

W/O High SPF Suncare Emulsion

Formula KSL-043

Featuring TNP50ZSI

in vivo SPF 25
in vitro SPF 26
PFA 4
in vitro UVA
(see data below)

Part	Percent	Ingredients	INCI Name	Supplier
1	40.00	Deionized Water	Water	
	3.00	Propylene Glycol	Propylene Glycol	RITA Corp.
	2.00	Magnesium Sulphate	Magnesium Sulfate	Mallinckrodt
	0.15	Xanthan Gum	Xanthan Gum	CP Kelco
2	30.00	TNP50ZSI	C12-15 Alkyl Benzoate (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
	16.95	Ceraphyl® 375	Isostearyl Neopentanoate	ISP
	3.00	Arlacel P135	PEG-30 Dipolyhydroxystearate	Croda
	1.00	Emulsynt™ GDL	Glyceryl Dilaurate	ISP
3	2.50	CL-2080	Polyethylene	Kobo Products
	1.00	Liposatin® PE-35	Polyethylene	Lipo Chemicals
	0.40	Liquid Germall® Plus	Diazolidinyl Urea (And) Iodo Propynyl Butyl Carbamate	ISP

100

Manufacturing Procedure

1. Mix Part 1 in the order listed until homogeneous and smooth and heat to 80°C.
2. Heat and stir Part 2 to 80°C.
3. Add Part 1 to Part 2 slowly with homogenization.
4. Cool to 40°C and add ingredients listed under Part 3, in the order listed. Mix well after each addition.

Description

This sunscreen is an elegant W/O emulsion with great SPF and transparency. Kobo's Zinc Oxide Dispersion, TNP50ZSI, spreads easily and is transparent. CL-2080 adds a creamy feel and a matte appearance on the skin.

Notes

Active Ingredient(s)
Zinc Oxide 14.10%

SPF testing: in vivo on 3 subjects
UVA Testing: UVA Ratio = 0.85
Transpore Tape Method-Labsphere

Kobo Products - formulations

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The Powder & Dispersion Specialist

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