

# FORMULARY ANTI-AGING No. 926





# ANTI-AGING FORMULARY

VANATURAL<sup>®</sup> Bentonite Clay VEEGUM<sup>®</sup> Magnesium Aluminum Silicate VANZAN<sup>®</sup> Xanthan Gum

**VANATURAL** Bentonite Clay (INCI Name: Bentonite) and **VEEGUM** Magnesium Aluminum Silicate (INCI Name: Magnesium Aluminum Silicate) are water-washed smectite clays that provide a natural alternative to synthetic polymers for reliably stabilizing personal care 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 to shear, heat, bacterial, enzyme, and UV degradation than are most gums. **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 suggested 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	Mixer	Mixer Speed	Minimum Suggested Mixing Time		
Temp	Туре	rpm	VEEGUM R	VANATURAL/MC	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 glycol or alcohol before addition to the aqueous phase, or 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 CARE**

Smectite Clays:	
VANATURAL MC	Rapidly hydrating high purity bentonite clay for most personal care applications.
VANATURAL	ECOCERT/COSMOS listed rapidly hydrating high purity bentonite clay.
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	I he standard grade for most personal care applications.
VANZAN NF-C	Produces clear solutions; used when product clarity is essential.



# FORMULARY

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# Nature's Defense Cream No. 572

		Wt.%
	VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay	2.0
Α	Water	76.5
	Pentylene Glycol (Hydrolite <sup>®</sup> -5 <sup>1</sup> )	5.0
В	Sucrose Stearate (Surfhope <sup>®</sup> SE Cosme C-1811 <sup>2</sup> )	3.0
	Cetearyl Alcohol	2.5
	Isohexadecane (Arlamol <sup>®</sup> HD <sup>3</sup> )	3.0
	Cetearyl Ethylhexanoate (Luvitol <sup>®</sup> EHO <sup>4</sup> )	3.0
	Squalane, ubiquinone (Lipogard™⁵)	4.0
	Dimethicone (Xiameter® PMX-200 Silicone Fluid 350cs6)	1.0
С	Preservative	q.s.

**Procedure:** While heating the water to 70°C, slowly add the **VANATURAL**<sup>®</sup> or **VANATURAL MC** while mixing at maximum available shear. Mix until fully hydrated. Add the pentylene glycol, mixing until uniform. Maintain the water phase at 70°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>Symrise, Teterboro, NJ <sup>2</sup>Lonza, Inc., Allendale, NJ <sup>3</sup>Croda, Inc., Edison, NJ <sup>4</sup>BASF Corp., Florham Park, NJ <sup>5</sup>Pentapharm, Ltd., Basel, Switzerland/Centerchem, Inc., Norwalk, CT <sup>6</sup>Dow Corning Corporation, Midland, MI

## TRADEMARKS

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# Beauty Fluid with Collagen No. 587

		<b>VVL.</b> /0
	VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay	2.50 73.00
Α	Avena Sativa (Oat) Kernel Flour (Tech <sup>®</sup> O #11-070 Oat Flour <sup>1</sup> )	0.50
	VANZAN <sup>®</sup> NF Xanthan Gum	0.50
	Sucrose Stearate (Surfhope <sup>®</sup> SE Cosme C-1811 <sup>2</sup> )	1.25
	Glycerin	6.00
В	Soluble Collagen (and) Water (aqua) (Collasol™ M <sup>3</sup> )	5.00
	Allantoin	0.25
	DEA-Oleth-3 Phosphate (Crodafos™ O3D³)	1.00
	Hydrogenated Polyisobutene (Parleam®4)	4.00
r	Mineral Oil (and) Lanolin Alcohol (Vilvanolin™ L-101 <sup>5</sup> )	3.00
C	Cholesterol and Lanesterol Esters of C10-C30 Fatty Acids (Super Sterol	2.00
	Dimethicone (Xiameter <sup>®</sup> PMX-200 Silicone Fluid 350cs <sup>6</sup> )	1.00
D	Preservative	q.s.
-	Triethanolamine	q.s.

**Procedure:** 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 in the order listed and mix until uniform. Combine Part C ingredients and mix until uniform. Add Part C to Part A/B and mix until uniform. Add the preservative and adjust pH to 6.5 ± 0.5 with triethanolamine.

