

Light and Airy SPF

UV-US-23-36148-80



Phase	Ingredients	INCI	% by weight	Function
A	Water, demin.	Water	66.62	
	Glycerin	Glycerin	4.00	Humectant
	Calcium Sulfate Dihydrate	Calcium Sulfate	0.20	Complexing Agent
B	Verdessence™ Xanthan	Xanthan Gum	0.50	Rheology modifier
	Verdessence™ Alginate	Algin	0.50	Rheology modifier
	Cutina® GMS-SE	Glyceryl Stearate SE	0.25	Emulsifier (O/W)
	Lanette® O	Cetearyl Alcohol	2.00	Consistency agent
	Cetiol® C 5C	Coco-Caprylate/Caprate	3.00	Emollient
	Parsol HMS (DSM)	Homosalate	7.50	
	Parsol EHS (DSM)	Ethylhexyl Salicylate (Octisalate)	3.00	UV-B filter
Emulgade® Verde 10MS	Polyglyceryl-10 stearate	2.00	Emulsifier (O/W)	
C	Z-Cote® Sheer	Zinc Oxide (and) Coco-Caprylate/Caprate (and) Polyglyceryl-2 Dipolyhydroxystearate (and) Lecithin	9.33	Broad spectrum UV filter
D	Euxyl PE 9010 (Ashland)	Phenoxyethanol, Ethylhexylglycerin	1.10	Preservative

Specifications

pH value (23°C)	7.2 - 7.8
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Performance

Additional performance has not been evaluated

Manufacturing Process

1. Combine phase A with prop mixing and begin heating to 75 C
2. Combine phase B with prop mixing and begin heating to 80 C
3. Add phase C to B at 60 C. Continue prop mixing until uniform.
4. At temp, add phase B/C to A- and homogenize at 5000rpm. Try to incorporate air. Batch will thicken.
5. Transfer to prop mix and begin cooling. Incorporate air as cooling.
6. Below 45 C, add phase D. Mix until uniform
7. Adjust pH to 7.2 using 25% citric acid solution.
8. Drop below 35 C
9. 24 hours later, re-adjust pH down to 7.2 with citric acid solution

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