



## MEN'S CARE FORMULARY

**VANATURAL®** Bentonite Clay    **VEEGUM®** Magnesium Aluminum Silicate    **VANZAN®** Xanthan Gum

**VANATURAL** Bentonite Clay (INCI Name: Bentonite) and **VEEGUM** Magnesium Aluminum Silicate (INCI Name: Magnesium Aluminum Silicate) are natural water-washed smectite clays that reliably stabilize personal care and pharmaceutical emulsions and suspensions.

**VANZAN** (INCI Name: Xanthan Gum) is a natural high molecular weight, exocellular polysaccharide derived from *Xanthomonas campestris*. Because of its protective function in nature, it is more resistant than are most gums to shear, heat, bacterial, enzyme, and UV degradation. **VANZAN** products are efficient thickeners as well as emulsion and suspension stabilizers. They also provide useful synergism with **VANATURAL** and **VEEGUM** clays.

### USING VANATURAL AND VEEGUM CLAYS

**VANATURAL** and **VEEGUM** products must be properly dispersed in water to provide their best performance. No other materials should be present in the water, because they can interfere with proper clay hydration and colloidal structure formation. The degree of clay hydration is directly proportional to the amount of energy used to disperse the product. The degree of hydration therefore increases as mixing time, mixing intensity or water temperature increase. One grade, **VEEGUM Ultra**, is relatively unaffected by changes in these mixing factors; adequate hydration can be achieved quickly, using room temperature water and a simple, slow-speed propeller mixer.

The following table provides guidelines for the minimum amounts of time for the hydration of **VANATURAL** and **VEEGUM** products. Actual hydration times, in the laboratory or in production, will depend on the particular combination of batch size, mixer shear, and water temperature used. Whichever mixing conditions are used, it is very important that they be carefully controlled to achieve reproducible results in the final formulation.

Water Temp.	Mixer Type	Mixer Speed, rpm	Minimum Suggested Mixing Time		
			VEEGUM R	VANATURAL	VEEGUM Ultra
25°C	Propeller	800	120 min.	30 min.	15 min.
75°C	Propeller	800	45 min.	20 min.	10 min.
25°C	Homogenizer	3000	30 min.	20 min.	10 min.
75°C	Homogenizer	3000	15 min.	10 min.	10 min.

### USING VANZAN XANTHAN GUM

**VANZAN** products are soluble in both cold and warm water. To dissolve quickly and completely, they must first be properly dispersed so that individual gum particles are surrounded by the aqueous medium. The individual particles then hydrate and dissolve. Good dispersion is promoted by high shear mixing, blending the gum particles into a water-miscible non-solvent such as a glycol or alcohol before addition to the aqueous phase, dry blending with other formula ingredients, such as co-thickeners, salts, acids, abrasives or pigments before addition to the aqueous phase.

### RECOMMENDED GRADES FOR SKIN AND HAIR CARE

Smectite Clays:

**VANATURAL**    Rapidly hydrating high purity bentonite clay for most personal care applications.

**VEEGUM Ultra**    A unique acidic smectite clay that is especially easy to hydrate.

**VEEGUM R**    The standard grade for a wide range of applications.

Xanthan Gum:

**VANZAN NF**    The standard grade for most personal care and pharmaceutical applications.

**VANZAN NF-C**    Produces clear solutions; used when product clarity is essential.

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**FORMULARY**

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**Aerosol Shave Cream for Sensitive Skin No. 503**

	<b>Wt. %</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate 1.5
	<b>VANZAN® NF</b> Xanthan Gum 0.3
	Water 67.2
<b>B</b>	Glycerin 3.0
	Butylene Glycol 3.0
<b>C</b>	Stearic Acid XXX 3.0
	Coconut Acid 3.0
	Safflower Oil 0.2
	Soybean Oil 0.2
	Cetyl Alcohol 1.0
	Dimethicone (XIAMETER® PMX-200 Silicone Fluid 350cs <sup>1</sup> ) 1.0
	Lanolin Alcohol 0.1
	Isosorbide Laurate 1.0
Mineral Oil 3.0	
<b>D</b>	Sodium Cocoyl Sarcosinate, 30% 10.0
	Panthenol 0.5
	Aloe Vera 0.5
<b>E</b>	Triethanolamine 1.5
	Preservative, Fragrance q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VEEGUM® Ultra** and **VANZAN® NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining water phase ingredients from Part B, mixing until uniform. Maintain the water phase at 75°C. Blend the Part C oil phase ingredients and heat to 75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool while mixing. Add the Part D ingredients when the emulsion is <40°C. Add the Part E ingredients when the emulsion is <35°C. Adjust as necessary to pH 7.5 ± 0.5.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Dow Corning Corporation, Midland, MI

**TRADEMARKS**
**VEEGUM** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC. Xiameter is a registered trademark of Dow Corning Corporation.

Rev04/25/2013

**Shaving Cream No. 501**

	<b>Wt. %</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate 2.0
	<b>VANZAN® NF</b> Xanthan Gum 0.5
	Water 74.5
<b>B</b>	Cetyl Alcohol 0.5
	Glyceryl Monostearate SE 3.0
	Caprylic/Capric Triglyceride (Neobee® M-5 <sup>1</sup> ) 2.0
	C12-15 Alkyl Benzoate (Finsolv® TN <sup>2</sup> ) 3.0
	Dimethicone (XIAMETER® PMX-200 Silicone Fluid 350cs <sup>3</sup> ) 3.0
	Lanolin Alcohol 1.0
Isosorbide Laurate 0.5	
Mineral Oil 5.0	
<b>C</b>	Sodium Lauroyl Sarcosinate, 30% 5.0
<b>D</b>	Triethanolamine or Citric Acid (to pH 5.75 ± 0.25) q.s.
	Preservative, Fragrance q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VEEGUM® Ultra** and **VANZAN® NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Maintain the water phase at 75°C. Blend the Part B oil phase ingredients and heat to 75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool while mixing. Add the Part C surfactant when the emulsion is <55°C. Add the Part D ingredients when the emulsion is <35°C. Adjust as necessary to pH 5.75 ± 0.25.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Stepan Company, Northfield, IL

<sup>2</sup>Innospec Active Chemicals, Edison, NJ

<sup>3</sup>Dow Corning Corporation, Midland, MI

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Rev07/01/2013

**Washing Cream for Sensitive Skin No. 505**

		<b>Wt. %</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate	2.0
	Water	63.0
<b>B</b>	Sodium Cocoyl Isethionate (Pureact™ I-78 <sup>1</sup> )	25.0
	Cocamidopropyl Hydroxysultaine (Mirataine® CBS <sup>2</sup> )	10.0
<b>C</b>	Preservative	q.s.

