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## **Environmental and Blue Light Protection Lotion for Wipes No. 640**

	VV1.70
VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	2.00
VANZAN <sup>®</sup> NF Xanthan Gum	0.50
Water	82.00
Avena Sativa (Oat) Kernel Extract (and) Glycerin (and) Phenoxyethanol (Tech-O <sup>®</sup> #6-090 L <sup>1</sup> )	2.00
Propanediol (Zemea <sup>®</sup> Propanediol <sup>2</sup> )	5.00
PEG-20 Methyl Glucose Sesquistearate (Glucamate <sup>®</sup> SSE-20 Emulsifier <sup>3</sup> )	1.00
Methyl Glucose Sesquistearate (Glucate <sup>®</sup> SS Emulsifier <sup>3</sup> )	1.00
Caprylic/Capric Triglyceride (Neobee <sup>®</sup> M-5 <sup>4</sup> )	2.00
	0.50
Cetearyl Alcohol (TA-1618, Fatty Alcohol <sup>6</sup> )	2.00
Preservative	q.s.
Glycerin (and) Marrubium Vulgare Extract (Citystem <sup>®7</sup> )	2.00
Citric Acid, 20%	q.s.
	<ul> <li>VANZAN<sup>®</sup> NF Xanthan Gum Water Avena Sativa (Oat) Kernel Extract (and) Glycerin (and) Phenoxyethanol (Tech-O<sup>®</sup> #6-090 L<sup>1</sup>) Propanediol (Zemea<sup>®</sup> Propanediol<sup>2</sup>) PEG-20 Methyl Glucose Sesquistearate (Glucamate<sup>®</sup> SSE-20 Emulsifier<sup>3</sup>)</li> <li>Methyl Glucose Sesquistearate (Glucate<sup>®</sup> SS Emulsifier<sup>3</sup>) Caprylic/Capric Triglyceride (Neobee<sup>®</sup> M-5<sup>4</sup>) Tocopherol (Covi-ox<sup>®</sup> T-50 C<sup>5</sup>) Cetearyl Alcohol (TA-1618, Fatty Alcohol<sup>6</sup>)</li> <li>Preservative Glycerin (and) Marrubium Vulgare Extract (Citystem<sup>®7</sup>)</li> </ul>

**Procedure:** While heating the water to 60-65°C, slowly add the **VEEGUM**<sup>®</sup> *Ultra* and **VANZAN**<sup>®</sup> **NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Then, add the rest of the Part A ingredients and mix well after each. Maintain the water phase at 60-65°C. Combine the Part B ingredients (oil phase) and heat to 60-65°C. Add the oil phase to the water phase with good agitation; mix until uniform. Avoid incorporating air. Cool with mixing to <30°C, then add the preservative. Check the pH of the batch both prior to and after the incorporation of the Citystem. If necessary, adjust the pH to 5.0 ( $\pm$  0.25) with the citric acid, each time.

RAW MATERIAL SUPPLIERS	TRADEMARKS
<sup>1</sup> Beacon CMP Corporation, Kenilworth, NJ	VEEGUM and VANZAN are registered trademarks of Vanderbilt Minerals, LLC.
<sup>2</sup> DuPont Tate & Lyle Bio Products Company, LLC,	Citystem is a registered trademark of Sederma SAS France.
Wilmington, DE	Covi-ox is a registered trademark of Cognis Corporation.
<sup>3</sup> Lubrizol Advanced Materials, Inc., Cleveland, OH	Glucamate and Glucate are registered trademarks of Lubrizol Advanced Materials, Inc.
<sup>4</sup> Stepan Company, Northfield, IL	Neobee is a registered trademark of Stepan Company.
<sup>5</sup> BASF Corporation, Florham Park, NJ	Tech-O is a registered trademark of Beacon CMP Corporation.
<sup>6</sup> Peter Cremer, Cincinnati, OH	Zemea is a registered trademark of DuPont Tate & Lyle Bio Products Company, LLC.
<sup>7</sup> Croda, Inc., Edison, NJ	
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