



Dry-feel pickering sunscreen

ACTS20224

Description

Pickering emulsion giving easy, dry-feeling application and soft, powdery after-feel with ensulizole and avobenzone actives.

Phase	Ingredient	INCI name	Supplier	Function	Wt.%
A	Water	Water	—	—	48.70%
	Parsol® HS	Ensulizole	DSM	Active	4.00%
B	Tris Amino® Ultra PC	Tris(hydroxymethyl)-aminomethane	Angus	Neutralizer	3.00%
	Zemea® propanediol	Propanediol	CovationBio PDO	Humectant	4.00%
C	Pre-hydrated Ticaxan® Rapid-3 powder	Xanthan gum	TIC Gums	Polymer	0.30%
	Zemea® propanediol	Propanediol	CovationBio PDO	Humectant	4.00%
D	Cab-O-Sil M-5P	Silica	Cabot	Emulsifier	3.00%
	Water	Water	—	—	10.00%
E	Crodamol™ AB	C12-15 benzoate	Croda	Emollient	12.00%
	Parsol® 1789	Avobenzone	DSM	Active	3.00%
F	Span® 20	Sorbitan laurate	Croda	Dispersant	2.00%
G	Polargel® UV-1416	Water (and) bentonite (and) picea abies wood extract (and) sodium polyacrylate (and) titanium dioxide (and) xanthan gum (and) phenoxyethanol (and) ethylhexylglycerin	Mineralstech	Active	5.00%
	Spectrastat™ G2	Caprylhydroxamic acid (and) glyceryl caprylate (and) glycerin	Inolex	Preservative	1.00%
Total					100.00%

Formula provided by: ACT Solutions Corp., Newark, Delaware, USA

Procedure

1. Premix phase A then add phase B until AB is clear.
2. Premix phase C and D.
3. Add C to phase AB with propeller stirring.
4. Add D to ABC with propeller stirring.
5. Premix phase E, then add phase F to E.
6. Add EF to ABCD.
7. Add phase G with propeller stirring.
8. Add phase G.
9. Homogenize until smooth and glossy.