

UV Balance Sunscreen Featuring TNP50T7 and Formula KSL-143E TNP65MZS



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	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.
2	19.81	TNP65MZS	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
	13.00	TNP50T7	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	Kobo Products
	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	Jjoba Esters	Floritech
	1.00	Shea Butter	Shea Butter	RITA Corp.
	1.00	LUCENTITE SAN-P	Quaternium-18 Hectorite	Kobo Products
	1.00	Argan Oil	Argania Spinosa Kernel Oil	Centerchem, Inc.
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
	0.10	Propylene Carbonate	Propylene Carbonate	Spectrum Chemical Mfg Corp.
	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

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Formulations

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The Powder & Dispersion Specialist

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