

W/O High SPF Suncare Emulsion featuring

Formula KSL-098B

TNP50T7 & TNP50ZSI



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	31.93	Deionized Water	Water	
	0.56	Sodium Chloride	Sodium Chloride	Morton Salt
	0.20	Allantoin	Allantoin	ISP
2	31.90	TNP50T7	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	Kobo Products
	10.00	TNP50ZSI	C12-15 Alkyl Benzoate (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
	3.00	Hallbrite BHB	Butyloctyl Salicylate	C.P. Hall Company
	3.00	Floraesters® 15	Jajoba Esters	Florotech
	3.00	Cetiol® CC	Dicaprylyl Carbonate	Cognis Corp.
	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
	1.00	Argan Oil	Argan Oil	Centerchem, Inc.
	1.00	Cetiol® SB 45	Shea Butter	Cognis Corp.
	0.20	Rosemary Oleoresin HQ 3401	Romarinus Officinalis (Rosemary) Leaf Extract	Hilltech
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
	0.06	Propyl Paraben NF	Propylparaben	International Sourcing
3	3.00	Ircalmin	Water (and) Triticum Vulgare (Wheat) Extract (and) Saccharomyces Cerevisiae Extract (and) Sodium Hyaluronate	Centerchem, Inc.
	3.00	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
100				

Manufacturing Procedure

- Mix Part 1 in the order listed and heat to 70°C.
- Heat Part 2 to 70°C.
- Add Part 1 to Part 2 slowly with mixing.
- Cool the product slowly down to about 45°C and add Part 3, one ingredient at a time.
- Continue cooling and mixing emulsion to 33°C.

Description

This sunscreen is a W/O emulsion that uses a combination of inorganic sunscreens, Kobo's Titanium Dioxide Dispersion, TNP50T7, and Kobo's Zinc Oxide Dispersion, TNP50ZSI, to produce an Estimated SPF 45 for protection against UVB/UVA. The addition of moisturizers in the form of plant extracts and biopolymers helps to further condition the skin. The combination of Kobo's Titanium Dioxide and Zinc Oxide Dispersions gives excellent UVA protection and transparency on skin.

Notes

Active Ingredient(s)	
Titanium Dioxide	12.12%
Zinc Oxide	4.65%
UVA Testing:	UVA Ratio = 0.82 Critical Wavelength = 380nm Transpore Tape Method-Labsphere

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Formulations

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The Powder & Dispersion Specialist

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