

# Non-Nano Sunscreen Featuring GCP55TEL and GC70MZCJ

## Formula KSL-169A



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	37.63	Deionized Water	Water	
	0.90	Sodium Chloride	Sodium Chloride	Morton Salt
	0.20	Allantoin	Allantoin	RITA Corp
<b>2</b>	20.04	Finsolv® TN	C12-15 Alkyl Benzoate	Finetex
	11.90	<b>GCP55TEL</b>	Titanium Dioxide (And) Caprylic/Capric Triglyceride (And) Alumina (And) Silica (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
	6.62	<b>GC70MZCJ</b>	Zinc Oxide (And) Caprylic/Capric Triglyceride (And) Jojoba Esters (And) Silica	<b>Kobo Products</b>
	3.00	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
	3.00	Cetiol® CC	Dicaprylyl Carbonate	Cognis Corp.
	3.00	Floraesters® 15	Jojoba Esters	Floratch
	2.50	Arlacel P135	PEG-30 Dipolyhydroxystearate	Croda
	1.00	Cetiol® SB 45	Shea Butter	Cognis Corp.
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
	0.06	Propyl Paraben NF	Propylparaben	International Sourcing
	<b>3</b>	3.00	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer
<b>4</b>	4.00	<b>BPA-515</b>	Polymethyl Methacrylate (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>

100

### Manufacturing Procedure

- In a double jacketed stainless steel tank equipped with a lightening type mixer along with side sweep action, mix ingredients in Part 1 in the order listed.
- Heat Part 1 to 75°C.
- In a second double jacketed stainless steel tank equipped with a lightening type mixer heat Part 2 to 75°C.
- Add Part 1 to Part 2 very slowly with mixing using a lightening type mixer.
- Cool product slowly down to about to 45°C.
- Add Part 3 to main batch, one ingredient at a time, in the order listed.
- Switch mixing to side sweep.
- Cool emulsion further to 33°C with sweep action mixing.
- Add Part 4 under propeller.
- Homogenize at 4500 rpm for approximately 10 minutes.

### Description

This UV Balanced sunscreen uses Kobo's Non-Nano TiO<sub>2</sub> dispersion, GCP55TEL and Non-Nano ZnO dispersion, GC70MZCJ. These Non-Nano dispersions give a high SPF/UVA ratio. BPA-515 is an ITT treated sphere that gives excellent slip and non tacky drydown film on skin.

### Notes

Active Ingredient(s)	
Zinc Oxide	4.50%
Titanium Dioxide	6.00%

SPF testing: in vivo on 3 subjects

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## Formulations

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# The Powder & Dispersion Specialist

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