



KSL-425D

Natural (Silicone-Free) Mineral Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
22.01	GCP55MZ8SG	Zinc Oxide (And) Caprylic/Capric Triglyceride (And) Polyhydroxystearic Acid (And) Stearoyl Glutamic Acid	Kobo Products
19.20	NHP55STS	Titanium Dioxide (And) C13-15 Alkane (And) Stearic Acid (And) Aluminum Hydroxide (And) Polyhydroxystearic Acid	Kobo Products
4.12	ZnO-C-ASG3J	Zinc Oxide (And) Stearoyl Glutamic Acid	Kobo Products
4.00	Dehymuls® PGPH	Polyglyceryl-2 Dipolyhydroxystearate	BASF
3.65	SunBoost ATB Natural	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
1.00	Dehymuls® LE	PEG-30 Dipolyhydroxystearate	BASF
Part 2			
36.37	Deionized Water	Water	
Part 3			
1.50	Superol Glycerine USP, Kosher Glycerine USP	Glycerin	P&G Chemicals
0.10	Keltrol® CG	Xanthan Gum	CP Kelco
Part 4			
1.00	MgSO4 7H2O	Magnesium Sulphate Heptahydrate	A&C American Chemicals
0.10	Dermofeel® PA-3	Sodium Phytate	Dr. Straetmans/Evonik
0.10	ALLANTOIN	Allantoin	Jeen International
Part 5			
2.50	Zemea®	Propanediol	Du Pont & Tate
0.75	Hydrolite® 5 Green	Pentylene Glycol	Symrise
0.60	AE Preserve® PCG	Phenethylalcohol (And) Caprylhydroxamic Acid (And) Glycerin	AE Chemie
Part 6			
2.00	MSS-500/5H	Silica	Kobo Products
1.00	MSS-500W	Silica	Kobo Products
100.00			

Description:

This naturally-derived mineral sunscreen cream is non-greasy with minimal whitening on skin. NHP55STS, (Titanium Dioxide dispersion in C13-15 Alkane) provides SPF protection with a light after feel. The varying particles sizes of zinc oxide (in GCP55MZ8SG and ZnO-C-ASG3J) provide effective UVA protection. SunBoost ATB Natural helps boost SPF. MSS-500/5H and MSS-500W give the product a soft application and non-greasy after feel.

Manufacturing Procedure:

1. In the main vessel, homogenize the first five ingredients in Part 1 until batch is smooth. Add the last ingredient and heat to 80-85°C.
2. In side kettle, weigh out Part 2. Pre-mix Part 3 and add to Part 2 with fast speed propeller mixing. Mix for at least 30 minutes.
3. With mixing, begin heating Parts 2 and 3 to 65-70°C. Add Part 4, one at a time while heating.
4. With homogenization, slowly add Parts 2, 3 and 4 to Part 1.
6. Cool with stirring to 50°C and homogenize at medium speed while adding premixed Part 5. Homogenize for at least 3-5 minutes.
7. With slow speed homogenization, blend Part 6 into batch and then cool with mixing to 30°C.

Active Inaredient(s):

Titanium Dioxide	8.50%
Zinc Oxide	15.50%

Testing:

SPF: in vivo on 5 subjects
CW: FDA method



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