

# FORMULARY OVER-THE-COUNTER No. 927





Specialties Department

# **OVER-THE-COUNTER (OTC) & PERSONAL CARE 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 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 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 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.

			Minimum Suggested Mixing Time		
Water Temp.	Mixer Type	Mixer Speed rpm	VEEGUM R VEEGUM K	VANATURAL VEEGUM HS	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; Magnesium Aluminum Silicate NF Type IA
VEEGUM HV	The highest viscosity pharmaceutical grade; Magnesium Aluminum Silicate NF Type IC
VEEGUM K	A low acid demand, high electrolyte stability grade; Magnesium Aluminum Silicate NF Type IIA
VEEGUM HS	The highest stability to electrolytes and pH extremes; Purified Bentonite NF
Xanthan Gum:	
VANZAN NF	The standard grade for most personal care and pharmaceutical applications; Xanthan Gum NF
VANZAN NF-C	Produces clear solutions; used when product clarity is essential; Xanthan Gum NF

Rejuvenating Lotion No. 574

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FORMULARY		
TREATMENT & GROOMING		
Bismuth Subsalicylate Suspension No. 596	1	
Antacid Formulation No. 445	2	
Antacid Formulation No. 570	3	
Hydrocortisone Acetate Cream No. 366	4	
Benzocaine Cream No. 360	5	
Instant Sulfur Acne Treatment Mask No. 590	6	
Botanical Skin Lightening Lotion No. 492	7	
5% Benzoyl Peroxide Acne Treatment Lotion No. 356	8	
Intensive AHA Moisturizing Cream No. 484	9	
Antifungal Cream No. 355	10	
Mosquito Repellant Cream No. 457	11	
Calamine Lotion No. 361	12	
Zinc Pyrithione Lotion Shampoo No. 364	13	
External Analgesic Cream No. 369	14	
AHA Clay Mask No. 487	15	
Extra-Strength Roll-On Antiperspirant No. 443	16	
Soft-Gel Toothpaste No. 562	17	
Stay Dry W/O Antiperspirant Stick No. 341	18	
Roll-on Antiperspirant No. 629	19	
Sulfur and Salicylic Acid Acne Treatment Wash No. 583	0.0	
Washing Cream for Sensitive Skin No. 505	20	
Bisabolol Cleansing Gel No. 557	21	
Washing Gel with Tea Tree Oil No. 556	22	
Extra Mild Facial Cleanser No. 553	23	
Natural Exfoliant Scrub No. 576	24	
Green Tea Instant Face Mask No. 626	25	
Exfoliating Facial Scrub Containing Tea Tree Oil No. 555	20	
Aloe & Oat Instant Mask No. 591	27	
	20	
SKIN CARE		
Moisturizing Cream with Sunscreen No. 568	29	
Moisturizing Lotion with Sunscreen No. 567	30	
Anti-Aging Skin Cream No. 578	31	
Organic Skin Lotion No. 594	32	
All Natural Shea Butter/Cocoa Butter Lotion No. 589	33	
Cracked Skin Lotion No. 586	34	
Oatmeal and Macadamia Cream No. 588	35	
Skin Softening Cream No. 575	36	



# **Bismuth Subsalicylate Suspension No. 596**

		Wt.%
	VEEGUM <sup>®</sup> HS Magnesium Aluminum Silicate	1.6
Α	VANZAN® NF Xanthan Gum	0.4
	Water	94.2
	Sodium Salicylate	0.1
в	Sorbic Acid	0.1
	Sodium Saccharin	0.2
	Bismuth Subsalicylate SG <sup>1</sup>	3.4

**Procedure:** Slowly add the **VEEGUM**<sup>®</sup> **HS** 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 ingredients in order, mixing after each addition until uniform. Mix suspension slowly as necessary to de-aerate before packaging.

