



KSL-515

Mediterranean Sunscreen SPF 30



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
19.70	JOJOBA OIL	Simmondsia Chinensis (Jojoba) Seed Oil	Vantage
19.00	GCP45XZJ	Caprylic/Capric Triglyceride (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Jojoba Esters	Kobo Products
13.25	NHD75MZCOE	Zinc Oxide (And) C13-15 Alkane (And) Polyglyceryl-2 Dipolyhydroxystearate (And) Hydrogenated Olive Oil Stearyl Esters (And) Trihydroxystearin	Kobo Products
6.50	NET-WO NS	Polyglyceryl-6 Polyricinoleate (and) Polyglyceryl-2 Isostearate (and) Disteardimonium Hectorite	Barnet Products
3.25	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
3.00	Sensolene® Care DD	Lauryl Oliviate	HallStar
3.00	Olivem ® 2090	Polyglyceryl-4 Oliviate/Polyricinoleate	Hallstar
1.00	Plandool™-G (Non-GMO)	Bis-Behenyl/Isostearyl/Phytosteryl Dimer Dilinoleyl Dimer Dilinoleate	Nippon Fine Chemical Co., LTD
1.00	MSS-500W	Silica	Kobo Products
0.30	VITAMIN E-ACETATE	Tocopheryl Acetate	RITA
Part 2			
22.20	Deionized Water	Water	
6.00	Zemea® Propanediol	Propanediol	Dupont Tate & Lyle
1.00	Magnesium Sulfate Heptahydrate	Magnesium Sulfate	Sigma Aldrich
0.80	EUXYL PE 9010	Phenoxyethanol (And) Ethylhexylglycerin	Ashland Specialty Ingredients
100.00			

Description:

A non-nano zinc oxide lightweight lotion sunscreen lotion that provides strong broad spectrum protection. NHD75MZCOE and GCP45XZJ are natural attenuation zinc oxide dispersions that provide broad spectrum protection. Sunboost ATB is a proprietary ratio of anti-oxidant, anti-irritant, and anti-inflammatory agents that boost SPF. MSS-500W is a natural silica microsphere that gives a soft and non-greasy skin feel. Plandool™-G (Non-GMO) is a plant derived lanolin alternative ester that blends into the skin well and offers skin barrier moisture protection.

Manufacturing Procedure:

1. Weigh out Phase 1 in main beaker and begin heating to 40-45C. Mix under homogenizer (~1500 - 2000 rpm). Mix until uniform.
2. Once Phase 1 is uniform, cut the heat and cool to room temperature.
3. Combine Phase 2 in a side beaker and mix under propeller. Mix until uniform.
4. Increase homogenizer speed to ~2500 - 3300 rpm for emulsifying.
5. Once Phase 1 (main-oil) and Phase 2 (side-water) are both uniform, slowly add Phase 2 to Phase 1. Avoid pooling.
6. Once Phase 2 is fully transferred into Phase 1, homogenize for an additional 10 minutes.

Active Inaredient(s):

Zinc Oxide 17.71%

Testing:

SPF: in vivo on 5 subjects
CW: FDA method



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FORMULATIONS

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