

W/O High SPF Suncare Emulsion

Formula KSL-084



in vivo SPF 24
(see data below)

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	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
2	30.00	TNP40VTTS	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	Kobo Products
	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
	3	3.00	Preregen®	Soybean (Glycine Soja) Protein (and) Oxido-Reductases
2.00		CL-2080	Polyethylene	Kobo Products
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

1. Mix Part 1 in the order listed until homogeneous and smooth and heat to 80°C.
2. Heat Part 2 to 80°C.
3. Add Part 1 to Part 2 slowly with homogenization.
4. Cool to 40°C and add ingredients listed under Part 3, in the order listed. Mix well after each addition.
5. 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

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

KOBO

www.koboproducts.com

August, 2003

Formulations

Product formulations are included as illustrative examples only. Kobo Products Inc. makes no representation or warranty concerning the efficacy or safety of any product manufactured using such formulations. All statements concerning the possible use of Kobo Products Inc. are for research purposes only. Responsibility for the performance or adequate testing of any product prior to sale or use of any such product lies with the manufacturer thereof.

Use of Products

Products sold by Kobo are designed, manufactured and sold for industrial use only. Prior to use of any such product for any application other than an industrial use, the user has the sole responsibility and obligation to determine the suitability of any such product for any such application.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Limitation of Liability

Kobo Products Inc. shall in no event, whether the claim is based on warranty, contract, tort, strict liability, negligence or otherwise, be liable for incidental or consequential damages, or for any other damages in excess of the amount of the purchase price.

The Powder & Dispersion Specialist

KOBO
www.koboproducts.com

Kobo Products, Inc.

3474 South Clinton Avenue
South Plainfield, NJ 07080 - USA
tel : +1 - 908-757-0033
fax : +1 - 908-757-0905

Kobo Products SAS

Rue Buissonnière. BP 67660
31676 Labege Cedex - FRANCE
tel : +33 - (0)5-62-88-77-40
fax : +33 - (0)5-62-88-77-49