**Procedure:** While heating the water to 60-65°C, slowly add the **VEEGUM® Ultra** while agitating at maximum available shear. Continue mixing until fully hydrated. Maintaining temperature, slowly add Part B ingredients in the order shown, mixing after each addition until smooth and uniform. Cool with mixing to < 45°C and then add Part C. Adjust as necessary to pH 5.5 ± 0.5.

**RAW MATERIAL SUPPLIERS**<sup>1</sup>Innospec Active Chemicals, Edison, NJ<sup>2</sup>Solvay Novecare, Bruxelles, Belgium**TRADEMARKS****VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC.

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Pureact is a trademark of Innospec Performance Chemicals Company.

Rev01/31/2013

**Extra Mild Facial Cleanser No. 553**

		<b>Wt. %</b>
<b>A</b>	<b>VANZAN® NF-C</b> Xanthan Gum	1.0
	Water	76.2
<b>B</b>	C12-15 Alky Benzoate (Finsolv® TN <sup>1</sup> )	5.0
	PEG-14 Dimethicone (Dow Corning® 193 <sup>2</sup> )	1.2
<b>C</b>	Cocamidopropyl Betaine (Amphosol® CA <sup>3</sup> )	10.0
	Decyl Glucoside (Plantaren® 2000N <sup>4</sup> )	6.6
<b>D</b>	Preservative	q.s.

**Procedure:** Sift the **VANZAN® NF-C** into the water agitated at maximum available shear. Mix until completely dissolved. Blend Part B ingredients, then add to Part A and mix thoroughly. Add Part C ingredients separately and mix thoroughly after each addition. Avoid air entrapment. Add the preservative and mix until uniform.

**RAW MATERIAL SUPPLIERS**<sup>1</sup>Innospec Active Chemicals, Edison, NJ<sup>2</sup>Dow Corning Corporation, Midland, MI<sup>3</sup>Stepan Chemical Co., Northfield, IL<sup>4</sup>Cognis Corporation, Ambler, PA**TRADEMARKS****VANZAN** is a registered trademark of Vanderbilt Minerals, LLC.

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Dow Corning is a registered trademark of Dow Corning Corporation.

Finsolv is a registered trademark of Innospec Performance Chemicals Company.

Plantaren is a registered trademark of Cognis GmbH Corporation.

Rev07/01/2013

**Washing Gel with Tea Tree Oil No. 556**

	<b>Wt. %</b>
<b>A</b>	<b>VANZAN® NF-C</b> Xanthan Gum 1.00
	Water 72.32
	Disodium EDTA 0.05
<b>B</b>	Cocamidopropyl Betaine (Amphosol® CA <sup>1</sup> ) 10.00
	Decyl Glucoside (Plantaren® 2000 N <sup>2</sup> ) 6.60
	Water (and) Melaleuca Oil (and) Ethoxylated Castor Oil (and) Polysorbate 20 10.00
	(Water-Soluble Tea Tree Oil <sup>3</sup> )
<b>C</b>	Preservative q.s.

**Procedure:** Slowly add the **VANZAN® NF-C** to the water agitated at maximum available shear. Mix until fully dissolved. Add the disodium EDTA and mix until dissolved. Add the Part B ingredients in the order listed, mixing after each addition until uniform. Add Part C and mix until uniform. Adjust as necessary to pH 6.5 ± 0.5.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Stepan Company, Northfield, IL

<sup>2</sup>Cognis Corporation, Ambler, PA

<sup>3</sup>Southern Cross Botanicals PTY Ltd, Lennox Head, NSW, Australia

**TRADEMARKS**
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Amphosol is a registered trademark of Stepan Company.

Plantaren is a registered trademark of Cognis GmbH.

Rev07/01/2013

**Bisabolol Cleansing Gel No. 557**

		<b>Wt. %</b>
<b>A</b>	<b>VANZAN® NF-C</b> Xanthan Gum	1.00
	Water	80.74
	Disodium EDTA	0.05
<b>B</b>	Bisabolol (Alpha-Bisabolol Natural <sup>1</sup> )	0.20
	Ethanol, 96%	15.00
	Panthenol (and) Propylene Glycol (D-Panthenol 50P <sup>1</sup> )	1.00
	PEG-40 Hydrogenated Castor Oil (Cremophor® CO 40 <sup>1</sup> )	2.00
<b>C</b>	Preservative	q.s.

**Procedure:** Slowly add the **VANZAN® NF-C** to the water agitated at maximum available shear. Mix until fully dissolved. Add the disodium EDTA and mix until dissolved. Combine and mix the Part B ingredients until clear. Add Part B to Part A and mix until uniform. Add Part C and mix until uniform. Adjust as necessary to pH 6.5 ± 0.5.

**RAW MATERIAL SUPPLIERS**<sup>1</sup>BASF Corporation, Florham Park, NJ**TRADEMARKS****VANZAN** is a registered trademark of Vanderbilt Minerals, LLC.

Cremophor is a registered trademark of BASF Aktiengesellschaft Corporation.

