

W/O Waterproof Sunscreen

Formula KSL-011L

Est. SPF 37

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	7.50	SF1202	Cyclopentasiloxane	Momentive/Kobo Products
	6.00	Wickenol 151	Isononyl Isononanoate	Alzo International Inc.
	5.00	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	3.00	ABIL® Wax 9801	Cetyl Dimethicone	Evonik
	2.00	Ceraphyl® 45	Diethylhexyl Malate	ISP
	0.50	Glucate SS Methyl Glucoside Derivative	Methyl Glucose Sesquistearate	Noveon, Inc.
2	21.33	IN60S4	Titanium Dioxide (And) Isononyl Isononanoate (And) Stearic Acid (And) Aluminum Hydroxide	Kobo Products
3	51.07	Deionized Water	Water	
	2.50	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
4	0.60	Uniphen P-23	Phenoxyethanol (And) Methylparaben (And) Butylparaben (And) Ethylparaben (And) Propylparaben	Induchem
	0.50	Sodium Chloride	Sodium Chloride	Morton Salt
				100

Manufacturing Procedure

Use explosion-proof mixers and equipment during batching process

1. Premix Aculyn™ 44 into water under propeller at ambient temperature.
2. When Aculyn™ 44 is fully dissolved, add premixed Part 4 to Part 3.
3. Heat Part 1 to 75°C and cool to 65°C.
4. Add Part 2 to Part 1 under homogenization.
5. Return to propeller mixing and add premixed Parts 3 and 4 to Parts 1 and 2.

Description

This sunscreen uses a mixture of light esters and silicones to provide a nicely textured W/O emulsion that offers good application to the skin and water-resistance. Kobo's Titanium Dioxide Dispersion, IN60S4, helps to provide emollient feel and transparency.

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