ΕΛSTΜΛΝ

Zinc oxide sunscreen lotion with Eastman AQ[™] 38S polymer and Eastman Sustane[™] SAIB MCT

Part	Product name	Wt%	Ingredient/INCI name	Manufacturer
A	Deionized water	42.40	Water (aqua)	—
	Zemea [®]	2.00	Propanediol	DuPont Tate & Lyle
	Glycerin	2.00	Glycerin	Dow
	AMPHISOL [®] K	2.00	Potassium cetyl phosphate	DSM
	SAFIC'CARE T XGC 80	0.20	Xanthan gum	Safic-Alcan
	CELLOSIZE [™] hydroxyethyl cellulose (HEC)	0.40	Hydroxyethylcellulose	Dow
	Dermofeel® PA-1	0.10	Sodium phytate	Evonik-Dr. Straetmans
В	Eastman AQ [™] 38S polymer (30% solution)	10.00	Polyester-5	Eastman
С	Crodamol [™] AB	4.00	C12-15 alkyl benzoate	Croda
	SOFTISAN [®] 378	1.00	Caprylic/capric/myristic/stearic triglyceride	IOI Oleo
	Lipocol [™] SC-20	1.50	Ceteareth-20	Vantage
	Lipocol™ SC-1618	3.00	Cetearyl alcohol	Vantage
	Covi-Ox® T 50	0.50	Tocopherol	BASF
	TEGOSOFT [®] DCE	1.50	Diethylhexyl carbonate	Evonik Industries
	Cetiol [®] SN	2.00	Cetearyl isononanoate	BASF
	Cutina [®] GMS-SE	1.50	Glyceryl stearate SE	BASF
	Eastman Sustane [™] SAIB MCT	1.00	Sucrose acetate isobutyrate (and) caprylic/capric triglyceride	Eastman
	Tinogard® TT	0.10	Pentaerythrityl tetra-di-t-butyl hydroxyhydrocinnamate	BASF
	PARSOL [®] 340	6.00	Octocrylene	DSM
D	PARSOL [®] MCX	5.00	Ethylhexyl methoxycinnamate	DSM
	AEROSIL [®] 300	1.00	Silica	Evonik Industries
	Zinc oxide (micronized)	12.00	Zinc oxide	-
E	KEM DIOL	0.80	Phenoxyethanol (and) caprylyl glycol	Akema

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PROCEDURE

- 1. Weigh out part A into a clean, sanitized stainless steel vessel, and heat it to 80°-85°C.
- 2. Once at temperature, incorporate xanthan gum and hydroxyethylcellulose. Make sure that part A is completely dispersed before moving on to the next step.
- 3. Weigh out part C into a clean, sanitized stainless steel vessel, and heat it to 70°-75°C.
- 4. Once all part A is completely dissolved into the main vessel, add part C and increase the speed.
- 5. Once homogeneous, keep the temperature and incorporate part B. Mix until homogeneous.
- 6. Once homogeneous, incorporate part D and increase speed to 1200–1500 rpm.
- 7. Once homogeneous, start cooling down. Once < 50°C, incorporate part E.
- **8.** Adjust pH^{*} if required.

*pH @ 25°C: 5.5–6.0



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