



KSL-377A-EU

Non-Nano Mineral Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
36.40	Deionized Water	Water	
20.00	GLW70MZC	Zinc Oxide (And) Water (And) Glycerin (And) Sodium Polyacrylate (And) Cellulose Gum	Kobo Products
2.00	Tego® SML 20	Polysorbate 20	Evonik
0.50	Emulsiphos®	Potassium Cetyl Phosphate (and) Hydrogenated Palm Glycerides	Symrise
Part 2			
4.00	Butylene Glycol	Butylene Glycol	Interchimie
0.30	Keltrol® CG	Xanthan Gum	CP Kelco
Part 3			
10.00	HBP50TMD	Butyloctyl Salicylate (And) Titanium Dioxide (And) Polyhydroxystearic Acid (And) Dimethicone (And) Hydrogen Dimethicone	Kobo Products
8.00	Tegosoft® TN	C12-15 Alkyl Benzoate	Evonik
6.00	Emulium® 22	Tribehenin PEG-20 Esters	Gattefossé
5.00	Dub Inin A	Isononyl Isononanoate	Stéarinerie-Dubois
3.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
1.00	Lipex® Shea Tris	Shea Butter	AAK
1.00	Dub Estoline	Ethylhexyl Polyhydroxystearate	Stéarinerie-Dubois
Part 4			
2.00	TTO-NJE8	Titanium Dioxide (And) Alumina (And) Jojoba Esters	Kobo Products
0.80	Symdiol® 68	1,2-Hexanediol (And) Caprylyl Glycol	Symrise
100.00			

Description:

This Non-Nano Mineral Sunscreen Cream offers a lightweight finish with minimal whitening. This formula features Kobo's non-nano Zinc Oxide and Titanium Dioxide dispersions, GLW70MZC and HBP50TMD, and TTO-NJE8, a non-nano treated Titanium Dioxide powder. The combination of these products provides high UVA and UVB protection. SunBoost ATB, a proprietary ratio of anti-oxidant, anti-irritant and anti-inflammatory agents, helps boost UV protection.

Manufacturing Procedure:

1. Combine Part 1. Pre-mix Part 2 in a side beaker and add to Part 1. Adjust pH to 7.5 using Citric Acid Solution (10%). Start heating to 80°C while prop mixing.
2. Heat Part 3 to 80°C while prop mixing.
3. Add Part 3 to Parts 1 and 2 while mixing.
4. Remove batch from heat. Homogenize for 2 minutes.
5. Switch back to propeller and mix for 10-15 minutes.
6. Add Part 4 to main beaker and continue prop mixing until batch reaches room temperature.

Active Ingredient(s):

Titanium Dioxide	5.80%
Zinc Oxide	13.60%

Testing:

SPF: in vivo on 5 subjects
 UVA-PF: in vivo on 3 subjects
 CW: FDA method



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