Rev01/30/2013

**Green Tea Instant Face Mask No. 626**

	<b>Wt. %</b>
<b>VEEGUM® CH</b> Magnesium Aluminum Silicate	5
Kaolin Clay, Cosmetic Grade	67
Zinc Oxide or Calamine, USP	20
Polyvinylpyrrolidone (PVP K-30 <sup>1</sup> )	5
Allantoin	2
Camellia Sinensis Leaf Extract (Green Tea Extract <sup>2</sup> )	1

**Procedure:** Mix powders until uniformly blended.

**Use:** Mix powder with sufficient water, witch hazel or honey to make a spreadable paste.

**RAW MATERIAL SUPPLIERS**

<sup>1</sup>Ashland Specialty Ingredients, Wilmington, DE

<sup>2</sup>Greentech USA, Yarmouth, ME

**TRADEMARKS**

**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC.

Rev06/13/2016

**Body Wash Spray No. 500**

		<b>Wt. %</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate	2.0
	Water	58.5
<b>B</b>	Disodium Laureth Sulfosuccinate (Stepan Mild-SL3 <sup>1</sup> )	13.0
	Cocamidopropyl Hydroxysultaine (Mirataine® CBS <sup>2</sup> )	5.0
	Polysorbate 20 (Tween® 20 <sup>3</sup> )	1.5
	Cocaimdopropyl Betaine (Amphosol® CA <sup>1</sup> )	3.0
	Sodium Laureth Sulfate (Steol® CS-230 <sup>1</sup> )	14.0
	Jojoba Esters (Floresters™-15 <sup>4</sup> )	3.0
<b>C</b>	Preservative, Fragrance	q.s.

**Procedure:** Slowly add the **VEEGUM® Ultra** to the water while mixing at maximum available shear. Mix until fully hydrated. At reduced mixing speed, very slowly add the Part B ingredients in the order shown, mixing after each addition until uniform. Add the Part C ingredients and adjust as necessary to pH 5.5 ± 0.5.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Stepan Company, Northfield, IL

<sup>2</sup>Solvay Novecare, Bruxelles, Belgium

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

<sup>4</sup>Floritech Americas, Chandler, AZ

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Floresters is a trademark of International Flora Technologies, Ltd.

Mirataine is a registered trademark of Rhone-Poulenc, Inc.

Tween is a registered trademark of Uniqema Americas LLC

Rev04/25/2013

**Zinc Pyrithione Lotion Shampoo No. 364**

	<b>Wt.%</b>
<b>A</b>   VEEGUM® R Magnesium Aluminum Silicate	0.5
Water	51.1
Hydroxypropyl Guar (Jaguar HP-60 <sup>1</sup> )	0.5
<b>B</b>   Ammonium Lauryl Sulfate (Rhodapon™ L-22 <sup>1</sup> )	40.0
PPG-5-Ceteth-10 Phosphate (Crodafos™ SG <sup>2</sup> )	1.8
Lauramide DEA (Monamid® 716 <sup>2</sup> )	4.0
<b>C</b>   Zinc Pyrithione, 48% (Zinc Omadine® <sup>3</sup> )	2.1
Preservative	q.s.

**Procedure:** Slowly add the VEEGUM® R to the water agitated at maximum available shear. Mix until fully hydrated. Add the hydroxypropyl guar and mix until uniformly dispersed. With slow stirring add the Part B ingredients in order. Add the phosphate slowly, mixing until the guar gum is totally dissolved. Add the Part C ingredients in order listed, agitating slowly. Mix until smooth and uniform. Avoid incorporation of air. Adjust as necessary to pH 7.2.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Solvay Novecare, Bruxelles, Belgium

<sup>2</sup>Croda Inc., Edison, NJ

<sup>3</sup>Arch Personal Care Products L.P.,  
South Plainfield, NJ

**TRADEMARKS**

VEEGUM is a registered trademark of Vanderbilt Minerals, LLC.

Crodafos is a trademark of Croda, Inc.

Monamid is a registered trademark of Mona Industries, Inc.

Omadine is a registered trademark of Arch Chemicals, Inc.

Rhodapon is a trademark of Rhodia, Inc.

Rev07/01/2013

**Natural Exfoliant Scrub No. 576**

	<b>Wt.%</b>
<b>A</b>   <b>VANATURAL</b> <sup>®</sup> Bentonite Clay	3.00
<b>VANZAN</b> <sup>®</sup> NF Xanthan Gum	0.75
Water	75.75
<b>B</b>   Decyl Glucoside (Plantaren <sup>®</sup> 2000N <sup>1</sup> )	7.00
<b>C</b>   Cocamidopropyl Betaine (Amphosol <sup>®</sup> CA <sup>2</sup> )	3.00
Propylene Glycol (and) Water (and) <i>Mentha</i> Piperita (Peppermint) Leaf	2.00
Extract (and) <i>Mentha</i> Piperita (Peppermint) Oil (Aromaphyte of Peppermint <sup>3</sup> )	1.50
Water (and) Melaleuca Oil (and) Ethoxylated Castor Oil (and) Polysorbate 20 (Water-Soluble Tea Tree Oil <sup>4</sup> )	1.50
<b>D</b>   Zea Mays (Corn) Cob Powder (Processed Corn Cob (60/100)) <sup>5</sup>	5.00
<b>E</b>   Cocamide DEA (Ninol <sup>®</sup> 40-CO <sup>2</sup> )	2.00
<b>F</b>   Preservative	q.s.

**Procedure:** 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. Slowly add Parts B, C, D, E and F in order, mixing after each until smooth while avoiding air entrapment and foaming.

**RAW MATERIAL SUPPLIERS**

<sup>1</sup>Cognis Corporation, Ambler, PA

<sup>2</sup>Stepan Company, Northfield, IL

<sup>3</sup>Active Organics Inc., Lewisville, TX

<sup>4</sup>Southern Cross Botanicals PTY Ltd, Lennox Head, NSW, Australia

<sup>5</sup>Mt. Pulaski Products, Inc., Mt. Pulaski, IL

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Amphosol and Ninol are registered trademarks of Stepan Company.

