

Title: SPF Spray	Formulation #: KL4-89/2
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Luxurious and convenient SPF sprayable formulation that doesn't drip! Celltice™ enables this incredible formulation by functioning as the sole emulsifier of a significant UV filter load, all the while scavenging free radicals on the skin. A unique starting point formulation that will stand apart from the competition!

Feature	Product Type	Product Function	Method
	Sunscreen	Sun protection, Hydration	Hot process

Key Ingredients

Trade Name	INCI / OTC Name	Wt%
Phase A		
Deionized Water	Water	38.20
Keltrol® CG-T (CP Kelco)	Xanthan Gum	0.10
Glycerin (Various)	Glycerin	3.00
1,3 Butylene Glycol (Various)	Butylene Glycol	5.00
Versene™ Na ₂ (Dow Chemical)	Disodium EDTA	0.10
Potassium Sorbate (Various)	Potassium Sorbate	0.10
Celltice® WM (Renmatix)	Water (and) Acer Rubrum Extract (and) Glycerin	15.00
Phase B		
Dermol DIA (ALZO International)	Diisopropyl Adipate	5.00
Neo Heliopan® HMS (Symrise)	Homosalate	10.00
Neo Heliopan® OS (Symrise)	Octisalate	5.00
Neo Heliopan® 303 (Symrise)	Octocrylene	5.00
Neo Heliopan® 357 (Symrise)	Avobenzone	3.00
dermofeel® sensolv MB (Evonik)	Isoamyl Laurate	7.00

Phase C		
Xiameter™ PMX-200 Silicone Fluid 100CS (Dow Corning)	Dimethicone	2.00
NeoDefend™ (LotionCrafter)	Gluconolactone (and) Sodium Benzoate	1.50

Instructions:

- 1) In main vessel add Deionized Water. Dissolve Glycerin, Butylene Glycol, Versene Na₂. With rapid mixing disperse Keltrol CG-T. Mix until uniform.
- 2) With rapid mixing add Celltice WM.
- 3) Prepare sunscreen phase by combining all Neo Heliopan ingredients in secondary vessel. Heat to 60-80 °C until completely dissolved and uniform. Remove from heat.
- 4) Add remaining Phase B ingredients. Mix until uniform.
- 5) Add oil to cold water. Immediately homogenize until uniform. Add Xiameter PMX-200 Silicone Fluid 100CS and NeoDefend. QS if needed.

pH: 4.12

Viscosity: 6249*

*Brookfield LVDVII+ TF @ 6 rpm 1 min. Helipath on.

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