Daily Wear UV Balanced Lotion

Formula KSL-136C

Part	Percent	Ingredients	INCI Name	Supplier
1	30.00	INH73MZ	Zinc Oxide (And) Isononyl Isononanoate (And) Polyglyceryl-6 Polyricinoleate (And) Isopropyl Titanium Triisostearate	Kobo Products
	5.00	KF-995	Cyclopentasiloxane	Shin Etsu
	5.00	CE45S4	Trioctyldodecyl Citrate (And) Titanium Dioxide (And) Stearic Acid (And) Aluminum Hydroxide	Kobo Products
	5.00	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	3.00	SILSOFT 034	Caprylyl Methicone	Momentive/Kobo Products
	1.00	ELEMENT14 PDMS 350	Dimethicone	Momentive/Kobo Products
	0.50	Crill 3	Sorbitan Stearate	Croda
2	43.81	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.
3	0.60	FAF40TRY	Cyclopentasiloxane (And) Iron Oxides (C.I. 77492) (And) Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone (And) Hydrogen Dimethicone (And) PEG/PPG-18/18 Dimethicone	Kobo Products
	0.08	FAF40TRR	Cyclopentasiloxane (And) Iron Oxides (C.I. 77491) (And) Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone (And) Hydrogen Dimethicone (And) PEG/PPG-18/18 Dimethicone	Kobo Products
	0.01	FAS60EBSI	Iron Oxides (C.I. 77499) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	Kobo Products
	100			

Manufacturing Procedure

1. In main kettle, combine Part 1 ingredients and heat to 60-65°C.
2. 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.
3. Cool to 28°C (room temperature) with water bath.

Description

This transparent/sheer daily-use sunscreen uses Kobo's Zinc Oxide Dispersion, INH73MZ, and Kobo's Titanium Dioxide Dispersion, CE45S4, to give a 3:1 ratio of SPF to PFA. This sheer formula is tinted with Kobo's FAF/FAS Dispersions of transparent Iron Oxides to reduce any whitening. Silsoft 034 and ELEMENT14 PDMS 350 are silicones that give excellent slip during application and afterfeel.

Notes

Active Ingredient(s)

Zinc Oxide	21.10%
Titanium Dioxide	1.84%

Kobo Products - formulations

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Kobo Products - formulations

Formulations

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The Powder & Dispersion Specialist

KOBO

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