RAW MATERIAL SUPPLIERS	TRADEMARKS
<sup>1</sup> Beacon CMP Corporation, Kenilworth, NJ <sup>2</sup> Lonza, Inc. Allendale, NJ	<b>VANATURAL</b> and <b>VANZAN</b> are registered trademarks of Vanderbilt Minerals, LLC.
<sup>3</sup> Croda, Inc., Edison, NJ	Parleam is a registered trademark of Rossow.
<sup>4</sup> Rossow Cosmetiques-USA, Laurel, NY <sup>5</sup> Lubrizol Advanced Materials, Inc., Cleveland, OH	Surfhope is a registered trademark of Mitsubishi Chemical Corporation. Tech-O is a registered trademark of Beacon CMP Corporation.
<sup>6</sup> Dow Corning Corporation, Midland, MI	Vilvanolin is a trademark of Lubrizol Advanced Materials, Inc. Xiameter is a registered trademark of Dow Corning Corporation.

Rev04/17/2017



# Anti-Aging Skin Cream No. 578

		Wt.%
	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	1.50
	VANZAN <sup>®</sup> NF Xanthan Gum	0.30
Α	Water	75.92
	Butylene Glycol	6.00
	Sucrose Stearate (Surfhope <sup>®</sup> SE Cosme C-1811 <sup>1</sup> )	3.00
	Steareth-2 (Brij <sup>®</sup> S2 <sup>2</sup> )	1.50
	Steareth-21 (Brij <sup>®</sup> S721 <sup>2</sup> )	1.50
	Cetearyl Alcohol	3.00
	Caprylic/Capric Triglyceride (Neobee <sup>®</sup> M-5 Cosmetic <sup>3</sup> )	2.50
	PPG-11 Stearyl Ether (Acconon <sup>®</sup> E <sup>4</sup> )	2.50
D	C12-15 Alkyl Benzoate (Finsolv <sup>®</sup> TN <sup>5</sup> )	1.00
D	Cyclmethicone (Xiameter <sup>®</sup> PMX-0345 Cyclosiloxane Blend <sup>6</sup> )	1.00
	Cholesterol (Cholesterol NF <sup>2</sup> )	0.10
	Linoleic Acid (Emersol <sup>®</sup> 315 <sup>7</sup> )	0.10
	Ceramide 2 (TIC-001 Ceramide 2 <sup>8</sup> )	0.025
	Ceramide 3 (Ceramide III <sup>9</sup> )	0.025
	Ceramide 6 II (Ceramide VI <sup>9</sup> )	0.025
С	Preservative	<b>a.s</b> .

**Procedure:** While heating the water to 85-90°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. Add the butylene glycol and sucrose stearate, mixing until uniform. Maintain the water phase at 85-90°C. Blend the Part B oil phase ingredients and heat to 85-90°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>Lonza, Inc., Allendale, NJ
<sup>2</sup>Croda, Inc., Edison, NJ
<sup>3</sup>Stepan Company, Northfield, IL
<sup>4</sup>Abitec Corporation, Columbus, OH
<sup>5</sup>Innospec Active Chemicals, Edison, NJ
<sup>6</sup>Dow Corning Corporation, Midland, MI
<sup>7</sup>Emery Oleochemicals, LLC, Cincinnati, OH
<sup>8</sup>Takasago International Corp., Rockleigh, NJ
<sup>9</sup>Evonik Goldschmidt Chemical Corporation, Hopewell, VA

#### TRADEMARKS

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# Conditioning Skin Cream with Jojoba Oil No. 571

VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay	2.0
Water	73.0
Butylene Glycol	5.0
Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone; Caprylic/capric	4 5
triglyceride (Abil <sup>®</sup> Care 85 <sup>1</sup> )	1.5
Cetyl Alcohol (and) Glyceryl Stearate (and) PEG-75 Stearate (and) Ceteth-20	45
(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
Preservative, Fragrance	a.s.
	VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay Water Butylene Glycol Bis-PEG/PPG-16/16 PEG/PPG-16/16 Dimethicone; Caprylic/capric triglyceride (Abil <sup>®</sup> Care 85 <sup>1</sup> ) Cetyl Alcohol (and) Glyceryl Stearate (and) PEG-75 Stearate (and) Ceteth-20 (and) Steareth-20 (Emulium <sup>®</sup> Delta <sup>2</sup> ) Cetyl Rinoleate (Tegosoft <sup>®</sup> CR <sup>1</sup> ) Simmondsia Chinesis (Jojoba) Seed Oil (Jojoba Oil Golden <sup>3</sup> ) Cyclomethicone (XIAMETER <sup>®</sup> PMX-0345 Cyclosiloxane Blend <sup>4</sup> ) Preservative, Fragrance

**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**

TRADEMARKS

<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

#### **VANATURAL** is a registered trademark of Vanderbilt Minerals, LLC. Abil is a registered trademark of Goldschmidt GmbH Corporation. Emulium is a registered trademark of Gattefosse SAS. Tegosoft is a registered trademark of Goldschmidt GmbH. Xiameter is a registered trademark of Dow Corning Corporation.