Plantaren is a registered trademark of Cognis GmbH.

Rev07/01/2013

**Men's Facial Balm with Hyaluronic Acid No. 558**

	<b>Wt.%</b>
<b>A</b>   <b>VEEGUM® R</b> Magnesium Aluminum Silicate	1.0
<b>VANZAN® NF</b> Xanthan Gum	0.5
Water	93.1
<b>B</b>   Water (and) Triticum Vulgare (Wheat) Germ Extract (and) Saccharomyces Cerevisiae Extract (and) Sodium Hyaluronate (Eashave™ <sup>1</sup> )	4.0
Bisabolol ((±)-alpha-Bisabolol Synthetic <sup>2</sup> )	0.2
Aloe Barbadosensis Leaf Juice (Aloe Vera Gel Regular 40X-AG046 <sup>3</sup> )	1.0
Allantoin	0.2
<b>C</b>   Preservative	q.s.

**Procedure:** Slowly add the **VEEGUM® R** and **VANZAN® NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the Part B ingredients in the order listed and mix until uniform. Add Part C and mix until uniform. Adjust as necessary to pH 6.5 ± 0.5.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Pentapharm Ltd., Basel, Switzerland/Centerchem, Inc., Norwalk, CT

<sup>2</sup>BASF Corporation, Florham Park, NJ

<sup>3</sup>Terry Laboratories, Inc., Melbourne, FL

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Rev11/27/2018

**Waterless Skin Scrub with D-Limonene No. 479**

		<b>Wt.%</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate	2.0
	<b>VANZAN® NF</b> Xanthan Gum	0.6
	Water	51.7
<b>B</b>	Oleic Acid	10.0
	Mineral Oil	10.0
	Cetyl Alcohol	1.0
	Isosorbide Laurate	1.0
	Lanolin	1.0
<b>C</b>	Water	2.0
	Potassium Hydroxide	0.7
<b>D</b>	D-Limonene	10.0
<b>E</b>	Polyethylene Beads (A-C 9-A <sup>1</sup> )	10.0
<b>F</b>	Preservative, Fragrance	q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VEEGUM® Ultra** and **VANZAN® NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Maintain the water phase at 75°C. Blend the Part B oil phase ingredients and heat to 75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool while mixing. Add the Part C solution of potassium hydroxide in water when the emulsion is 45°C. Continue to cool while mixing and add Parts D, E and F when the emulsion is <35°C.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Honeywell Specialty Wax & Additives, Morristown, NJ

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Rev04/25/2013

**Oatmeal Lotion No. 586**

	<b>Wt. %</b>
<b>A</b>   <b>VANATURAL</b> <sup>®</sup> or <b>VANATURAL MC</b> Bentonite Clay	2.50
Water	73.25
<b>Avena Sativa (Oat) Kernel Flour (Tech-O</b> <sup>®</sup> #11-070 Oat Flour <sup>1</sup> )	1.00
<b>VANZAN</b> <sup>®</sup> <b>NF</b> Xanthan Gum	0.50
Sucrose Stearate (Sisterna <sup>®</sup> SP50-C <sup>2</sup> )	1.75
<b>B</b>   Sodium PCA (Ajidew <sup>®</sup> NL-50 <sup>3</sup> )	3.00
Glycerin, 96%	5.00
<b>C</b>   Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165-PW (AP) <sup>4</sup> )	2.00
Hydrogenated Polyisobutene (Parleam <sup>®5</sup> )	4.00
Mineral Oil (and) Lanolin Alcohol (Vilvanolin <sup>™</sup> L-101 <sup>6</sup> )	3.00
Cetyl Alcohol (Crodacol <sup>™</sup> C95-PA-MH <sup>4</sup> )	2.00
Isopropyl Myristate NF (RITA IPM <sup>7</sup> )	2.00
<b>D</b>   Preservative	q.s.
Citric Acid, 20%	q.s.

**Procedure:** While heating the water to 50-55°C, sift the **VANATURAL**<sup>®</sup> or **VANATURAL MC** into the water agitated at maximum available shear. Once dispersed, slowly sift in the oat flour. Mix until the **VANATURAL** or **VANATURAL MC** is fully hydrated and the oat flour is well dispersed. Add the **VANZAN**<sup>®</sup> **NF** and mix until dissolved. Add the sucrose stearate and mix until uniform. Add Part B ingredients and mix thoroughly. Maintain the water phase at 50-55°C. Blend the Part C oil phase ingredients and heat to 50-55°C. Add the oil phase to the water phase with good agitation; mix until uniform. Avoid incorporating air. Cool with mixing; add the preservative when the emulsion is <35°C. Adjust pH to 5.5 ± 0.5 with citric acid.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Beacon CMP Corporation, Kenilworth, NJ

<sup>2</sup>Sisterna B.V., The Netherlands (Dist. In US & Canada by MMP, Inc., South Plainfield, NJ)

<sup>3</sup>Ajinimoto USA, Inc., Fort Lee, NJ

<sup>4</sup>Croda, Inc., Edison, NJ

<sup>5</sup>Rossow USA, Inc., Matawan, NJ

<sup>6</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH

<sup>7</sup>RITA Corporation, Crystal Lake, IL

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Crodacol is a trademark of Croda, Inc.

Parleam is a registered trademark of Rossow.

Sisterna is a registered trademark of Sisterna B.V.

Tech-O is a registered trademark of Beacon CMP Corporation.

