

Waterproof Mascara ARL-PTC5-66/1

Trade Name	INCI Name	Company	Percent
A Deionized Water	Water		23.25
B Ketrol T	Xanthan Gum	Kelco	0.28
B Butylene Glycol	Butylene Glycol		0.47
C Unipure LC989 AS	Iron Oxide/Triethoxycaprylsilane	Sensient	9.30
C Span 83	Sorbitan SESquioleate	Croda	0.47
D Paraffin SP 674	Paraffin Wax	Strahl & Pitsch	7.40
D PELEMOL HSA	12-Hydroxystearic Acid	Phoenix Chemical	5.58
D Stearic Acid	Stearic Acid	Lipo Chemical	6.51
D Beeswax 422P	Beeswax	Strahl & Pitsch	5.58
D PELEMOL D 2000	PPG-26/Dimer Dilinoleate Copolymer	Phoenix Chemical	0.93
D GIOVAREZ AC-5099M	Isododecane/Acrylates Copolymer	Phoenix Chemical	9.30
D GIOVAREZ BTB-50	Isododecane & Behenyl Methacrylate/ t-Butyl Methacrylate Copolymer	Phoenix Chemical	4.19
D Germaben II	Propylene Glycol/Diazoldinyl Urea/ Methylparaben & Propylparaben	Ashland	1.00
D Arlcel 165V	Glyceryl Stearate & PEG 100 Stearate	Croda	3.23
E Deionized Water	Water		10.88
E Triethanolamine 99%	Triethanolamine 99%	Dow	1.00
F GIOVAREZ P-0580	Polyurethane	Phoenix Chemical	9.30
			100.00

Procedure: Pre-mix **Phase B** and add to **Phase A** under homogenization, heat to 80-85C. Add **Phase C** and homogenize until pigment is dispersed. In a separate beaker heat **Phase D** to 80-85C. Once both phases are at temperature, add **Phase E**. Slowly add **Phase D** to **Phases ABCE**. Homogenize for 5 minutes. Switch to sweep mixing and cool batch. At 50C or less add Phase F. Cool to 30C and drop batch.

Characteristics of Mascara: Thick, glossy, black substantive emulsion

<u>Ingredients</u>	<u>Function</u>
PELEMOL HSA	Provides thickening and texture
PELEMOL D2000	Provides substantivity for waterproofing, and is an occlusive moisturizer
GIOVAREZ AC-5099	Polymer that provides a glossy, continuous, hard, water-insoluble film
GIOVAREZ BTB-50	Polymer that provides a glossy, continuous, hard, water-insoluble film
GIOVAREZ P0580	a high gloss, abrasion resistant coating derived from a low viscosity easy to apply aqueous emulsion