

**Natural Hair Conditioner No. 619**

		<b>Wt. %</b>
<b>A</b>	<b>VANATURAL</b> <sup>®</sup> Bentonite Clay	2.00
	<b>VANZAN</b> <sup>®</sup> NF Xanthan Gum	0.75
	Water	76.45
	Tetrasodium Glutamate Diacetate (Dissolvine <sup>®</sup> GL-47-S <sup>1</sup> )	0.20
	Propanediol (Zemea <sup>®</sup> propandiol <sup>2</sup> )	7.50
	Vegetable Derived Glycerin (Pricerine <sup>®</sup> 9091 <sup>3</sup> )	5.00
<b>B</b>	Glyceryl Stearate Citrate (Dermofeel <sup>®</sup> GSC <sup>4</sup> )	2.50
	Glyceryl Caprylate (Dermosoft <sup>®</sup> GMCY <sup>4</sup> )	0.20
	Plumeria Acutifolia Flower Extract (Campo <sup>™</sup> South Pacific True Monoi Oil <sup>5</sup> )	1.00
	Mixed Tocopherols (and) Soybean Oil (Decanox <sup>™</sup> MTS-50 <sup>6</sup> )	0.40
<b>C</b>	Water (and) Hydrolyzed Corn Starch (and) Beta Vulgaris (Beet) Root Extract (DayMoist CLR <sup>™7</sup> )	4.00
<b>D</b>	Preservative	q.s.
	Triethanolamine, 99%	q.s.

**Procedure:** While heating the water to 65-70°C, slowly add the **VANATURAL**<sup>®</sup> and **VANZAN**<sup>®</sup> **NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the rest of Part A ingredients and adjust the batch temperature to 65-70°C, if necessary. Combine Part B ingredients and heat to 65-70°C. When Part A and Part B are each at 65-70°C, add Part B to Part A slowly with adequate mixing. Cool with mixing to 40°C, then add Part C. Continue to cool to 30°C with mixing and add the preservative. If necessary, adjust the pH to 5.5 ± 0.5, with triethanolamine.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Akzo Nobel Surface Chemistry LLC, Bridgewater, NJ

<sup>2</sup>DuPont Tate & Lyle Bio Products Company, LLC, Wilmington, DE

<sup>3</sup>Croda, Inc., Edison, NJ

<sup>4</sup>Dr. Straetmans Chemische Produkte GmbH, Hamburg, Germany

<sup>5</sup>BioOrganic Concepts, Sante Fe Springs, CA

<sup>6</sup>ADM Natural Health and Nutrition Div., Decatur, IL

<sup>7</sup>Chemisches Laboratorium Dr. Kurt Richter GmbH, Berlin, Germany

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Rev09/18/2014