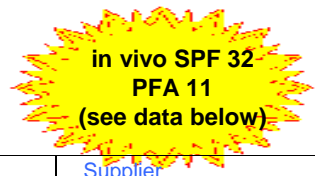


Balanced Sunscreen with DM2F40T7

Formula KSL-161



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	27.00	DM2F40T7	Dimethicone (And) Trisiloxane (And) Titanium Dioxide (And) Alumina (And) Methicone (And) 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	Paragon MEPB	Phenoxyethanol (And) Methyl Paraben (And) Ethyl Paraben (And) Butyl Paraben	McIntyre Group Ltd.

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Manufacturing Procedure

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

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

Description

Elegant O/W white emulsion with exceptional feel. Kobo's Volatile Non-D5 Titanium Dioxide Dispersion, DM2F40T7, is used in combination with Tinosorb® M, which results in a UV-Balanced formula with SPF 32, PFA 11.

Tinosorb® cannot be used in the USA.

Notes

Active Ingredient(s)	
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



www.koboproducts.com

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Formulations

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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