

# UV Balanced Sunscreen with DAIAMID MSP-TiO50 and DAIAMID MSP-ZnO50

Formula KSL-163



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	18.50	DAIAMID MSP-ZnO50	Nylon-12 (And) Zinc Oxide (And) Methicone	Daicel-Evonik/Kobo Products
	15.90	Salacos 99	Isononyl Isononanoate	Ikeda Corporation
	5.00	DAIAMID MSP-TiO50	Nylon-12 (And) Titanium Dioxide (And) Aluminum Hydroxide (And) Stearic Acid	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	LUCENTITE SAN-P	Quaternium-18 Hectorite	Kobo Products
	1.00	ELEMENT14 PDMS 350	Dimethicone	Momentive/Kobo Products
	0.50	Crill 3	Sorbitan Stearate	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-TiO50, TiO2 entrapped in Nylon sphere and DAIAMID MSP-ZnO50, Zinc Oxide entrapped in Nylon sphere. These provide SPF/PFA and good feel.

### Notes

Active Ingredient(s)	
Titanium Dioxide	1.85%
Zinc Oxide	8.69%

SPF testing: in vivo on 3 subjects

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# The Powder & Dispersion Specialist

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