Vilvanolin is a trademark of Lubrizol Advanced Materials, Inc.

rev01/18/2018

**Conditioning Skin Cream with Jojoba Oil No. 571**

	<b>Wt. %</b>
<b>A</b>   <b>VANATURAL<sup>®</sup></b> or <b>VANATURAL MC</b> Bentonite Clay	2.0
Water	73.0
Butylene Glycol	5.0
<b>B</b>   Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone; Caprylic/capric triglyceride (Abil <sup>®</sup> Care 85 <sup>1</sup> )	1.5
Cetyl Alcohol (and) Glyceryl Stearate (and) PEG-75 Stearate (and) Ceteth-20 (and) Steareth-20 (Emulium <sup>®</sup> Delta <sup>2</sup> )	4.5
Cetyl Rinoleate (Tegosoft <sup>®</sup> CR <sup>1</sup> )	2.0
Simmondsia Chinesis (Jojoba) Seed Oil (Jojoba Oil Golden <sup>3</sup> )	6.0
Cyclomethicone (XIAMETER <sup>®</sup> PMX-0345 Cyclosiloxane Blend <sup>4</sup> )	6.0
<b>C</b>   Preservative, Fragrance	q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VANATURAL<sup>®</sup>** or **VANATURAL MC** while mixing at maximum available shear. Mix until fully hydrated. Add the butylene glycol, mixing until uniform. Maintain the water phase at 75°C. Blend the Part B oil phase ingredients and heat to 75-80°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add the Part C ingredients when the emulsion is <30°C.

**RAW MATERIAL SUPPLIERS**

<sup>1</sup>Evonik Goldschmidt Chemical Company, Hopewell, VA

<sup>2</sup>Gatefosse Corporation, Paramus, NJ

<sup>3</sup>Desert Whale Jojoba Co., Inc., Tucson, AZ

<sup>4</sup>Dow Corning Corporation, Midland, MI

**TRADEMARKS**

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Abil is a registered trademark of Goldschmidt GmbH Corporation.

Emulium is a registered trademark of Gatefosse SAS.

Tegosoft is a registered trademark of Goldschmidt GmbH.

Xiameter is a registered trademark of Dow Corning Corporation.

Rev04/17/2017

**Skin Softening Cream No. 575**

	<b>Wt.%</b>
<b>A</b>   <b>VANATURAL<sup>®</sup></b> or <b>VANATURAL MC</b> Bentonite Clay	2.0
Water	72.2
Butylene Glycol	5.0
<b>B</b>   Glyceryl Stearate SE (Cutina <sup>®</sup> GMS SE <sup>1</sup> )	9.0
Cetyl Alcohol (Crodacol <sup>™</sup> C-95 NF <sup>2</sup> )	1.2
Caprylic/Capric Triglyceride (Neobee <sup>®</sup> M-5 Cosmetic <sup>3</sup> )	1.5
C12-15 Alkyl Benzoate (Finsolv <sup>®</sup> TN <sup>4</sup> )	4.6
Decyl Oleate (Tegosoft <sup>®</sup> DO <sup>5</sup> )	2.0
PEG-14 Dimethicone (Abil <sup>®</sup> B 8843 <sup>5</sup> )	0.5
Phenyl Trimethicone (Dow Corning <sup>®</sup> 556 Cosmetics Grade Fluid <sup>6</sup> )	2.0
<b>C</b>   Preservative	q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VANATURAL<sup>®</sup>** or **VANATURAL MC** while mixing at maximum available shear. Mix until fully hydrated. Add the butylene glycol, mixing until uniform. Maintain the water phase at 75°C. Blend the Part B oil phase ingredients and heat to 75-80°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add Part C when the emulsion is <30°C.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Cognis Corporation, Ambler, PA

<sup>2</sup>Croda, Inc., Edison, NJ

<sup>3</sup>Stepan Company, Northfield, IL

<sup>4</sup>Innospec Active Chemicals, Edison, NJ

<sup>5</sup>Evonik Goldschmidt Chemical Corporation, Hopewell, VA

<sup>6</sup>Dow Corning Corporation, Midland, MI

**TRADEMARKS**
**VANATURAL** is a registered trademark of Vanderbilt Minerals, LLC.

Abil is a registered trademark of Goldschmidt GmbH Corporation.

Crodacol is a trademark of Croda, Inc.

Cutina is a registered trademark of Cognis IP Management GmbH.

Dow Corning is a registered trademark of Dow Corning Corporation.

Finsolv is a registered trademark of Innospec Performance Chemicals Company.

Neobee is a registered trademark of Stephan Company.

Tegosoft is a registered trademark of Goldschmidt GmbH.

Rev04/17/2017

**Vitamin-Enriched Skin Cream with Natural Moisturizers No. 545**

	<b>Wt.%</b>
<b>A</b>	<b>VEEGUM® R</b> Magnesium Aluminum Silicate 1.00
	<b>VANZAN® NF</b> Xanthan Gum 0.25
	Water 79.75
<b>B</b>	Butylene Glycol 5.00
	Disodium EDTA 0.20
	D-Panthenol USP 0.20
<b>C</b>	Macadamia Ternifolia Nut Oil (Australian Macadamia Nut Oil – Cosmetic Grade <sup>1</sup> ) 4.50
	Polyglyceryl-3 Distearate (Cremophor® GS32 <sup>2</sup> ) 3.00
	Ceteareth-25 (Cremophor® A25 <sup>2</sup> ) 1.50
	Cetearyl Alcohol 3.00
	Tocopherol Acetate (Vitamin E Acetate Oil USP, FCC <sup>2</sup> ) 0.50
<b>D</b>	Retinyl Palmitate (Vitamin A Palmitate <sup>2</sup> ) 0.10
<b>E</b>	Hyaluronic Acid (and) Water (Lipo Hyaluronic Acid 1% Solution) <sup>3</sup> 1.00
	Preservative q.s.

**Procedure:** While heating the water to 60-65°C, slowly add the **VEEGUM® R** and **VANZAN® NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add Part B and mix until uniform. Maintain the water phase at 60-65°C. Blend the Part C oil phase ingredients and heat to 60-65°C. Add Part C to Part A/B with good agitation. Cool with mixing. At 40-45°C add Part D. At 30°C add Part E. Adjust as necessary to pH 6.5 ± 0.5.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Southern Cross Botanicals PTY Ltd, Lennox Head, NSW, Australia

<sup>2</sup>BASF Corporation, Florham Park, NJ

<sup>3</sup>Vantage Specialty Ingredients (formerly Lipo Chemicals), Warren, NJ

**TRADEMARKS**
**VEEGUM** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC. Cremophor is a registered trademark of BASF SE.

