

Sunscreen with MTM Dispersions

Formula KSL-156



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	43.90	MTM3K50XZ4	Zinc Oxide (And) Methyl Trimethicone (And) PEG-10 Dimethicone (And) Methicone	Kobo Products
	5.80	MTM3F40T7	Methyl Trimethicone (And) Titanium Dioxide (And) Alumina (And) Hydrogen Dimethicone (And) Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	Kobo Products
	5.00	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	0.50	Crill 3	Sorbitan Stearate	Croda
2	38.80	Deionized Water	Water	
	3.50	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	0.50	Polysorbate 20	Polysorbate 20	Ruger Chemical Co., Inc.
100				

Manufacturing Procedure

- In main kettle, combine Part 1 ingredients and heat to 60-65°C.
- Mix Part 2 ingredients until uniform and add Part 1 under propeller. Mix until uniform. While at 65°C, homogenize for 2 minutes at 3500 rpm.
- Cool to 28°C (room temperature) with water bath.

Description

This transparent, daily-use sunscreen uses Kobo's Volatile Non-D5 Dispersions, MTM3K50XZ4 and MTM3F40T7, to achieve both a D5-free sunscreen and an SPF 28/PFA 8.

Notes

Active Ingredient(s)	
Titanium Dioxide	1.84%
Zinc Oxide	21.10%

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

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www.koboproducts.com

Formulations

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The Powder & Dispersion Specialist

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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