



## Dry-feel Pickering Sunscreen

**Description:** Pickering emulsion giving easy, dry-feeling application and soft, powdery after-feel with Ensulizole and Avobenzone actives.

Note: we have an improved process for producing the Pickering emulsions that will be used on an update; also, we will use the Angus Tris Amino in place of the sodium hydroxide, also simplifying the process and making consumers feel safer.

Phase	Ingredient	INCI Name	Supplier	Function	Wt. %
A	Water	Water	-	-	41.50%
B	Zemea® Propanediol	Propanediol	DuPont Tate & Lyle	Humectant	7.00%
	Parsol HS	Ensulizole	DSM	Active	4.00%
C	NaOH	Sodium Hydroxide		Neutralizer	5.20%
D	Zemea® Propanediol	Propanediol	DuPont Tate & Lyle	Humectant	8.00%
	Cab-O-Sil M-5	Silica	Cabot	Emulsifier	2.00%
	Keltrol CG	Xanthan Gum	CPKelco	Thickener	0.30%
	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	1.00%
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	UV Booster	5.00%
	Spectrastat G2	Caprylhydroxamic Acid (and) Glyceryl Caprylate (and) Glycerin	Inolex	Preservative	1.00%
Total					100.00%

**Procedure:**

1. Premix Phase B then add to Phase A.
2. Add Phase C until (AB) is clear.
3. Premix Phase D (in order from top to bottom).
4. Add (ABC) to Phase D with propeller stirring.
5. Premix Phase E, heat gently if necessary.
6. Add Phase F to Phase E.
7. Add (EF) to (ABCD) with propeller stirring.
8. Add Phase G.
9. Homogenize until smooth and glossy

Formula ACTS 20113 provided by: ACT Solutions Corp., Newark, Delaware, USA

**For additional information or samples:**

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