

## GA Hydrophilics Mascara

GA Hydrophilic treated pigments disperse easily in water with ordinary stirring and distribute evenly in the deposited film to maximize color intensity and aid wear.

Ingredient	INCI Name	Supplier	%
<b>Phase 1- Water Phase</b>			
Deionized Water	Water/Aqua		43.50
Disodium EDTA	Disodium EDTA		.05
Tween® 60	Polysorbate 60	Croda	.05
Natrosol® 250 MR	Hydroxyethylcellulose	Ashland	.20
Tris Amino Ultra PC	Tromethamine	Angus Chemical Company	1.00
Deionized Water			3.00
GA-7403 Hydrophilic Black iron oxide	Iron Oxides, Galactoarabinan	Color Techniques	11.50
HOC-0801 Matte Kaolin	Kaolin Methyl Methacrylate Crosspolymer	Color Techniques	.50
Butylene Glycol	Butylene Glycol		5.00
<b>Phase 2- Water Phase</b>			
Emerso® I 132	Stearic Acid	Emery Oleochemicals	3.50
Cerasynt® SD	Glycerol Stearate	Ashland	3.50
White Beeswax	Beeswax		6.50
Carnauba #1	Copernica Cerifera (Carnauba) Wax		4.50
Ganex® V-220	VP/Eicosene Copolymer	Ashland	1.00
Avalure® UR-450	PPG-17/IPDI/DMPA Copolymer	The Lubrizol Corporation	15.00
Phenoxetol®	Phenoxyethanol	Clariant	.70
Hydrolite® CG	Caprylyl Glycol	Symrise	.50
			100.00

*Continued*

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### **Manufacturing Procedure:**

Water Phase 1- Combine Water, Disodium EDTA and Tween® 60, stirring until dissolved. Add Natursol® 250 MR. Begin heating to 75° C with low speed homogenization. Dissolve TRIS Amino in water. Add to water phase. Add pigment. Continue low speed homogenization. Add Butylene Glycol. Adjust temperature to 85-90° C.

Water Phase 2- Combine and heat to 85-90° C with stirring.

Emulsification- Add wax phase 2 to Water Phase 1 with homogenization. Maintain temperature and agitation for 15 minutes. Cool to 50° C with moderate homogenization.

Add Avalure® UR-450, avoid splashing.

Cool to 45° C. Combine Phenoxetol® and Hydrolite® CG. Add to batch.

Cool to 30° C with side-sweep agitation.