

# UV Balance Sunscreen featuring TNP50T7 and

Formula KSL-143E

# TNP65MZS

in vivo SPF 32  
in vitro SPF 29  
PFA 11  
in vitro UVA  
(see data below)

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	39.02	Deionized Water	Water	
	3.00	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
	0.56	Sodium Chloride	Sodium Chloride	Morton Salt
	0.20	Allantoin	Allantoin	RITA Corp.
<b>2</b>	19.81	<b>TNP65MZS</b>	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	13.00	<b>TNP50T7</b>	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	<b>Kobo Products</b>
	8.00	Finsolv® TN	C12-15 Alkyl Benzoate	Finetex
	3.00	Hallbrite BHB	Butyloctyl Salicylate	C.P. Hall Company
	3.00	ABIL® Wax 9801	Cetyl Dimethicone	Evonik
	2.50	Arlacel P135	PEG-30 Dipolyhydroxystearate	Croda
	2.50	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	2.10	Floraesters® 15	Jojoba Esters	Floratech
	1.00	Shea Butter	Shea Butter	RITA Corp.
	1.00	<b>LUCENTITE SAN-P</b>	Quaternium-18 Hectorite	<b>Kobo Products</b>
	1.00	Argan Oil	Argan Oil	Centerchem, Inc.
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
	0.10	Propylene Carbonate	Propylene Carbonate	
	0.06	Propyl Paraben NF	Propylparaben	International Sourcing

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### Manufacturing Procedure

- In a double jacketed stainless steel tank equipped with a lightening type mixer, along with side sweep action, mix ingredients in Part 1 in the order listed.
- Heat Part 1 to 75°C.
- In a second double jacketed stainless steel tank equipped with a lightening type mixer, heat Part 2 to 75°C.
- Add Part 1 to Part 2 very slowly with mixing using a lightening type mixer.
- Cool emulsion further to 33°C with sweep action mixing.

### Description

Elegant W/O sunscreen that uses Kobo's Titanium Dioxide Dispersion, TNP50T7, and Kobo's Zinc Oxide Dispersion, TNP65MZS. The proportion of Titanium Dioxide to Zinc Oxide provides a 3:1 ratio of SPF to PFA while still being transparent on the skin.

### Notes

Active Ingredient(s)	
Titanium Dioxide	5.10%
Zinc Oxide	12.20%

SPF testing: in vivo on 3 subjects  
UVA Testing: UVA Ratio = 0.59  
Critical Wavelength = 371nm  
Transpore Tape Method-Labsphere

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October, 2008

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# The Powder & Dispersion Specialist

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