Rev11/02/2017

**Skin Renewal Cream No. 573**

	<b>Wt. %</b>
<b>A</b>   <b>VANATURAL<sup>®</sup></b> or <b>VANATURAL MC</b> Bentonite Clay	2.5
Water	77.0
Glycerin	5.0
<b>B</b>   Cetearyl Alcohol (and) PEG-40 Castor Oil (and) Sodium Cetearyl Sulfate (Emulgade <sup>®</sup> F <sup>1</sup> )	5.0
Postassium Cetyl Phosphate (Crodafos <sup>™</sup> MCK <sup>2</sup> )	0.5
Dicaprylyl Carbonate (Cetiol <sup>®</sup> CC <sup>1</sup> )	5.0
C12-15 Alkyl Ethylhexanoate (Finester <sup>™</sup> EH-25 <sup>3</sup> )	5.0
<b>C</b>   Preservative	q.s.

**Procedure:** While heating the water to 80°C, slowly add the **VANATURAL<sup>®</sup>** or **VANATURAL MC** while mixing at maximum available shear. Mix until fully hydrated. Add the glycerin, mixing until uniform. Maintain the water phase at 80°C. Blend the Part B oil phase ingredients and heat to 80°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add Part C when the emulsion is <30°C.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>BASF Corp., Florham Park, NJ

<sup>2</sup>Croda, Inc., Edison, NJ

<sup>3</sup>Innospec Active Chemicals, Edison, NJ

**TRADEMARKS**
**VANATURAL** is a registered trademark of Vanderbilt Minerals, LLC.

Cetiol is a registered trademark of Cognis GmbH.

Crodafos is a trademark of Croda, Inc.

Emulgade is a registered trademark of Cognis GmbH.

Finester is a trademark of Innospec Performance Chemicals Company.

Rev04/17/2017

**Vitamin Enriched Barrier Cream No. 490**

	<b>Wt. %</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate 0.80
	Carbomer (Carbopol® 934 <sup>1</sup> ) 0.30
	Water 79.00
<b>B</b>	Glycerin 2.00
	Butylene Glycol 2.00
<b>C</b>	Cetyl Alcohol 0.50
	Glyceryl Monostearate SE 2.00
	Caprylic/Capric Triglyceride (Neobee® M-5 <sup>2</sup> ) 2.00
	C12-15 Octanoate (Finester™ EH-25 <sup>3</sup> ) 2.00
	Castor Oil/IPDI Copolymer (Polyderm™ PPI CO <sup>4</sup> ) 1.00
	Phenyl Dimethicone (DC 556 Fluid <sup>5</sup> ) 3.00
	Dimethicone (XIAMETER® PMX-200 Silicone Fluid 350cs <sup>5</sup> ) 1.00
	Bois Oil 0.50
	Steareth-2 (Brij® S2 <sup>6</sup> ) 0.95
	Steareth-21 (Brij® S721 <sup>6</sup> ) 0.95
<b>D</b>	Panthenol 1.00
	Vitamin E Acetate 0.50
	Vitamin A Palmitate 0.50
	Triethanolamine (to pH 5.8 ± 0.3) q.s.
<b>E</b>	Preservative, Fragrance q.s.

**Procedure:** Begin heating the water to 80°C. Slowly add the **VEEGUM® Ultra** and carbomer sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining water phase ingredients from Part B, mixing until uniform. Maintain the water phase to 80°C. Blend the Part C oil phase ingredients and heat to 80°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool while mixing; add the Part D and Part E ingredients when the emulsion is <35°C. Adjust as necessary to pH 5.8 ± 0.3.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Lubrizol Advanced Materials Inc., Cleveland, OH

<sup>2</sup>Stepan Company, Northfield, IL

<sup>3</sup>Innospec Active Chemicals, Edison, NJ

<sup>4</sup>Alzo International Inc., Sayreville, NJ

<sup>5</sup>Dow Corning Corporation, Midland, MI

<sup>6</sup>Croda, Inc., Edison, NJ

**TRADEMARKS**
**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC.

Brij is a registered trademark of Uniqema Americas LLC.

Carbopol is a registered trademark of Lubrizol Advanced Materials, Inc.

Finester is a registered trademark of Innospec Performance Chemicals Company.

Neobee is a registered trademark of Stepan Company.

Polyderm is a trademark of Alzo Investments.

XIAMETER is a registered trademark of Dow Corning Corporation.

Rev04/25/2013

**All Natural Shea Butter/Cocoa Butter Lotion No. 589**

	<b>Wt. %</b>
<b>A</b>   <b>VANATURAL</b> <sup>®</sup> Bentonite Clay	2.5
<b>VANZAN</b> <sup>®</sup> NF Xanthan Gum	0.5
Water	78.0
<b>B</b>   Cetearyl Wheat Straw Glycosides (and) Cetearyl Alcohol (Xyliance <sup>™1</sup> )	5.0
Orbignya Oleifera Seed Oil (Cropure <sup>®</sup> Babassu <sup>2</sup> )	5.0
Simmondsia Chinensis (Jojoba) Seed Oil (Jojoba Oil Golden <sup>3</sup> )	5.0
Butyrospermum Parkii (Shea) Butter (Tomaso Shea Butter <sup>4</sup> )	2.0
Theobroma Cacao (Cocoa) Seed Butter (Cocoa Butter NF <sup>5</sup> )	2.0
<b>C</b>   Preservative	q.s.

