

# W/O High SPF Suncare Emulsion

Formula KSL-084



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	39.50	Deionized Water	Water	
	2.00	Magnesium Sulfate	Magnesium Sulfate	Mallinckrodt
	0.15	Keltrol F	Xanthan Gum	CP Kelco
	0.00	Liposatin® PE-35	Polyethylene	Lipo Chemicals
<b>2</b>	30.00	<b>TNP40VTTS</b>	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	15.85	Ceraphyl® 375	Isostearyl Neopentanoate	ISP
	3.00	Arlacel P135	PEG-30 Dipolyhydroxystearate	Croda
	1.00	Emulsynt™ GDL	Glyceryl Dilaurate	ISP
	0.50	Cegesoft GPO	Elaeis Guineensis (Palm) Oil	Cognis Corp.
	0.10	Rosemary Oleoresin HQ 3401	Rosemarinus Officinalis (Rosemary) Leaf Extract	Hilltech
	<b>3</b>	3.00	Preregen®	Soybean (Glycine Soja) Protein (and) Oxido-Reductases
2.00		<b>CL-2080</b>	Polyethylene	<b>Kobo Products</b>
1.00		Drago Betaglucan 1%	Beta Glucan	Symrise
0.50		Ster-O-Pro	Avena Sativa (Oat) Kernel Flour	Quaker Oats
0.40		Liquid Germall® Plus	Diazolidinyl Urea (And) Iodo Propynyl Butyl Carbamate	ISP

**Manufacturing Procedure**

- Mix Part 1 in the order listed until homogeneous and smooth and heat to 80°C.
- Heat Part 2 to 80°C.
- Add Part 1 to Part 2 slowly with homogenization.
- Cool to 40°C and add ingredients listed under Part 3, in the order listed. Mix well after each addition.
- Homogenize product for 3 minutes or so at 35-39°C.

**Description**

This sunscreen is a W/O emulsion with high SPF. Kobo's Titanium Dioxide dispersion, TNP40VTTS, contributes to excellent transparency and SPF. Kobo's microsphere, CL-2080, reduces tack to give a nice skin feel and a matte appearance on the skin. Botanical materials such as Palm Oil and Oat Flour are soothing to the skin.

**Notes**

Active Ingredient(s)  
Titanium Dioxide 9.60%

SPF testing: in vivo on 3 subjects  
UVA Testing: UVA Ratio = 0.71  
Critical Wavelength = 378nm  
Transpore Tape Method-Labsphere

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# The Powder & Dispersion Specialist

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