

## Waterproof mascara with Eastman AQ™ 55S polymer

Part	Ingredient	Wt%	Quantity (grams)	INCI	Manufacturer
A	Deionized water	48.65	38.92	Water (aqua)	—
	Solagum™ AX	2.50	2.00	Acacia senegal gum (and) xanthan gum	SEPPIC
	Triethanolamine 90% Care	0.50	0.40	Triethanolamine	BASF
	Provitamin B5 powder	0.10	0.08	DL-panthenol	DSM
B	AQ 55S (solution 30%)	15.00	12.00	Polyester-5	Eastman
C	Beeswax	7.50	6.00	Beeswax (cera alba)	Strahl & Pitsch
	Carnauba wax	2.10	1.68	Carnauba wax	Strahl & Pitsch
	Microcrystalline wax pastille SP-16	3.00	2.40	Microcrystalline wax	Strahl & Pitsch
	Stearic acid USP (triple pressed)	5.00	4.00	Stearic acid	JEEN
	Foralyn™ 5020-F CG	1.50	1.20	Hydrogenated rosin ester	Synthomer
	Vitamin E	0.10	0.08	DL- <i>alpha</i> -tocopherol	DSM
	Crodamol™ GTCC	2.00	1.60	Caprylic/capric triglyceride	Croda
	Eutanol® G	1.50	1.20	Octyldodecanol	BASF
	XIAMETER™ PMX-200 Fluid	1.50	1.20	Dimethicone	Dow
D	Black iron oxide	8.00	6.40	CI 77499	—
E	Mineral base	0.25	0.20	Mica (and) zinc oxide (and) titanium	—
	KEM CP	0.80	0.64	Phenoxyethanol (and) chlorphenesin	Akema

*Continued >>>*

## Procedure

1. Weigh out part A into a clean, sanitized, stainless steel mixing vessel with mixer/homogenizer attachment, and heat it between 70° and 75°C. Incorporate Solagum at medium speed (500 rpm).
2. Weigh out part C heated to 70°–75°C and add to part A while mixing until parts A and C are homogeneous. (mix speed 800–1,000 rpm).
3. Once parts A and C are homogeneous, incorporate part B. Mix until homogeneous.
4. Stop heat and incorporate part D into parts A, B, and C (increase mix speed to 1,800–2,000 rpm). Mix until pigment is homogeneously dispersed.
5. Start cooling down. Incorporate part E at less than 50°C.
6. Adjust pH if required



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