



# 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 Barbadensis	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	Avobenzone	Butyl Methoxydibenzoylmethane	UV Filter
3	5.00	Finsolv® PG-22	Dipropylene Glycol Dibenzoate	Emollient
<b>4</b>	<b>10.00</b>	<b>CapSol™</b>	<b><i>Carthamus Tinctorius (Safflower) Oleosomes (and) Water</i></b>	<b>Multi-functional Emulsifier</b>
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

**Stability:** 1 month at 50°C

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



Information contained in this literature is believed to be accurate and is offered in good faith for the benefit of the customer. This company, however, cannot assume any liability or risk involved with the use of its products since the conditions of use are beyond our control. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patents. The customer must insure that its uses of our products are non-infringing. We make no warranty of any kind, expressed or implies other than the material conforms to the standard applicable specifications.

Sales and Technical Support 403.668.6685

sales@botaneco.com