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WATER IN OIL SUNCREAM

REF- KR4/080

W/O Suncream with NANOX™ 200, Ultrafine Zinc Oxide and BENTONE GEL® IPM V, rheological additive.

Advantages

The presence of NANOX™ 200 Ultrafine Zinc Oxide in this system:

- In-Vitro SPF 44.74 +/- 7.2, and enhances Critical Wavelength, UVA/UVB Ratio and Boots Star Rating

The presence of BENTONE GEL® IPM V rheological additive in this system:

- Improves emulsion stability, and imparts viscosity and body

Ingredient	Supplier	% w/w
PHASE A		
BENTONE GEL® IPM V (Isopropyl Myristate and Stearalkonium Hectorite and Propylene Carbonate)	ELEMENTIS Specialties	2.5
Tegosoft OS (Ethylhexyl Stearate)	Evonik Degussa	13.5
Isohexadecane	Bayer	8.0
Parsol MCX (Ethylhexyl Methoxycinnamate)	Roche Vitamins	6.0
Lexol IPM-NF (Isopropyl Myristate)	Inolex	5.0
Tegin 4100 Pellets (Glyceryl Stearate)	Evonik Degussa	2.5
Abil EM 90 (Cetyl PEG/PPG 10-1 Dimethicone)	Evonik Degussa	2.5
Isolan GO 33 (Polyglyceryl 3-Oleate)	Evonik Degussa	1.75
PHASE B		
NANOX™ 200 (Zinc Oxide)	ELEMENTIS Specialties	10.0
PHASE C		
Deionised Water		43.55
Sodium Chloride	S. Black	0.75
Magnesium Sulphate Heptahydrate	S. Black	0.75
PHASE D		
1, 3-Butylene Glycol	Siber Hegner	3.0
Phenoxetol (Phenoxyethanol)	Clariant	0.2

Method of Manufacture

1. Heat Phase A together to 75°C.
2. Silverson homogeniser Phase B into Phase A for 20 minutes.
3. In a separate vessel add Phase C and heat to 75° C.
4. Using a Silverson homogeniser add Phase A + B into Phase C. Continue to mix for 20 minutes.
5. Cool slowly, using a propeller stirrer, to 35°C.
6. Add Phase D and stir until homogenous.

N.B.

Please refer to the Product Data Sheets for additional advice on incorporation.

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