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# **Rejuvenating Lotion No. 574**

		<b>VVL.</b> /O
	VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay	2.0
Α	VANZAN <sup>®</sup> NF Xanthan Gum	0.5
	Water	72.5
	Butylene Glycol	3.0
	Cyclomethicone (and) Dimethicone (and) Petrolatum (Gel Base BSM-PT <sup>1</sup> )	7.0
в	Cyclometricone (and) Dimetricone (and) Ferrolatum (Ger Dase Dow-FT) C12-15 Alkyl Bonzosto (Eincoly <sup>®</sup> TN <sup>2</sup> )	1.0
	Cotoanyl Alcohol	4.0
	Clucorul Stoarate (and) DEC 100 Stearate (Arlacel® 1653)	5.0
	Givery Stearate (and) FEG-100 Stearate (Anacel <sup>®</sup> 105 <sup>°</sup> )	5.0
	Water (and) Aloe Barbedensis Leaf Extract (and) Yeast (Sacchromyces)	
С	Extract (Betavera <sup>®1</sup> )	5.0
	Preservative	q.s.
	1	•

**Procedure:** While heating the water to 70-75°C, slowly add the **VANATURAL**<sup>®</sup> or **VANATURAL MC** 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 butylene glycol, mixing until uniform. 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 the Part C ingredients in order when the emulsion is <30°C.

## **RAW MATERIAL SUPPLIERS**

<sup>1</sup>Arch Personal Care Products L.P., South Plainfield, NJ <sup>2</sup>Innospec Active Chemicals, Edison, NJ <sup>3</sup>Croda, Inc., Edison, NJ

## TRADEMARKS

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W/t %



# Moisturizing Lotion with Sunscreen No. 567

	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	1.0
	Water	77.3
А	Glycerin, 96%	2.7
	Zinc Oxide (Zinc Oxide Neutral <sup>1</sup> )	2.0
	Glyceryl Stearate (and) Ceteareth-20 (and) Ceteareth-12 (and) Cetearyl Alcohol (and) Cetyl Palmitate (Emulgade <sup>®</sup> SE-PF <sup>2</sup> )	6.0
Р	Glyceryl Stearate (Kessco™ GMS Pure³)	2.0
В	Caprylic/Capric Triglyceride (Neobee® M-5 <sup>3</sup> )	5.0
	Mineral Oil, USP/NF Grade	2.0
	Octyl Methoxycinnamate (Neo Heliopan <sup>®</sup> AV <sup>1</sup> )	2.0
С	Preservative, Fragrance	q.s.

**Procedure:** While heating the water to 85°C, slowly add the **VEEGUM**<sup>®</sup> *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 85°C. Blend the Part B 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 C ingredients when the emulsion is <30°C.

#### RAW MATERIAL SUPPLIERS

<sup>1</sup>Symrise, Teterboro, NJ <sup>2</sup>BASF Care Creations, Florham Park, NJ <sup>3</sup>Stepan Company, Northfield, IL

#### TRADEMARKS

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Rev04/25/2013

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

		¥¥L./0
	VANATURAL <sup>®</sup> Bentonite Clay	2.5
Α	VANZAN <sup>®</sup> NF Xanthan Gum	0.5
	Water	78.0
в	Cetearyl Wheat Straw Glycosides (and) Cetearyl Alcohol (Xyliance™1)	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 (Tomasa Shea Butter <sup>4</sup> )	2.0
	Theobroma Cacao (Cocoa) Seed Butter (Cocoa Butter NF <sup>5</sup> )	2.0
С	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

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Rev01/21/2013



# **Super Moisturizing Lotion No. 437**

		Wt.%
	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate	1.0
Α	VANZAN® NF Xanthan Gum	0.5
	Water	74.5
Р	Sodium PCA (Ajidew <sup>®</sup> N-50 <sup>1</sup> )	3.0
в	Glycerin	5.0
	Hydrogenated Polyisobutylene (Parleam <sup>®2</sup> )	4.0
	Mineral Oil (and) Lanolin Alcohol (Vilvanolin™ L-101 <sup>®3</sup> )	3.0
~	Cetyl Alcohol	2.0
C	Isopropyl Myristate	2.0
	Sorbitan Palmitate	1.2
	Polysorbate 40 (Tween <sup>®</sup> 40 <sup>4</sup> )	3.8
Р	Citric Acid to pH 5.5	q.s.
U	Preservative, Fragrance	q.s.

