

UV Balanced Sunscreen with DAIAMID MSP-Ti50 Formula KSL-163 and DAIAMID MSP-Zn50



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	18.50	DAIAMID MSP-Zn50	Nylon-12 (And) Zinc Oxide	Daicel-Evonik/Kobo Products
	15.90	Salacos 99	Isononyl Isononanoate	Ikeda Corporation
	5.00	DAIAMID MSP-Ti50	Nylon-12 (And) Titanium Dioxide	Daicel-Evonik/Kobo Products
	5.00	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	3.00	SILSOFT 034	Caprylyl Methicone	Momentive/Kobo Products
	1.00	SF96-350	Dimethicone	Momentive/Kobo Products
	1.00	LUCENTITE SAN-P	Quaternium-18 Hectorite	Kobo Products
	0.50	Crill 3 NF	Sorbitan Isostearate	Croda
	0.10	Propylene Carbonate	Propylene Carbonate	Spectrum Chemical Mfg Corp.
	2	46.50	Deionized Water	Water
1.00		Sodium Chloride	Sodium Chloride	Morton Salt
1.00		Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
1.00		Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
0.50		Liposorb® L-20	Polysorbate 20	Lipo Chemicals

100

Manufacturing Procedure

- In main kettle, combine Part 1 ingredients and heat to 60-65°C. Homogenize at high speed until Lucentite is dispersed well.
- Mix Part 2 ingredients until uniform and add Part 1 under propeller. Mix until uniform.
- Cool to 28°C (room temperature) with water bath.

Description

This sunscreen features DAIAMID MSP-Ti50, TiO2 entrapped in Nylon sphere and DAIAMID MSP-Zn50, Zinc Oxide entrapped in Nylon sphere. These provide SPF/PFA and good feel.

Notes

Active Ingredient(s)	
Titanium Dioxide	2.30%
Zinc Oxide	7.80%

SPF testing: in vivo on 3 subjects

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September, 2009

Formulations

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The Powder & Dispersion Specialist

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