**Procedure:** While heating the water to 70-75°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. Maintain the water phase at 70-75°C. Blend the Part B oil phase ingredients and heat to 70-75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add Part C when the emulsion is <30°C.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Givaudan Active Beauty, New York, NY

<sup>2</sup>Croda, Inc., Edison, NJ

<sup>3</sup>Desert Whale Jojoba Co., Inc., Tucson, AZ

<sup>4</sup>Tri-K Industries, Inc., Northvale, NJ

<sup>5</sup>RITA Corporation, Crystal Lake, IL

**TRADEMARKS**
**VANATURAL** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC.

Cropure is a registered trademark of Croda, Inc.

Xyliance is a trademark of Soliance.

Rev01/21/2013

**Organic Skin Lotion No. 594**

	<b>Wt. %</b>
<b>A</b>	<b>VANATURAL</b> <sup>®</sup> Bentonite Clay 2.5
	<b>VANZAN</b> <sup>®</sup> NF Xanthan Gum 0.5
	Water 56.0
<b>B</b>	Aloe Vera Gel, from Aloe Vera Whole Leaf Powder Organic Spray Dried 100X <sup>1</sup> (1% powder/99% water) 20.0
<b>C</b>	Cetearyl Wheat Straw Glycosides (and) Cetearyl Alcohol (Xyliance <sup>TM2</sup> ) 5.0
	Butyrospermum Parkii (Shea) Butter (Shea Butter-Ultra Refined <sup>TM</sup> Certified Organic <sup>3</sup> ) 3.5
	Theobroma Cacao (Cocoa) Seed Butter (Cocoa Butter-Ultra Natural <sup>TM</sup> Certified Organic <sup>3</sup> ) 3.5
	Persea Gratissima (Avocado) Oil (Avocado Oil Certified Organic <sup>3</sup> ) 6.0
	Simmondsia Chinensis (Jojoba) Seed Oil (Jojoba Oil-Natural Golden-Certified Organic <sup>3</sup> ) 3.0
<b>D</b>	Preservative q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VANATURAL**<sup>®</sup> and **VANZAN**<sup>®</sup> NF (sequentially or as a dry blend) while mixing at maximum available shear. Mix until fully hydrated. Prepare Part B by dissolving aloe vera powder in water then add slowly to Part A. Maintain the water phase temperature at 75°C. Combine Part C ingredients and heat to 75°C. Add Part C oil phase to Part A/B water phase and mix thoroughly. Cool with mixing; add Part D when the emulsion is <30°C.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Terry Laboratories, Inc., Melbourne, FL

<sup>2</sup>Actives International, Allendale, NJ

<sup>3</sup>BioChemica Int'l, Inc., Melbourne, FL

**TRADEMARKS**
**VANATURAL** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC.

Ultra Natural and Ultra Refined are trademarks of BioChemica International, Inc.

Xyliance is a trademark of Soliance.

Rev01/30/2013

**Moisturizing Cream with Sunscreen No. 568**

		<b>Wt.%</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate	1.5
	Water	74.5
	Glycerin, 96%	4.0
	Zinc Oxide (Zinc Oxide Neutral <sup>1</sup> )	2.0
<b>B</b>	Emulsifying Wax NF (Polawax™ NF <sup>2</sup> )	12.0
	PPG-2 Myristyl Ether Propionate (Crodamol™ PMP <sup>2</sup> )	4.0
	Octyl Methoxycinnamate (Neo Heliopan® AV <sup>1</sup> )	2.0
<b>C</b>	Preservative	q.s.

**Procedure:** While heating the water to 75-80°C, slowly add the **VEEGUM® Ultra** while mixing at maximum available shear. Mix until fully hydrated. Add the remaining water phase ingredients, mixing until the zinc oxide is uniformly dispersed. Maintain the water phase at 75-80°C. Blend the Part B oil phase ingredients and heat to 75-80°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add Part C when the emulsion is <30°C.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Symrise, Teterboro, NJ

<sup>2</sup>Croda, Inc., Edison, NJ

**TRADEMARKS**
**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC.

Crodamol and Polawax are trademarks of Croda, Inc.

Neo Heliopan is a registered trademark of Haarmann &amp; Reimer GmbH.

Rev04/25/2013

**Wash-Off Resistant Sunscreen Cream No. 515**

	<b>Wt.%</b>
<b>A</b>	<b>VEEGUM® Ultra</b> Magnesium Aluminum Silicate 2.0
	Carbomer (Ultrez™ 10 <sup>1</sup> ) 0.2
	Water 47.8
<b>B</b>	Polysorbate 20 (Tween® 20 <sup>2</sup> ) 1.0
	Aqua (and) Titanium Dioxide (and) Alumina (and) Silica (and) Sodium 12.5
	Polyacrylate (and) Propylene Glycol (and) Diazolidinyl Urea (and) Methyl Paraben (and) Propyl Paraben (Tioveil® AQ-G <sup>2</sup> )
	Butylene Glycol 3.0
<b>C</b>	Cetyl Alcohol 0.5
	Isosorbide Laurate 1.0
	Caprylic/Capric Triglyceride (Neobee® M-5 <sup>3</sup> ) 5.0
	Glyceryl Monostearate SE (Cutina® GMS SE <sup>4</sup> ) 3.0
	C12-15 Octanoate (Finester™ EH-25 <sup>5</sup> ) 3.0
	Octylmethoxycinnamate (Parsol® MCX <sup>6</sup> ) 7.0
	Avobenzene (Parsol® 1789 <sup>6</sup> ) 2.0
	Octyl Salicylate (Dermoblock™ OS <sup>7</sup> ) 3.0
	Castor Oil/IPDI Copolymer (Polyderm™ PPI-CO <sup>7</sup> ) 1.0
	Phenyl Dimethicone (DC 556 Fluid <sup>8</sup> ) 3.0
	Dimethicone (XIAMETER® PMX-200 Silicone Fluid 350cs <sup>8</sup> ) 1.0
	Laureth-23 (Brij® L23 <sup>2</sup> ) 0.5
	Steareth-2 (Brij® S2 <sup>2</sup> ) 2.2
Steareth-21 (Brij® S721 <sup>2</sup> ) 2.2	
<b>D</b>	Etidronic Acid 0.1
<b>E</b>	Triethanolamine (to pH 6.0±0.5) q.s.
	Preservative q.s.