**Procedure:** While heating the water to 50-55°C, slowly add the **VEEGUM**<sup>®</sup> **R** and **VANZAN**<sup>®</sup> **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 dissolved. 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 Part D ingredients when the emulsion is <30°C.

#### **RAW MATERIAL SUPPLIERS**

<sup>1</sup>Ajinimoto USA, Inc., Fort Lee, NJ <sup>2</sup>Rossow Cosmetiques – USA, Matawan, NJ <sup>3</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH <sup>4</sup>Croda, Inc., Edison, NJ

#### TRADEMARKS

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# Skin Renewal Cream No. 573

		<b>VVL.</b> /0
	VANATURAL® or VANATURAL MC Bentonite Clay	2.5
Α	Water	77.0
	Glycerin	5.0
	Cotopryl Alcohol (and) REG 40 Castor Oil (and) Sodium Cotopryl Sulfato	
	(Emulaade <sup>®</sup> E <sup>1</sup> )	5.0
в	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™ EH-253)	5.0
C	Preservative	as
		Ч.:

**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

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Rev04/17/2017

VA/+ 0/



# Dry Skin Treatment Lotion No. 362

		VVL./0
	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate	1.40
	VANZAN <sup>®</sup> NF Xanthan Gum	0.35
A	Water	72.25
	Glycerin	4.00
	Cetyl Acetate (and) Acetylated Lanolin Alcohol (Acetulan <sup>®1</sup> )	4.00
в	C12-15 Alkyl Benzoate (Finsolv® TN <sup>2</sup> )	4.00
	Hydrogenated Polyisobutylene (Parleam <sup>®3</sup> )	3.00
	Cocoa Butter	4.00
	Petrolatum	2.00
	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165 VEG <sup>4</sup> )	5.00
С	Preservative, Fragrance	q.s.

**Procedure:** While heating the water to 70-75°C, slowly add the **VEEGUM**<sup>®</sup> **R** 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 glycerin, mixing until uniform. 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 the Part C ingredients in order when the emulsion is <30°C.

## RAW MATERIAL SUPPLIERS

<sup>1</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH <sup>2</sup>Innospec Active Chemicals, Edison, NJ <sup>3</sup>Rossow Cosmetiuqes – USA, Matawan, NJ <sup>4</sup>Croda, Inc., Edison, NJ

#### TRADEMARKS

**VEEGUM** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC. Acetulan is a registered trademark of The Lubrizol Corporation. Arlacel is a registered trademark of Uniqema Americas LLC. Finsolv is a registered trademark of Innospec Performance Chemicals Company. Parleam is a registered trademark of Rossow.

Rev01/21/2013

# Green Tea Instant Face Mask No. 626

	Wt.%
VEEGUM <sup>®</sup> CH 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

W/t %



# Moisturizing Cream with Sunscreen No. 568

	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	1.5
•	Water	74.5
A	Glycerin, 96%	4.0
	Zinc Oxide (Zinc Oxide Neutral <sup>1</sup> )	2.0
	Emulsifying Wax NF (Polawax™ NF²)	12.0
В	PPG-2 Myristyl Ether Propionate (Crodamol <sup>™</sup> PMP <sup>2</sup> )	4.0
	Octyl Methoxycinnamate (Neo Heliopan <sup>®</sup> AV <sup>1</sup> )	2.0
С	Preservative	q.s.

**Procedure:** While heating the water to 75-80°C, slowly add the **VEEGUM**<sup>®</sup> *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 & Reimer GmbH.

Rev04/25/2013

# Sun Protection Cream No. 566

		Wt.%
	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	1.0
•	Water	57.8
A	Glycerin, 96%	2.7
	Zinc Oxide (Zinc Oxide Neutral <sup>1</sup> )	10.0
В	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165 <sup>2</sup> )	4.0
	Ceteareth-20 (Eumulgin <sup>®</sup> B-2 <sup>3</sup> )	1.0
	Cetearyl Alcohol	3.0
	Caprylic/Capric Triglyceride (Neobee <sup>®</sup> M-5 <sup>4</sup> )	4.0
	Dicaprylyl Ether (Cetiol <sup>®</sup> OE <sup>3</sup> )	3.0
	Dimethicone (Xiameter <sup>®</sup> PMX-200 Silicone Fluid 350cs <sup>5</sup> )	1.0
	Octyl Salicylate (Neo Heliopan <sup>®</sup> OS <sup>1</sup> )	5.0
	Octyl Methoxycinnamate (Neo Helipan <sup>®</sup> AV <sup>1</sup> )	7.5

**C** | Preservative, Fragrance

q.s.

