



KSL-403A

Silicone-Free TiO₂ & ZnO Sunscreen Cream



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
20.00	TNP70MZ	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate	Kobo Products
12.25	HBTNP60TV	Butyloctyl Salicylate (And) Titanium Dioxide (And) Stearic Acid (And) Aluminum Hydroxide (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid	Kobo Products
10.00	Dermofeel® Sensolv	Isoamyl Laurate	Dr. Straetmans/Evonik
4.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
3.00	Dermol 89	Ethylhexyl Isononanoate	Alzo Chemical
3.00	Isolan® GPS	Polyglyceryl-4 Diisostearate/Polyhydroxystearate/Sebacate	Evonik
2.00	COSMOL™ 525	Neopentyl Glycol Diethylhexanoate	Ikeda
0.90	COSMOL™ 43V	Polyglyceryl-2 Triisostearate	Ikeda
Part 2			
35.52	Deionized Water	Water	
0.08	Dermofeel® PA-3	Sodium Phytate	Dr. Straetmans/Evonik
Part 3			
3.00	Glycerin U.S.P. F.C.C. 96%	Glycerin	Ruger Chemical
0.15	Keltrol® CG	Xanthan Gum	CP Kelco
Part 4			
1.00	MgSO ₄ 7H ₂ O	Magnesium Sulphate Heptahydrate	EMD Chemicals Inc.
Part 5			
1.50	Zemea	Propanediol	Du Pont & Tate
0.80	SymDiol® 68	1,2-Hexanediol (And) Caprylyl Glycol	Symrise
0.50	Symsave® H	Hydroxyacetophenone	Symrise
Part 6			
2.30	MSS-500W	Silica	Kobo Products
100.00			

Description:

A silicone-free, mineral sunscreen that spreads easily onto skin and leaves a light, dry after feel with minimal whitening. TNP70MZ is a zinc oxide dispersion that provides the UVA protection. HBTNP60TV is a titanium dioxide dispersion that contains (SPF booster) butyloctyl salicylate for SPF/UVB protection. SunBoost ATB is a proprietary ratio of three ingredients that helps boost SPF and UVA protection. MSS-500W is a silica microsphere that gives the product its smooth, rich application and soft and dry after feel.

Manufacturing Procedure:

PROCESS REQUIRES NO HEATING

1. In main vessel, homogenize Part 1 until batch is smooth.
2. In a side kettle, add pre-mixed Part 3 into Part 2 with fast speed propeller mixing.
3. Add Part 4 and pre-mixed Part 5 to Parts 2 and 3 and mix well.
4. With slow homogenization, SLOWLY add Parts 2, 3, 4 and 5 to Part 1.
5. Once all of the water phase is added, homogenize at high speed for 2 to 3 minutes.
6. With slow homogenization, sprinkle in Part 6 and mix until batch is completely smooth and uniform.

Active Inaredient(s):

Titanium Dioxide	6.10%
Zinc Oxide	13.58%

Testing:

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



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