



SPF 30 Daily Wear Sunscreen

BOT.19.04.C

This anti-aging SPF 30 formulation designed for daily use demonstrates the benefits of incorporating Capsol™ to allow for lower use levels of sunscreen while achieving the same SPF level, enhancing aesthetics, and improving wear resistance and skin moisturization.

PHASE	%	INGREDIENT	INCI	FUNCTION
1	65.00	Deionized Water	Water	Aqueous Vehicle
1	0.25	Keltrol® CG-SFT	Xanthan Gum	Rheology Modifier
1	3.00	Glycerin	Glycerin	Humectant
2	4.00	Octocrylene	Octocrylene	UV Filter
2	1.00	Octyl Salicylate	Octisalate	UV Filter
2	2.00	Homosalate	Homosalate	UV Filter
3	2.00	Avobenzene	Butyl Methoxydibenzoylmethane	UV Filter
3	5.00	Finsolv® PG-22	Dipropylene Glycol Dibenzoate	Solubilizer
3	2.50	Cetiol® CC	Dicaprylyl Carbonate	Emollient
3	1.50	Lexfilm® Sun	Polyester-7 (and) Neopentyl Glycol Diheptanoate	Solubilizer
4	10.00	CapSol™	Carthamus Tinctorius (Safflower) Oleosomes (and) Water	Multi-functional Emulsifier
5	0.75	Aristoflex® AVC	Ammonium Acryloyldimethyltaurate/VP Copolymer	Thickener
6	1.50	White Birch BT	Water (and) Betula Alba Bark Extract (and) Phenoxyethanol (and) Sodium Benzoate	Active
6	1.50	Resveratrol BT	Water (and) Polygonum Cuspidatum Root Extract (and) Phenoxyethanol (and) Sodium Benzoate	Antioxidant
7	qs	Sodium Hydroxide Sol. 18%	Sodium Hydroxide	Neutralizing Agent
8	qs	Preservative	Preservative	Preservative
	100.00%			

PROCEDURE:

1. Premix Keltrol® CG-SFT and Glycerin into a slurry, then add to Deionized Water in main vessel with medium speed propeller stirring.
2. Add Phases 2 ingredients in side vessel and thoroughly mix with propeller stirring until homogeneous.
3. Premix Phase 3 ingredients while heating at 45°C until homogeneous, and then add to Phase 2 side vessel with continued thorough mixing.
4. Add Phase 4 to Phases 2-3 side vessel with continued thorough mixing at 300-400 rpm for 20 minutes, or until uniform.
5. Add combined Phases 2-4 ingredients to main vessel and continue thoroughly mixing at increased speed of 600-800 rpm for 20 minutes, or until uniform.
6. Slowly Add Phase 5 ingredient to main vessel with continued thorough mixing until homogeneous.
7. Switch to sweep blade and lower mixing speed. Add Phase 6 ingredients, one by one, and continue thoroughly mixing.
8. Use Phase 7 ingredient to adjust pH to 5.5 - 6.0.
9. Add Phase 8 ingredient and finish thoroughly mixing. Pour into suitable container(s).

Product: CapSol™

pH: 5.5-6.0

Stability: 1 month at 50°C

Formula Ref. #: 048-19B



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