RAW MATERIAL SUPPLIERS <sup>1</sup>MCP Metalspecialties, Fairfield, CT/MCP HEK Gmbh, Lubeck, Germany

### TRADEMARKS

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Rev01/30/2013

# **Antacid Formulation No. 445**

		Wt.%
	VEEGUM <sup>®</sup> HS Magnesium Aluminum Silicate	0.25
Α	VANZAN <sup>®</sup> NF Xanthan Gum	0.28
	Water	61.69
_	Methylparaben	0.10
В	Propylparaben	0.05
С	Sorbitol, 70%	14.30
П	Barcroft <sup>™</sup> Aluminum Hydroxide GEL LV 13 USP <sup>1</sup> , 20% AI(OH) <sub>3</sub>	11.33
	Barcroft™ Magnesium Hydroxide Paste USP¹, 30% Mg(OH)₂	12.00

**Procedure:** Slowly add the **VEEGUM<sup>®</sup> HS** and **VANZAN<sup>®</sup> NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Add Parts B, C and D in order, mixing after each addition until uniform.

**RAW MATERIAL SUPPLIERS** <sup>1</sup>SPI Pharma Group, New Castle, DE TRADEMARKS

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# **Antacid Formulation No. 570**

A	VEEGUM <sup>®</sup> HV Magnesium Aluminum Silicate Water	<b>Wt.%</b> 1.25 60.97
в	Methylparaben Propylparaben	0.10 0.05
С	Sorbitol, 70%	14.30
D	Barcroft <sup>™</sup> Aluminum Hydroxide GEL LV 13 USP <sup>1</sup> , 20% AI(OH) <sub>3</sub> Barcroft <sup>™</sup> Magnesium Hydroxide Paste USP <sup>1</sup> , 30% Mg(OH) <sub>2</sub>	11.33 12.00

**Procedure:** Slowly add the **VEEGUM<sup>®</sup> HV** to the water agitated at maximum available shear. Mix until fully hydrated. Add Parts B, C and D in order, mixing after each addition until uniform.

**RAW MATERIAL SUPPLIERS** <sup>1</sup>SPI Pharma Group, New Castle, DE TRADEMARKS

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# Hydrocortisone Acetate Cream No. 366

	VEEGUM <sup>®</sup> K Magnesium Aluminum Silicate	1.50
	Water	66.49
Α	Citric Acid	0.01
	Polysorbate 80 (Tween <sup>®</sup> 80 <sup>1</sup> )	0.50
	Hydrocortisone Acetate	0.50
	C12-15 Alkyl Benzoate (Finsolv <sup>®</sup> TN <sup>2</sup> )	10.00
-	Hydrogenated Polyisobutylene (Parleam <sup>®3</sup> )	5.00
в	C18-C36 Acid (Syncrowax™ AW1-C⁴)	4.00
	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165 <sup>1</sup> )	12.00

**C** | Preservative

q.s.

Wt %

**Procedure:** While heating the water to 75-80°C, slowly add the **VEEGUM**<sup>®</sup> **K** to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining Part A ingredients and mix until uniform. Maintain the water phase at 75-80°C. Blend the Part B oil phase ingredients and heat to 75-80°C. Add Part B to Part A with good agitation. Cool with mixing; add the preservative when the emulsion is <40°C.

### **RAW MATERIAL SUPPLIERS**

<sup>1</sup>Uniqema, New Castle, DE <sup>2</sup>Innospec Active Chemicals, Edison, NJ <sup>3</sup>Rossow USA, Highlands, NJ <sup>4</sup>Croda, Inc., Edison, NJ

### TRADEMARKS

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Rev01/30/2013

VA/+ 0/

# Benzocaine Cream No. 360

		VVL. /0
	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate	1.5
^	Water	56.8
А	Propylene Glycl	3.0
	10% Silicone Emulsion (FG-10 Antifoam Emulsion <sup>1</sup> )	0.2
	Mineral Oil, Light	10.0
	Acetylated Lanolin Alcohol (Acetulan <sup>2</sup> )	7.0
	Menthol, USP	1.0
В	Benzocaine, USP	5.0
	Polysorbate 60 (Tween <sup>®</sup> 60 <sup>3</sup> )	0.5
	C18-C36 Acid (Syncrowax™ AW1-C⁴)	3.0
	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165 <sup>3</sup> )	12.0

**C** Preservative

q.s.

