

# High SPF O/W Sunscreen Featuring HBP50VMTS & HBTN65HP1

## Formula KSL-190



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	54.88	Deionized Water	Water	
2	4.00	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
	0.20	KELTROL® CG	Xanthan Gum	CP Kelco
	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
3	16.00	<b>HBP50VMTS</b>	Butyloctyl Salicylate (And) Titanium Dioxide (And) Alumina (And) Methicone (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	7.22	<b>HBTN65HP1</b>	Zinc Oxide (And) Butyloctyl Salicylate (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	4.20	Dermol 25B	C12-15 Alkyl Benzoate	Alzo International Inc.
	2.50	Lipo® GMS 450	Glyceryl Stearate	Lipo Chemicals
	2.50	Lipopeg® 100-S	PEG-100 Stearate	Lipo Chemicals
	0.50	ARGAN OIL	Argania Spinosa Kernel Oil	Centerchem, Inc.
	0.40	Shea Butter	Shea Butter	Cognis Corp.
	0.30	Tocopherol	Tocopherol	BASF
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	4	3.00	<b>MSS-500W</b>	Silica
1.00		Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	SEPPIC
5	3.00	<b>DAITOSOL 5000AD</b>	Acrylates Copolymer (And) Water	<b>Daito/Kobo Products</b>

100

### Manufacturing Procedure

1. Combine Part 1 and heat to 70°C.
2. Combine Part 2 ingredients into a slurry and add to Part 1 while mixing.
3. Combine Part 3 and heat to 70°C.
4. Combine Parts 1 and 2 with Part 3 under homogenization.
5. Add Parts 4 and 5 while cooling.

### Description

This sunscreen uses Kobo's Zinc Oxide Dispersion, HBTN65HP1 and Titanium Dioxide Dispersion, HBP50VMTS, for UVA/UVB protection. The Butyloctyl Salicylate is a booster to help increase the SPF value. This product also contains DAITOSOL 5000AD which is a transparent type of film former that helps to give water resistance to the formulation. MSS-500W spherical silica gives slip during application and reduces shine on the skin.

### Notes

Active Ingredient(s)	
Titanium Dioxide	6.08%
Zinc Oxide	4.51%

SPF testing: in vivo on 3 subjects

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## Formulations

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# The Powder & Dispersion Specialist

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