**Procedure:** Begin heating the water to 75-80°C. Slowly add the **VEEGUM**<sup>®</sup> *Ultra* to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining water phase ingredients; mix until the zinc oxide is uniformly dispersed. Maintain the water phase at 75-80°C. Heat Part B to 75-80°C. Add Part B to Part A; homogenize for 5 minutes at 75-80°C. Cool while mixing slowly to 40°C. Add Part C and mix until homogeneous.

## RAW MATERIAL SUPPLIERS

<sup>1</sup>Symrise, Teterboro, NJ <sup>2</sup>Croda, Inc., Edison, NJ <sup>3</sup>BASF Care Creations, Florham Park, NJ <sup>4</sup>Stepan Company, Northfield, IL <sup>5</sup>Dow Corning Corporation, Midland, MI

## TRADEMARKS

**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC. Arlacel is a registered trademark of Uniqema Americas LLC. Cetiol and Eumulgin are registered trademarks of Cognis GmbH Corporation. Neobee is a registered trademark of Stepan Company. Neo Heliopan is a registered trademark of Haarmann & Reimer GmbH. Xiameter is a registered trademark of Dow Corning Corporation.

Rev04/25/2013

# Washing Cream for Sensitive Skin No. 505

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

**Procedure:** While heating the water to 60-65°C, slowly add the **VEEGUM**<sup>®</sup> *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 <  $45^{\circ}$ 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. Mirataine is a registered trademark of Rhone-Poulenc, Inc. Pureact is a trademark of Innospec Performance Chemicals Company.

Rev01/31/2013

# Exfoliating Facial Scrub Containing Tea Tree Oil No. 555

		<b>VVL.</b> /O
	Water	71.13
Α	VANZAN <sup>®</sup> NF-C Xanthan Gum	1.10
	Disodium EDTA	0.05
	Cocamidopropyl Betaine (Amphosol <sup>®</sup> CA <sup>1</sup> )	10.00
в	Decyl Glucoside (Plantaren <sup>®</sup> 2000N <sup>2</sup> )	6.60
	Water (and) Melaleuca Oil (and) Ethoxylated Castor Oil (and) Polysorbate 20 (Water-Soluble Tea Tree Oil <sup>3</sup> )	10.00
	Melaleuca Alternifolia Leaf Powder (Melafresh® Exfol 1003)	1.00
c	Preservative	q.s.
C	Triethanolamine	0.12

**Procedure:** Sift the **VANZAN® NF-C** into the water agitated at maximum available shear. Mix until completely dissolved. Add Part B ingredients separately, mixing after each until uniform. Avoid air entrapment. Add the preservative and mix until uniform. Add triethanolamine to adjust pH to  $6.5 \pm 0.5$ .

## RAW MATERIAL SUPPLIERS

<sup>1</sup>Stepan Company, Northfield, IL <sup>2</sup>BASF Care Creations, Florham Park, NJ <sup>3</sup>Southern Cross Botanicals PTY Ltd., Lennox Head, NSW, Australia

## TRADEMARKS

**VANZAN** is a registered trademark of Vanderbilt Minerals, LLC. Amphosol is a registered trademark of Stepan Company. Melafresh is a registered trademark of Juldon Pty Ltd. Plantaren is a registered trademark of Cognis GmbH.

Rev01/21/2013

# Body Wash Spray No. 500

		WVL./0
Α	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	2.0
	Water	58.5
В	Disodium Laureth Sulfosuccinate (Stepan Mild-SL3 <sup>1</sup> )	13.0
	Cocamidopropyl Hydroxysultaine (Mirataine <sup>®</sup> CBS <sup>2</sup> )	5.0
	Polysorbate 20 (Tween <sup>®</sup> 20 <sup>3</sup> )	1.5
	Cocaimdopropyl Betaine (Amphosol <sup>®</sup> CA <sup>1</sup> )	3.0
	Sodium Laureth Sulfate (Steol® CS-2301)	14.0
	Jojoba Esters (Floresters™-15⁴)	3.0
С	Preservative, Fragrance	q.s.

