

# Waterproof Suncare Lotion

Formula KSL-089



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	54.35	Deionized Water	Water	
	3.00	Liposorb® S-20	Polysorbate 60	Lipo Chemicals
	2.00	Liponic® EG-1	Glycereth-26	Lipo Chemicals
	0.60	Phenonip®	Phenoxyethanol (And) Methylparaben (And) Ethylparaben (And) Propylparaben (And) Butylparaben	Clariant
	0.50	Veegum® HV (4%)	Magnesium Aluminum Silicate	R.T. Vanderbilt Company
<b>2</b>	20.00	<b>TNP50ZSI</b>	C12-15 Alkyl Benzoate (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	7.50	Neo Heliopan® AV	Ethylhexyl Methoxycinnamate	Haarman & Reimer
	3.00	Liposorb® S	Sorbitan Stearate	Lipo Chemicals
	2.00	Ganex® V-216	VP/Hexadecane Copolymer	ISP
	1.25	Dermol 99	Isononyl Isononanoate	Alzo International Inc.
	1.00	Tegin ISO	Glycerol Fatty Acid Ester	Evonik
	1.00	Lipowax® D	Cetearyl Alcohol (And) Cetareth-20	Lipo Chemicals
<b>3</b>	2.50	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
<b>4</b>	1.00	Deionized Water	Water	
	0.30	Germall® 115	Imidazolidinyl Urea	ISP

100

**Manufacturing Procedure**

- Heat Part 1 to 78°C.
- Heat Part 2 to 80°C.
- Add Part 2 to 1 under homogenizer.
- Add Part 3 to Parts 1 and 2 under homogenizer.
- Mix for 15 minutes.
- Switch to sweep.
- Cool to 35°C and add Part 4.
- Cool to 30°C.

**Description**

This waterproof sunscreen is an O/W emulsion with an SPF 30. It features Kobo's Zinc Oxide Dispersion, TNP50ZSI, which provides transparency on the skin and SPF. The long-lasting properties are from the inclusion of VP/Hexadecene Copolymer.

**Notes**

Active Ingredient(s)	
Zinc Oxide	9.30%
Ethylhexyl Methoxycinnamate	7.50%

SPF testing: in vivo on 3 subjects

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# The Powder & Dispersion Specialist

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