Polyricinoleate (And) Isopropyl Titanium Triisostearate	Kobo Products
6.50	NET-WO NS	Polyglyceryl-6 Polyricinoleate (and) Polyglyceryl-2 Isostearate (and) Disteardimonium Hectorite	Barnet Products
5.00	HALLBRITE BHB	Butyloctyl Salicylate	Hallstar
4.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
4.00	MAKIBASE SEB	Polyglyceryl-3 Polyricinoleate (And) Polyglyceryl-3 Diisostearate	Kobo Products
3.55	ELEFAC I-205	Octyldodecyl Neopentanoate	Alzo International Inc.
1.25	MSS-500/20N	Silica	Kobo Products
Part 2			
18.00	Deionized Water	Water	
5.50	Butylene Glycol	Butylene Glycol	Ruger Chemical
0.90	Sodium Chloride	Sodium Chloride	Morton Salt
0.80	EUXYL PE 9010	Phenoxyethanol (And) Ethylhexylglycerin	Ashland
0.50	NATRLQUEST® E30	Trisodium Ethylenediamine Disuccinate	Innospec
100.00			

Description:

This formula is a SPF 58 Zinc Oxide only sunscreen serum. It's utilizing DBS50MZ, a non-whitening and lightweight nano zinc oxide dispersion that protects against UVA + UVB rays. SUNBOOST ATB is a proprietary ratio of anti-oxidant, anti-irritant, and anti-inflammatory agents that boosts SPF. MAKIBASE SEB is a 100% vegetable based and COSMOS approved liquid W/O emulsifier to help stabilize the emulsion, while giving a light and non-greasy feel. MSS-500/20N is a silica microsphere that gives the formula a beautiful silky texture with great blendability on the skin. It also helps scatter light to diminish the look of fine lines on the skin.

Manufacturing Procedure:

1. Weigh out Phase 1 in main beaker and begin mixing under homogenizer. Mix until uniform.
2. Weigh out Phase 2 in side beaker and begin mixing under prop. Mix until uniform.
3. Once Phase 1 and Phase 2 are both uniform, slowly add Phase 2 (side-water) to Phase 1 (main-water). Emulsify @ homo speed @ 2500 - 3300 rpm.
4. Once Phase 2 is fully transferred into Phase 1, mix under homogenizer for an additional 10 minutes.

Active Inaredient(s):

Zinc Oxide 24.25%

Testing:

SPF: in vivo on 5 subjects
CW: FDA method



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FORMULATIONS

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