

W/O High SPF Suncare

Formula KSL-086



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	52.39	Deionized Water	Water	
	3.00	Propylene Glycol	Propylene Glycol	RITA Corp.
	0.50	Sodium Chloride	Sodium Chloride	Morton Salt
	0.20	Allantoin	Allantoin	DSM Nutritional Products
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
2	10.00	TNP40VTTS	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	Kobo Products
	10.00	Uvinul® N 539 T	Octocrylene	BASF
	8.50	Uvinul® MC 80**	Ethylhexyl Methoxycinnamate	BASF
	4.00	Cetiol® 868	Ethylhexyl Stearate	Cognis Corp.
	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
	1.50	Uvinul® M 40	Benzophenone-3	BASF
	1.00	Crodafos CES	Cetearyl Alcohol (And) Dicetyl Phosphate (And) Ceteth-10 Phosphate	Croda
	1.00	Cetiol® SB 45	Shea Butter	Cognis Corp.
	1.00	DC 345	Cyclopentasiloxane	Dow Corning
	1.00	ABIL® Wax 9801	Cetyl Dimethicone	Evonik
	0.50	Microcrystalline Wax SP 94	Microcrystalline Wax	Strahl & Pitsch
	0.20	Rosemary Oleoresin HQ 3401	Rosemarinus Officinalis (Rosemary) Leaf Extract	Hilltech
	0.06	Propyl Paraben NF	Propylparaben	International Sourcing

100

Manufacturing Procedure

- *Use explosion-proof mixers and equipment during batching process*
- Mix Part 1 in the order listed until homogeneous and smooth and heat to 80°C.
 - Heat Part 2 to 80°C.
 - Divide the aqueous phase (Part 1) into three aliquots. Add each one slowly to the oil phase (Part 2) with 10 minutes mixing between each addition.
 - After emulsification is complete, continue stirring while cooling to 33°C.
 - Homogenize product for 3 minutes or so at 33-35°C.

Description

This sunscreen provides a high SPF 50 with the use of Kobo's Titanium Dioxide Dispersion, TNP40VTTS. This is combined with three organic UV absorbers to synergize and optimize protection from the sun. Allantoin and Shea Butter supplement healing of the skin. TNP40VTTS is transparent on the skin.

**The USA limit of Ethylhexyl Methoxycinnamate is 7.5%.
This formula is for Europe only.

Notes

Active Ingredient(s)	
Titanium Dioxide	3.20%
Ethylhexyl Methoxycinnamate	8.50%
Octocrylene	10.00%
Benzophenone-3	1.50%

SPF testing: in vivo on 3 subjects

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Formulations

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The Powder & Dispersion Specialist

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