**Procedure:** While heating the water to 75-80°C, Slowly add the **VEEGUM**<sup>®</sup> **R** to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining Part A ingredients and mix until uniform. Maintain the water phase at 75-80°C. Blend the Part B oil phase ingredients and heat to 75-80°C, keeping the benzocaine suspended. Add Part B to Part A with good agitation. Cool with mixing; add the preservative when the emulsion is <40°C.

# RAW MATERIAL SUPPLIERS

<sup>1</sup>Dow Corning Corporation, Midland, MI <sup>2</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH <sup>3</sup>Uniqema, New Castle, DE <sup>4</sup>Croda, Inc., Edison, NJ

### TRADEMARKS

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Rev01/30/2013

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# Instant Sulfur Acne Treatment Mask No. 590

	Wt.%
VEEGUM <sup>®</sup> HS Magnesium Aluminum Silicate	5
Kaolin USP	60
Sodium Bicarbonate	25
Avena Sativa (Oat) Kernel Flour (Tech-O <sup>®</sup> #11-070 Oat Flour <sup>1</sup> )	5
Precipitated Sulfur USP	5

Procedure: Dry blend all ingredients.

**Use:** By volume, mix about 1 part water or witch hazel into 4.5 parts mask powder and mix to form a smooth paste.

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

# TRADEMARKS

**VEEGUM** is a registered trademarks of Vanderbilt Minerals, LLC. Tech-O is a registered trademark of Beacon CMP Corporation.

Rev01/21/2013

Wt %

q.s.



# **Botanical Skin Lightening Lotion No. 492**

	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	2.0
Α	Carbomer (Carbopol <sup>®</sup> 934 <sup>1</sup> )	0.2
	Water	69.8
		00.0
	Polysorbate 20 (Tween <sup>®</sup> 20 <sup>2</sup> )	0.6
в	Glycerin	3.0
-	Butylene Glycol	3.0
		0.0
	Cetyl Alcohol	0.5
	Isosorbide Laurate	1.0
	Laureth-23 (Brii <sup>®</sup> L23 <sup>2</sup> )	0.7
	Steareth-2 (Brij <sup>®</sup> S2 <sup>2</sup> )	1.1
C	Steareth-21 (Brii <sup>®</sup> S721 <sup>2</sup> )	1 1
Ŭ	Caprulic/Capric Triglycoride (Neebee® M-53)	5.0
	Chaptylic/Capito Thiglycende (Neobee 18-5)	2.0
	Giyceryl Monostearate SE	3.0
	C12-15 Octanoate (Finester™ EH-25 <sup>+</sup> )	3.0
	Dimethicone (XIAMETER <sup>®</sup> PMX-200 Silicone Fluid 350cs <sup>5</sup> )	1.0
	Triethanolamine (to pH 6.0 $\pm$ 0.5)	30
	$\frac{1}{2} = \frac{1}{2} = \frac{1}$	0.0
D	Saxifraga Sarmentosa Extract (and) Grape Extract (and) Butylene Glycol (and)	2.0
	Water (and) Mulberry Root Extract (and) Scultellaria Baicalensis Extract (and) Na2	
	EDTA (Biowhite <sup>®6</sup> )	

**E** | Preservative, Fragrance, Chelating Agent

**Procedure**: Begin heating the water to 75-80°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 water phase ingredients from Part B, mixing until uniform. Maintain the water phase at 75-80°C. Blend the Part C oil phase ingredients and heat to 75-80°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool while mixing; when the emulsion is <45°C add the Part D and Part E ingredients in the order listed, mixing after each addition until smooth and uniform. Adjust as necessary to pH 6.0±0.5.