**Procedure:** Slowly add the **VEEGUM**<sup>®</sup> *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  $\pm$  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>Floratech Americas, Chandler, AZ

## TRADEMARKS

**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC. Amphosol and Steol are registered trademarks of Stepan Company. 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



# **Clear After-Sun Moisturizing Gel No. 546**

Α	Water VANZAN <sup>®</sup> NF-C Xanthan Gum	83.85 1.00
в	Glycerin (and) Water (and) Sodium Polyacrylate (and) PVM/MA Copolymer (Zilgel™ Oil <sup>1</sup> ) Butylene Glycol (and) Water (and) Codium Tomentosum Extract	5.00 2.00
	(Codiavelane™ -BG/PF²)   Aloe Barbadensis Leaf Juice (Aloe Vera Gel, Regular 40X³)	1.00
С	Glycerin Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben (Germaben <sup>®</sup> II <sup>4</sup> )	1.00 1.00
	Water	5.00
D	Triethanolamine Color (optional)	0.15 q.s.

**Procedure:** Sift the **VANZAN® NF-C** Xanthan Gum into an established vortex and mix until completely dissolved. Add Part B ingredients separately, mixing after each addition until homogeneous. Pre-mix Part C and heat to clarity. Add the pre-mix to the batch and mix until clear and homogeneous. Adjust pH to 6.5 ± 0.5 with triethanolamine and add color, if desired.

## **RAW MATERIAL SUPPLIERS**

<sup>1</sup>Presperse, Inc., Somerset, NJ <sup>2</sup>Argan, Co., Northridge, CA <sup>3</sup>Terry Laboratories, LLC, Melbourne, FL <sup>4</sup>Ashland, Inc. (Ashland Specialty Ingredients), Wayne, NJ

#### TRADEMARKS

**VANZAN** is a registered trademark of Vanderbilt Minerals, LLC. Codiavalene is a trademark of Argan, Co. Germaben is a registered trademark of ISP Investments, Inc. Zilgel is a trademark of Presperse, Inc.

Rev02/05/2013



# Moisturizing Lotion with Hydractin® No. 551

A	Water VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate VANZAN <sup>®</sup> NF Xanthan Gum	<b>Wt.%</b> 88.00 2.00 1.00
в	Coco-Caprylate/Caprate (Cetiol <sup>®</sup> LC <sup>1</sup> ) DEA-Oleth-3 Phosphate (Crodafos™ O3D²)	5.00 1.00
С	Water (and) Glycerin (and) Disodium Adenosine Triphosphate (and) Algin (and) Carica (Papaya) Fruit Extract (Hydractin <sup>®3</sup> )	3.00
D	Preservative	q.s.

**Procedure:** Dry blend the **VEEGUM®** R and **VANZAN®** NF and sift (or add sequentially) into an established vortex in the water. Mix at maximum available shear until fully hydrated. Pre-mix components of Part B and add to Part A. Mix thoroughly under maximum available shear. Add Part C and mix under maximum available shear until homogeneous. Reduce speed, add Part D and mix until homogeneous.

## RAW MATERIAL SUPPLIERS

<sup>1</sup>BASF Corporation, Florham Park, NJ <sup>2</sup>Croda, Inc., Edison, NJ <sup>3</sup>RAHN AG, Zurich, Switzerland

#### TRADEMARKS

**VEEGUM** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC. Cetiol is a registered trademark of Cognis GmbH. Crodafos is a trademark of Croda, Inc. Hydractin is a registered trademark of Rahn AG.

