

# Non Nano Sunscreen Featuring EMP50TEL

## Formula KSL-173

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	56.00	Deionized Water	Water	
	3.00	Liposorb® S-20	Polysorbate 60	Lipo Chemicals
	2.00	Liponic® EG-1	Glycereth-26	Lipo Chemicals
	0.60	Paragon MEPB	Phenoxyethanol & methyl Paraben & Ethyl Paraben & Propyl Paraben and Butyl Paraben	McIntyre Group, Ltd.
	0.50	Veegum® Ultra	Magnesium Aluminum Silicate	R.T. Vanderbilt
<b>2</b>	22.85	<b>EMP50TEL</b>	Titanium Dioxide (And) Ethyl Macadamiate (And) Silica (And) Alumina (And) Stearic Acid (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
	3.00	Liposorb® S	Sorbitan Stearate	Lipo Chemicals
	2.00	Ganex® V-216	VP/Hexadecane Copolymer	ISP
	1.50	Tegosoft liquid	Cetyl hexylhexanoate	Evonik
	1.50	DC 556 Fluid	Phenyl Trimethicone	Dow Corning
	1.25	Lanol 99	Isononyl Isononanoate	SEPPIC
	1.00	Crodamol SS	Cetyl Esters	Croda
	1.00	Lipowax® D	Cetearyl Alcohol (And) Ceteareth-20	Lipo Chemicals
	1.00	DC 193 Fluid	PEG-12 Dimethicone	Dow Corning
	<b>3</b>	2.50	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer
<b>4</b>	0.30	Germall® Plus Liquid	Diazolidinyl Urea & Iodo Propynyl Butyl Carbamate	ISP

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### Manufacturing Procedure

- Mix Part 1 together in the order listed and heat to 78-80°C.
- Mix Part 2 ingredients together and heat to 80°C.
- Add Part 2 to Part 1 under homogenization.
- Add Part 3 to Parts 1 and 2 under homogenization. Mix for 15 minutes.
- Switch to sweep mixing.
- Cool to 35°C and add Part 4.
- Continue to mix and cool gradually until 30°C.

### Description

This high SPF sunscreen uses Kobo's non nano natural sunscreen dispersion EMP50TEL. This is an ultrafine TiO2 dispersed in Ethyl Macadamiate to give a transparent non whitening appearance upon dry down on the skin.

### Notes

Active Ingredient(s)	
Titanium Dioxide	10.51%

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# The Powder & Dispersion Specialist

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