



# SPF 60+ Sunscreen Cream

**BOT.19.03.C**

This lightweight SPF 60+ 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	63.20	Deionized Water	Water	Aqueous Vehicle
1	0.05	Aloe Vera 200X Powder	Aloe Barbadenis	Moisturizer
1	0.25	Keltrol® CG-SFT	Xanthan Gum	Rheology Modifier
1	3.00	Glycerin	Glycerin	Solubilizer
2	5.40	Octocrylene	Octocrylene	UV Filter
2	2.60	Octyl Salicylate	Octisalate	UV Filter
2	5.00	Homosalate	Homosalate	UV Filter
3	2.00	Avobenzene	Butyl Methoxydibenzoylmethane	UV Filter
3	5.00	Finsolv® PG-22	Dipropylene Glycol Dibenzoate	Emollient
4	10.00	CapSol™	<i>Carthamus Tinctorius</i> (Safflower) Oleosomes (and) Water	Multi-functional Emulsifier
5	1.50	Aristoflex® AVC	Ammonium Acryloyldimethyltaurate/VP Copolymer	Thickener
6	2.00	Allianz™ OPT	Acrylates/C12-22 Alkyl Methacrylate Copolymer	Film Former
7	qs	Sodium Hydroxide Sol. 18%	Sodium Hydroxide	Neutralizing Agent
8	qs	Preservative	Preservative	Preservative
	100.00%			

## PROCEDURE:

1. In main vessel, start mixing Deionized Water and Aloe Vera 200X Powder with medium speed propeller stirring. Premix Keltrol® CG-SFT and Glycerin into slurry, then add to main vessel and continue thorough mixing.
2. Add Phases 2 ingredients in side vessel with propeller mixing until homogeneous.
3. Premix Phase 3 ingredients, heat to 45°C, mix until homogenous then add to Phase 2 side vessel.
4. Add Phase 4 to Phase 2 side vessel, continue mixing with propeller, 300-400 rpm for 20 minutes.
5. Add combined Phases 2-4 to Phase 1 main vessel and continue mixing, increasing speed to 600-800 rpm, for 20 minutes or until uniform.
6. Add Phase 5 ingredients slowly while propeller mixing until homogeneous.
7. Switch to sweep blade, lower speed, and then add Phase 6 ingredient with continued mixing until uniform.
8. Adjust pH to 5.50 - 6.00 using Phase 7 ingredients while mixing.
9. Add Phase 8 ingredient while mixing until homogeneous. Shutdown.

**Product:** CapSol™

**pH:** 5.50-6.0

**Formula Ref. #:** 048-20



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