Rev07/17/2017



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# BB Cream No. 617

VEECIM® / Managium Aluminum Ciliante	VVI.%
Water	1.50 59.62
Propanediol (Zemea <sup>®</sup> Propanediol <sup>1</sup> )	5.00
Disodium EDTA	0.20
Panthenol and Propylene Glycol (D-Panthenol 50-P <sup>2</sup> )	0.40
Iron Oxides (and) Microcrystalline Cellulose (C2-5 Yellow LLXLO <sup>3</sup> )	0.40
Iron Oxide (C.I. 77491) (and) Cellulose (C2-5 Red R-516L <sup>3</sup> )	0.10
Iron Oxide (C.I. 77499) (and) Cellulose (C2-5 Black BL-100 <sup>3</sup> )	0.03
Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO <sub>2</sub> CR-50 <sup>3</sup> )	3.50
Crambe Abyssinica Seed Oil (Fancor <sup>®</sup> Abyssinian Oil <sup>4</sup> )	2.50
Dimethicone (XIAMETER <sup>®</sup> PMX-200 Silicone Fluid 350cs <sup>5</sup> )	1.00
Polyglyceryl-3 distearate (Cremophor® GS 32 <sup>2</sup> )	3.10
Ceteareth-25 (Cremophor <sup>®</sup> A 25 <sup>2</sup> )	1.50
Cetearyl Alcohol	3.00
Glyceryl Stearate (and) PEG-100 Stearate (Arlacel®165 VEG <sup>6</sup> )	2.00
Ethyl Hexyl Methoxycinnamate (Neo Heliopan <sup>®</sup> AV')	7.50
Mica (Sericite GMS-4C <sup>3</sup> )	3.00
Mica (and) Titanium Dioxide (and) Ethylene/Methacrylate Copolymer (and) Isopropyl Titanium Triisostearate (SPC/KTZ Interval Gold-12 <sup>3</sup> )	0.15
Preservative	q.s.
Lactobacillus/Salix Alba Bark Ferment Filtrate (Prorevive BB Complex <sup>8</sup> )	5.50
Triethanolamine, 99%	q.s.
	<ul> <li>VEEGUM® Ultra Magnesium Aluminum Silicate Water</li> <li>Propanediol (Zemea® Propanediol<sup>1</sup>) Disodium EDTA</li> <li>Panthenol and Propylene Glycol (D-Panthenol 50-P<sup>2</sup>)</li> <li>Iron Oxides (and) Microcrystalline Cellulose (C2-5 Yellow LLXLO<sup>3</sup>) Iron Oxide (C.I. 77491) (and) Cellulose (C2-5 Red R-516L<sup>3</sup>) Iron Oxide (C.I. 77499) (and) Cellulose (C2-5 Black BL-100<sup>3</sup>) Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO<sub>2</sub> CR-50<sup>3</sup>)</li> <li>Crambe Abyssinica Seed Oil (Fancor® Abyssinian Oil<sup>4</sup>) Dimethicone (XIAMETER® PMX-200 Silicone Fluid 350cs<sup>5</sup>) Polyglyceryl-3 distearate (Cremophor® GS 32<sup>2</sup>) Ceteareth-25 (Cremophor® A 25<sup>2</sup>) Cetearyl Alcohol Glyceryl Stearate (and) PEG-100 Stearate (Arlacel®165 VEG<sup>6</sup>) Ethyl Hexyl Methoxycinnamate (Neo Heliopan® AV<sup>7</sup>) Mica (Sericite GMS-4C<sup>3</sup>)</li> <li>Mica (and) Titanium Dioxide (and) Ethylene/Methacrylate Copolymer (and) Isopropyl Titanium Triisostearate (SPC/KTZ Interval Gold-12<sup>3</sup>)</li> <li>Preservative Lactobacillus/Salix Alba Bark Ferment Filtrate (Prorevive BB Complex<sup>8</sup>) Triethanolamine, 99%</li> </ul>

**Procedure:** While heating the water to 70-75°C, slowly add the **VEEGUM**<sup>®</sup> **Ultra** while agitating at maximum available shear. Mix until fully hydrated. Add the remaining Part A water phase ingredients. Combine the Part B ingredients, then add to Part A and mix until smooth. Maintain the water phase at 70-75°C. Combine the Part C, oil phase ingredients and heat to 70-75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Switch to low shear mixing, then add the SPC/KTZ Interval Gold-12 (Part D). Cool while mixing to 30-35°C, then add the preservative followed by the Prorevive BB complex to the emulsion, mixing after each addition until uniform. Adjust as necessary to pH 6.0  $\pm$  0.5 with triethanolamine.

RAW MATERIAL SUPPLIERS	TRADEMARKS
<sup>1</sup> DuPont Tate & Lyle Bio Products Company, LLC,	VEEGUM is a registered trademark of Vanderbilt Minerals, LLC.
Wilmington, DE	Arlacel is a registered trademark of Uniqema Americas LLC.
<sup>2</sup> BASF Corporation, Florham Park, NJ	Cremophor is a registered trademark of BASF Aktiengesellschaft.
<sup>3</sup> Kobo Products, Inc., South Plainfield, NJ	Fancor is a registered trademark of Elementis Specialties, Inc.
<sup>4</sup> Elementis Specialties, Hightstown, NJ	Neo Heliopan is a registered trademark of Haarmann & Reimer GmbH.
<sup>5</sup> Dow Corning Corporation, Midland, MI	Xiameter is a registered trademark of Dow Corning Corporation.
<sup>6</sup> Croda, Inc., Edison, NJ	Zemea is a registered trademark of DuPont Tate & Lyle Bio Products Company, Inc.
<sup>7</sup> Symrise, Teterboro, NJ	
<sup>8</sup> Active Concepts, LLC, Lincolnton, NC	

