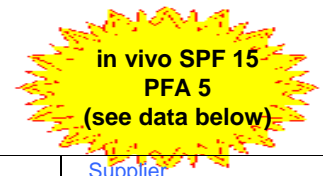


Balanced SPF 15 Sheer Sunscreen

Formula KSL-166



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	67.25	Deionized Water	Water	
	5.00	Glycerin 99%	Glycerin	Cognis Corp.
	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
	0.20	Keltrol® CG	Xanthan Gum	CP Kelco
2	11.00	TNP50T7	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	Kobo Products
	6.00	TNP65FZS	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Kobo Products
	4.20	Liponate® EHP	Ethyl Hexyl Palmitate	Lipo Chemicals
	4.20	Emulgade® SE-PF	Glyceryl Stearate (And) Ceteareth-20 (And) Ceteareth-12 (And) Cetearyl Alcohol (And) Cetyl Palmitate	Cognis Corp.
	0.85	Cetiol® SB 45	Shea Butter	Cognis Corp.
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	3	1.00	Rapithix® A-60	Sodium Polyacrylate (And) Hydrogenated Polydecene (And) Trideceth-6

100

Manufacturing Procedure

- In a suitable stainless steel tank equipped with a lightening type propeller mixer along with side sweep action, mix Part 1 together in the order listed and heat to 70-75°C.
- In Part 2 mix ingredients and heat to 75°C and mix until uniform.
- Add Part 2 to Part 1 under homogenization.
- Add Part 3 to Parts 1 and 2 under homogenization, mixing for 15 minutes.
- Switch to sweep mixing.
- Continue mixing and cooling gradually until 29-30° C.
- To change viscosity of product, modify Part 3 up or down.

Description

This is a low cost, sheer, non-whitening sunscreen. This sunscreen uses Kobo's Titanium Dioxide Dispersion, TNP50T7 and Kobo's Zinc Oxide Dispersion, TNP65FZS to achieve a UV-Balanced sunscreen with an SPF 15, PFA 5.

Notes

Active Ingredient(s)	
Titanium Dioxide	4.23%
Zinc Oxide	3.74%

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



www.koboproducts.com

January, 2010

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