

# Hydrating Silk Sunscreen

## 24579



Phase	%	Tradename	INCI	Supplier	Function
A	33.2		Water		Solvent
A	0.2	Velsan SC	Sorbitan Caprylate	Clariant	Wetting agent
A	0.1	Tris Amino Ultra PC	Tromethamine	Advancion	Alkaline buffer
B	15.0	<b>ZEMEA</b>	Propanediol	CovationBIO	Moisturizer and more
B	3.0	Xicare 1305	Ammonium Styrene/MA Copolymer Ethanolamide	Aurorium	Dispersant
B	1.0	Solagum AX	Acacia Senegal Gum, Xanthan Gum	SEPPIC	Suspending agent
C	10.0	<b>MZ-500</b>	Zinc Oxide	MIFI Bioceuticals	Sunscreen
D	20.0		Caprylic/capric Triglyceride		Emollient
D	5.0	Poly SugaMulse D6	Sorbitan Oleate Decylglucoside Crosspolymer	Colonial Chemical	Emulsifier, wetting agent
D	2.0	CosmoSurf DDG-20	Bis-Octyldodecyl Dimer Dilinoleate/Propanediol Copolymer	SurfaTech	Dispersant, film former
E	10.0	<b>MZ-500</b>	Zinc Oxide	MIFI Bioceuticals	Sunscreen

Active ingredients: 20% Zinc Oxide

Water, Caprylic/Capric Triglyceride, Propanediol, Sorbitan Oleate Decylglucoside Crosspolymer, Ammonium Styrene/MA MEA Copolymer, Bis-Octyldodecyl Dimer Dilinoleate/Propanediol Copolymer, Acacia Senegal Gum, Xanthan Gum, Maltol, Polyquaternium-80, Sorbitan Caprylate, Tromethamine

## Procedure

1. Premix B then add to A with propellor or dispersion blade stirring
2. Add C to A/B with propellor or dispersion blade stirring until uniform and smooth
3. Premix D then add E with dispersion blade stirring until uniform and smooth
4. Add D/E to A/B/C with fast dispersion blade stirring until uniform and smooth

## Distinctives

- ✚ In-vitro SPF 39.6, CW 372.3nm
- ✚ Great-feeling, moisturizing O/W emulsion
  - 10% ZnO in water phase
  - 10% ZnO in oil phase
  - Using specialized dispersant for each phase