Rev01/10/2014

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# CC Cream No. 618

Α	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate Water Propanediol (Zemea <sup>®</sup> Propanediol <sup>1</sup> ) Disodium EDTA Panthenol and Propylene Glycol (D-Panthenol 50-P <sup>2</sup> )	1.50 61.27 5.00 0.20 0.40
В	Iron Oxides (and) Microcrystalline Cellulose (C2-5 Yellow LLXLO <sup>3</sup> ) Iron Oxide (C.I. 77491) (and) Cellulose (C2-5 Red R-516L <sup>3</sup> ) Iron Oxide (C.I. 77499) (and) Cellulose (C2-5 Black BL-100 <sup>3</sup> ) Titanium Dioxide (and) Cellulose (and) Alumina (C2-5 TiO <sub>2</sub> CR-50 <sup>3</sup> )	0.40 0.10 0.03 3.50
с	Crambe Abyssinica Seed Oil (Fancor <sup>®</sup> Abyssinian Oil <sup>4</sup> ) Dimethicone (Xiameter <sup>®</sup> PMX-200 Silicone Fluid 350cs <sup>5</sup> ) Polyglyceryl-3 distearate (Cremophor <sup>®</sup> GS 32 <sup>2</sup> ) Ceteareth-25 (Cremophor <sup>®</sup> A 25 <sup>2</sup> ) Cetearyl alcohol Tocopherol Acetate (Vitamin E Acetate Care DL-alpha-Tocopherol acetate <sup>2</sup> ) Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165 VEG <sup>6</sup> ) Ethyl Hexyl Methoxycinnamate (Neo Heliopan <sup>®</sup> AV <sup>7</sup> ) Mica (Sericite GMS-4C <sup>3</sup> )	2.50 1.00 3.00 1.50 3.00 0.50 2.00 7.50 3.00
D	Glycyrrhizza Glabra (Licorice) Root Extract (Licorice Extract CG 4% <sup>8</sup> ) Ethanol, USP	0.50 3.00
Е	Retinyl Palmitate (Vitamin A Palmitate 1.7 Mio I.E./g <sup>2</sup> )	0.10
F	Preservative Triethanolamine, 99%	q.s. q.s.

**Procedure:** While heating the water to 70-75°C, slowly add the **VEEGUM**<sup>®</sup> *Ultra* while agitating at maximum available shear. Mix until fully hydrated. Add the remaining Part A water phase ingredients. Combine the Part B ingredients, then add to Part A and mix until smooth. Maintain the water phase at 70-75°C. Combine the Part C, oil phase ingredients and heat to 70-75°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool while mixing to 40-45°C. Dissolve the licorice extract in the ethanol under agitation and then add Part D to the emulsion. Warm the retinyl palmitate to liquefy and make uniform prior to weighing out. Add the retinyl palmitate and mix until uniform. Continue to cool while mixing to 30-35°C, then add the preservative. Mix until uniform. Adjust as necessary to pH 6.0  $\pm$  0.5 with triethanolamine.

RAW MATERIAL SUPPLIERS	TRADEMARKS
<sup>1</sup> DuPont Tate & Lyle Bio Products	VEEGUM is a registered trademark of Vanderbilt Minerals, LLC.
Company, LLC, Wilmington, DE	Arlacel is a registered trademark of Uniqema Americas LLC.
<sup>2</sup> BASF Corporation, Florham Park, NJ	Cremophor is a registered trademark of BASF Aktiengesellschaft.
<sup>3</sup> Kobo Products, Inc., South Plainfield, NJ	Fancor is a registered trademark of Elementis Specialties, Inc.
<sup>4</sup> Elementis Specialties, Hightstown, NJ	Neo Heliopan is a registered trademark of Haarmann & Reimer GmbH.
<sup>5</sup> Dow Corning Corporation, Midland, MI	Xiameter is a registered trademark of Dow Corning Corporation.
<sup>6</sup> Croda, Inc., Edison, NJ	Zemea is a registered trademark of DuPont Tate & Lyle Bio Products Company, LLC.
<sup>7</sup> Symrise, Teterboro, NJ	
<sup>8</sup> Sabinsa Corporation, Piscataway, NJ	



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