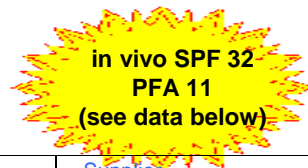


SPF 32 Balanced Sunscreen with

Formula KSL-160A

Methyl Trimethicone



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	27.00	MTM3F40T7	Methyl Trimethicone (And) Titanium Dioxide (And) Alumina (And) Hydrogen Dimethicone (And) Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	Kobo Products
	2.50	ABIL® Care 85	Bis-PEG/PEG-16/16 PEG/PEG 16/16 Dimethicone (And) Caprylic/Capric Triglyceride	Evonik
2	53.80	Deionized Water	Water	
	1.00	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	0.20	Crillet 4HP	Polysorbate 80	Croda
3	1.00	Glycerin	Glycerin	Cognis Corp.
	1.00	Butylene Glycol	Butylene Glycol	Ruger Chemical Co., Inc.
	0.35	Nomcort ZZ	Xanthan Gum	The Nisshin Oil Mills, Ltd.
	0.15	Natrosol HHX-250	Hydroxyethyl Cellulose	Hercules-Aqualon
4	10.00	Tinosorb® M	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol	Ciba Specialty Chemicals
5	2.20	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
	0.80	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP

100

Manufacturing Procedure

This is entirely a cold process procedure based on the strong emulsifying properties of ABIL® Care 85.

- In a suitable stainless steel tank equipped with a lightening type propeller mixer and side sweep action, mix Part 1 ingredients together.
- In Part 2 mix Polysorbate 80 and Glycerin first, and then add water, while mixing between additions.
- Add Part 2 to Part 1 with homogenization. Homogenize until uniform and a milky white emulsion forms.
- Mix Part 3 ingredients together (wet powders) and add to Parts 1 and 2 with mixing. Mix until it thickens.
- Add Part 4 to Parts 1, 2 and 3 with mixing. Mix until homogeneous.
- Add Part 5 to Parts 1, 2, 3 and 4 with mixing. Add one item at a time, mixing between additions.

Description

This UV Balanced Sunscreen formulation is an elegant O/W white emulsion with exceptional "feel". Kobo's Attenuation grade, volatile non-D5, Titanium Dioxide Dispersion, MTM3F40T7, used in combination with Tinosorb® M provides a balanced UV protection.

Tinosorb® cannot be used in the USA.

Notes

Active Ingredient(s)	Percentage
Titanium Dioxide	8.50%
Tinosorb M	10.00%

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

March, 2009

KOBO

www.koboproducts.com

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