



KSL-384D-AU

All Zinc Sunscreen-AUSTRALIA



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
20.00	HBQP75FZS	Zinc Oxide (And) Butyloctyl Salicylate (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
18.60	GCP50ZSI	Zinc Oxide (And) Caprylic/Capric Triglyceride (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
7.40	BRB Caprylyl Methicone	Caprylyl Methicone	BRB International
3.00	DowSil™ ES-5226 DM Formulation Aid	Dimethicone (and) PEG/PPG-18/18 Dimethicone	Dow Chemical
3.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
2.00	KOBOGUARD® MQ60DM	Trimethylsiloxysilicate (And) Dimethicone	Kobo Products
1.75	Abil® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
1.00	ABIL® EM 180	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
Part 2			
0.50	Pelemol® GTB	Tribehenin	Phoenix Chemical
Part 3			
32.40	Deionized Water	Water	
Part 4			
3.00	Glycerin U.S.P. F.C.C. 96%	Glycerin	Ruger Chemical
0.10	Keltrol® CG	Xanthan Gum	CP Kelco
Part 5			
0.90	MgSO4 7H2O	Magnesium Sulphate Heptahydrate	EMD Chemicals Inc.
0.10	Protacide Na3 EDTA	Trisodium EDTA	Protameen Chemicals
Part 6			
3.00	Zemea®	Propanediol	Du Pont, Tate & Lyle
0.75	Symdiol® 68	1,2-Hexanediol (And) Caprylyl Glycol	Symrise
0.50	SymSave® H	Hydroxyacetophenone	Symrise
Part 7			
2.00	MSS-500W	Silica	Kobo Products
100.00			

Description:

This minimal whitening All Zinc Mineral Sunscreen Cream contains ingredients on the Australian Therapeutic Goods Administration listing. Dispersion HBQP75FZS contains a larger particle size zinc oxide (for UVA protection) and SPF booster, butyloctyl salicylate. Dispersion GCP50ZSI contains a smaller particle size zinc oxide for UVB/SPF protection. SunBoost ATB is a proprietary ratio of 3 ingredients that boosts in vivo SPF and UVA-PF. KOBOGUARD® MQ60DM provides film-forming properties for better wear. MSS-500W, low to moderate oil absorption spherical silica, gives the product its dry, silky application. MSS-500/5H, high oil absorption spherical silica, provides the non-greasy feel.

Manufacturing Procedure:

1. In main vessel, homogenize Part 1 while heating to 80-85 °C.
2. Add Part 2 and homogenize for an additional 10 minutes.
3. In a side kettle, add Part 3. Pre-mix Part 4 and add to Part 3 with fast speed propeller mixing. While mixing, heat Parts 3 and 4 to 80 °C.
4. Mix Part 5 ingredients into Parts 3,4. (Maintain temperature at 80 °C).
5. Slowly add Parts 3,4,5 to Parts 1,2 with slow homogenization. Slowly homogenize with side scraping only enough to blend contents thoroughly.
6. When all of the water phase is added, begin cooling batch while homogenizing (3500 rpm).
7. Pre-mix Part 6 until phase is clear and all is dissolved. When batch reaches 40 °C, add Part 6 with slow homogenization.
8. Sprinkle in Part 7 and homogenize until batch is smooth and uniform.
9. When batch reaches 30 °C, homogenize at moderate speed for 5 minutes, maintaining the temperature at 30 °C or less.

Active Inredient(s):

Zinc Oxide 23.14%

Testing:

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



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