**Procedure:** Begin heating the water to 80°C. Slowly add the **VEEGUM® Ultra** and carbomer sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining water phase ingredients from Part B, mixing until uniform. Maintain the water phase at 80°C. Blend the Part C oil phase ingredients and heat to 85°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool with mixing; add the Part D and Part E ingredients when the emulsion is <45°C. Adjust as necessary to pH 6.0±0.5.

**Note:** The combination of TiO<sub>2</sub> and Avobenzene is not approved for use in the USA.

**RAW MATERIAL SUPPLIERS**

<sup>1</sup>Lubrizon Advanced Materials, Inc., Cleveland, OH

<sup>2</sup>Croda, Inc., Edison, NJ

<sup>3</sup>Stepan Company, Northfield, IL

<sup>4</sup>BASF Care Creations, Florham Park, NJ

<sup>5</sup>Innospec Active Chemicals, Edison, NJ

<sup>6</sup>Givaudan Corporation, Teaneck, NJ

<sup>7</sup>Alzo International, Inc., Sayreville, NJ

<sup>8</sup>Dow Corning Corporation, Midland, MI

**TRADEMARKS**

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Finester is a trademark of Innospec Performance Chemicals Company.

Neobee is a registered trademark of Stepan Company.

Parsol is a registered trademark of Givaudan Corporation.

Polyderm is a trademark of Alzo Investments.

Tioveil is a registered trademark of Acma Limited Corporation.

Ultrez is a trademark of Noveon IP Holdings.

Xiameter is a registered trademark of Dow Corning Corporation.

**Oil-Free Moisturizing Gel No. 508**

	<b>Wt.%</b>
<b>VANZAN<sup>®</sup> NF-C</b> Xanthan Gum	1.5
Glycerin, USP	20.0
Water	74.5
PPG-5-Ceteth-20 (Procetyl <sup>™</sup> AWS <sup>1</sup> )	1.0
Preservative	q.s.
Sodium PCA (Ajidew <sup>®</sup> N-50 <sup>2</sup> )	3.0

**Procedure:** Using the slowest mixing speed possible to avoid air entrapment, disperse the **VANZAN<sup>®</sup> NF-C** into the glycerin. Add the water and mix until the **VANZAN NF-C** is dissolved. Add the remaining ingredients in order, mixing until each is thoroughly incorporated.

**RAW MATERIAL SUPPLIERS**<sup>1</sup>Croda, Inc., Edison, NJ<sup>2</sup>Ajinomoto USA, Inc., Fort Lee, NJ**TRADEMARKS****VANZAN** is a registered trademark of Vanderbilt Minerals, LLC.

Ajidew is a registered trademark of Ajinomoto Company, Inc.

Procetyl is a trademark of Croda, Inc.

Rev02/05/2013

**Moisturizing Gel for Oily Skin with Hyaluronic Acid No. 554**

	<b>Wt.%</b>
<b>A</b>   Water	64.21
Sodium Hyaluronate (Lipo <sup>®</sup> Hyaluronic Acid, 1% Solution <sup>1</sup> )	1.00
Disodium EDTA	0.05
<b>B</b>   Butylene Glycol (and) Water (and) Equisetum Hyemale Extract (Actiphtye <sup>®</sup> of Horsetail BG50P <sup>2</sup> )	4.80
Butylene Glycol (and) Water (and) Hydrastis Canadensis (Golden Seal) Extract (Actiphtye <sup>®</sup> of Goldenseal BG50P <sup>2</sup> )	4.80
Butylene Glycol (and) Water (and) Cymbopogon Schoenanthus Extract (Actiphtye <sup>®</sup> of Lemongrass BG50P <sup>2</sup> )	4.80
Butylene Glycol (and) Water (and) Hamamelis Virginiana (Witch Hazel) Extract (Actiphtye <sup>®</sup> of Witch Hazel BG50P <sup>2</sup> )	4.80
Butylene Glycol (and) Water (and) Humulus Lupulus (Hops) Extract (Actiphtye <sup>®</sup> of Hops BG50P <sup>2</sup> )	4.80
<b>C</b>   Water (and) Polysorbate 20 (and) PEG-40 Hydrogenated Castor Oil (and) Melaleuca Alternifolia (Tea Tree) Leaf Oil (Water-Soluble Tea Tree Oil <sup>3</sup> )	9.70
<b>VANZAN<sup>®</sup> NF-C</b> Xanthan Gum	1.00
<b>D</b>   Preservative	q.s.
<b>E</b>   Triethanolamine	0.04

**Procedure:** Add Part A ingredients separately and mix thoroughly. Pre-blend Part B ingredients, add to the batch and mix until homogeneous. Add Part C ingredients separately, in the order shown. Sift the **VANZAN<sup>®</sup> NF-C** into an established vortex and mix until completely dissolved. The batch will thicken at this point. Add Part D and mix until homogeneous. Adjust pH to 6.5 ± 0.5 with triethanolamine.

**RAW MATERIAL SUPPLIERS**
<sup>1</sup>Vantage Specialty Ingredients, Warren, NJ

<sup>2</sup>Lipotec USA, Inc., Lewisville, TX

<sup>3</sup>Southern Cross Botanicals PTY Ltd, Lennox Head, NSW, Australia

**TRADEMARKS**
**VANZAN** is a registered trademark of Vanderbilt Minerals, LLC.

Actiphtye is a registered trademark of Active Organics, LP.

Lipo is a registered trademark of Lipo Chemicals, Inc.

Rev11/27/2018



# Vanderbilt Minerals, LLC

A Wholly Owned Subsidiary of R.T. Vanderbilt Holding Company, Inc.

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