

Sprayable Sunscreen

Formula KSL-101B

Kobo Products - Formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	40.65	Deionized Water	Water	
	10.00	Keltrol CG (1% Aqueous Solution)	Xanthan Gum	CP Kelco
	4.00	Butylene Glycol	Butylene Glycol	Ruger Chemicals
	2.50	Ceralution F	Sodium Dicolylethylenediamine PEG-15 Sulfate (And) Sodium Lauroyl Lactylate	Condea Chemie
	2.00	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Liposerve™ PP	Phenoxyethanol (and) Methylparaben (And) Ethylparaben (and) Propylparaben (and) Butylparaben (and) Isobutylparaben	Lipo Chemicals
2	6.00	Salacos 99	Isononyl Isononanoate	Ikeda Corporation
	2.50	Lipocol® TD-12	Trideceth-12	Lipo Chemicals
	2.00	Ceralution H	Behenyl Alcohol (And) Glyceryl Stearate (And) Glyceryl Stearate Citrate (And) Sodium Dicolylethylenediamine PEG-15 Sulfate	Condea Chemie
	1.75	DC200/200 Fluid	Dimethicone	Dow Corning
	1.50	Softisan® 100	Hydrogenated Coco-Glycerides	Condea Chemie
	1.00	Lipex Shea	Butyrospermum Parkii (Shea Butter)	Jarchem Industries
	0.10	Vitamin E Acetate	Tocopheryl Acetate	BASF
3	25.00	TNP40VTTS	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	Kobo Products

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Manufacturing Procedure

1. In main kettle, combine Part 1 ingredients and heat to 80°C with Silverson mixing.
2. In side kettle, combine Part 2 ingredients and heat to 80°C. Mix until uniform.
3. Slowly add Part 2 to Part 1 and mix for 15-20 minutes using Silverson.
4. Begin cooling batch
5. At 40-45°C, slowly add Part 3 and mix well.
6. Continue cooling to 25°C.

Description

This sprayable sunscreen is an O/W emulsion that combines a vegetable base with Dimethicone and Shea Butter as skin protectants. Kobo's Titanium Dioxide Dispersion, TNP40VTTS, provides this formula with SPF and transparency on the skin.

Notes

Active Ingredient(s)	
Titanium Dioxide	8.00%

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Formulations

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The Powder & Dispersion Specialist

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