### **RAW MATERIAL SUPPLIERS**

<sup>1</sup>Lubrizol Advanced Materials Inc., Cleveland, OH <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>Dow Corning Corporation, Midland, MI <sup>6</sup>BASF Corporation, Florham Park, NJ

### TRADEMARKS

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Rev04/25/2013

VA/+ 0/

# 5% Benzoyl Peroxide Acne Treatment Lotion No. 356

		WWL. /0
Α	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate VANZAN <sup>®</sup> NF Xanthan Gum	0.90 0.40
	Water	75.55
В	Propylene Glycol Benzovl Peroxide, 70% Powder	6.00 7 15
		7.10
С	Laureth-4 (Brij <sup>®</sup> L4 <sup>1</sup> )	5.00
C	Acetylated Lanolin Alcohol (Acetulan <sup>®2</sup> )	5.00
D	Preservative	q.s.

**Procedure:** 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. Mill Part B to a smooth paste. Blend Part B with Part C. Add this blend to Part A and mix until uniform.

RAW MATERIAL SUPPLIERSTRADEMARKS<sup>1</sup>Uniqema, New Castle, DEVANZAN and VEEGUM are registered trademarks of Vanderbilt Minerals, LLC.<sup>2</sup>Lubrizol Advanced Materials, Inc., Cleveland, OHBrij is a registered trademark of Uniqema Americas LLC.<br/>Acetulan is a registered trademark of The Lubrizol Corporation.

Rev01/30/2013

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# Intensive AHA Moisturizing Cream No. 484

Α	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate VANZAN <sup>®</sup> NF Xanthan Gum Water	1.5 0.3 56.6
В	Glycerin Butylene Glycol	3.4 2.0
С	Cetyl Alcohol Glyceryl Monostearate SE Petrolatum Mineral Oil Caprylic/Capric Triglyceride (Neobee <sup>®</sup> M-5 <sup>1</sup> ) C12-15 Octanoate (Finester <sup>™</sup> EH-25 <sup>2</sup> ) Dimethicone (XIAMETER <sup>®</sup> PMX-200 Silicone Fluid 350cs <sup>3</sup> ) Steareth-2 (Brij <sup>®</sup> S2 <sup>4</sup> ) Steareth-21 (Brij <sup>®</sup> S721 <sup>4</sup> ) Isosorbide Laurate	0.5 3.0 10.0 2.0 3.0 2.0 1.0 1.5 1.5 0.5
D	Lactic Acid USP, 88% Sodium Lactate (PATLAC <sup>™</sup> NAL <sup>5</sup> ) Glycolic Acid, 70% Triethanolamine (to pH 3.75 ± 0.25)	2.6 2.6 3.0 3.0
Е	Preservative, Fragrance	q.s.

**Procedure:** While heating the water to 80°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 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 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 <40°C. Adjust as necessary to pH 3.75 ± 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 <sup>4</sup>Croda Inc., Edison, NJ <sup>5</sup>RITA Corporation, Crystal Lake, IL

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Rev04/25/2013

Wt.%



# Antifungal Cream No. 355

]	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate	0.75
	Water	48.75
^	Water	75.40
A	Sorbitol, 70% Solution	10.00
	Polysorbate 80 (Tween <sup>®</sup> 80 <sup>1</sup> )	1.00
	Zinc Undecylenate	20.00
	Caprylic Acid	5.00
	C12-15 Alkyl Benzoate (Finsolv <sup>®</sup> TN <sup>2</sup> )	3.00
В	Polysorbate 80 (Tween <sup>®</sup> 80 <sup>1</sup> )	1.50
	C18-C36 Acid (Syncrowax™ AW1-C³)	2.00
	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165 <sup>1</sup> )	8.00

# **C** Preservative

q.s.

**Procedure:** While heating the water to 70-75°C, slowly add the **VEEGUM® R** to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining Part A ingredients and mix until uniform. Maintain the water phase at 70-75°C. Blend the Part B oil phase ingredients and heat to 70-75°C. Add Part B to Part A with good agitation. Cool with mixing; add the preservative when the emulsion is <40°C.

### RAW MATERIAL SUPPLIERS <sup>1</sup>Uniqema, New Castle, DE <sup>2</sup>Innospec Active Chemicals, Edison, NJ <sup>3</sup>Croda, Inc., Edison, NJ

### TRADEMARKS

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Rev01/30/2013

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VA/+ 0/



# Mosquito Repellant Cream No. 457

		VVL./0
	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	0.4
Α	Carbomer (Carbopol <sup>®</sup> 940 <sup>1</sup> )	0.4
	Water	79.2
_	N.N-Diethyl-m-Toluamide	15.0
в	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel® 165 <sup>2</sup> )	5.0
С	Sodium Hydroxide Solution to pH 5.5	a.s.
-		-1
D	Preservative	q.s.

**Procedure**: Begin heating the water to 50-55°C. Slowly add the **VEEGUM**<sup>®</sup> *Ultra* and carbomer sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Maintain Part A at 50-55°C. Heat Part B to 50-55°C. Add Part A to Part B with good agitation. Cool with mixing; add the sodium hydroxide and preservative when the emulsion is <35°C.

### **RAW MATERIAL SUPPLIERS** <sup>1</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH <sup>2</sup>Croda, Inc., Edison, NJ

# TRADEMARKS

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Rev04/25/2013

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# Calamine Lotion No. 361

		WVL./0
Α	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate VANZAN <sup>®</sup> NF Xanthan Gum	0.8 0.2
	water	79.6
в	Propylene Glycol Polysorbate 80	3.0 0.4
		-
<b>^</b>	Calamine (Prepared), USP	8.0
C	Zinc Oxide, USP	8.0
D	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 Part B and mix slowly until uniform. Add Part C slowly and mix until uniform. Add Part D slowly and mix until uniform.

TRADEMARKS

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Rev01/30/2013

VA/+ 0/



# Zinc Pyrithione Lotion Shampoo No. 364

		VVL./0
	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate	0.5
Α	Water	51.1
	Hydroxypropyl Guar (Jaguar HP-60 <sup>1</sup> )	0.5
	Ammonium Lauryl Sulfate (Rhodapon™ L-22¹)	40.0
В	PPG-5-Ceteth-10 Phosphate (Crodafos <sup>™</sup> SG <sup>2</sup> )	1.8
	Lauramide DEA (Monamid <sup>®</sup> 716 <sup>2</sup> )	4.0
<u> </u>	Zinc Pyrithione, 48% (Zinc Omadine <sup>®3</sup> )	2.1
C	Preservative	q.s.

**Procedure:** Slowly add the **VEEGUM**<sup>®</sup> **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

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Rev07/01/2013

Wt.%

# **External Analgesic Cream No. 369**

	VEEGUM <sup>®</sup> R Magnesium Aluminum Silicate	1.5
Α	Water	54.7
	FG-10 Antifoam <sup>1</sup>	0.2
	Propylene Glycol	3.0
	Methyl Salicylate	15.0
_		5.0
В	Polysorbate 80 (Tween <sup>®</sup> 80 <sup>2</sup> )	0.6
	C18-C36 Acid (Syncrowax™ AW1-C³)	5.0
	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165 <sup>2</sup> )	15.0

**C** | Preservative

q.s.

**Procedure:** While heating the water to 75-80°C, slowly add the **VEEGUM R** to the water agitated at maximum available shear. Mix until fully hydrated. Add the remaining Part A ingredients and mix until uniform. Maintain the water phase at 75-80°C. Blend the Part B oil phase ingredients and heat to 75-80°C. Add Part B to Part A with good agitation. Cool with mixing; add the preservative when the emulsion is <40°C.

# RAW MATERIAL SUPPLIERS

<sup>1</sup>Dow Corning Corporation, Midland, Mi <sup>2</sup>Uniqema, New Castle, DE <sup>3</sup>Croda, Inc., Edison, NJ

# TRADEMARKS

I I	VEEGUM is a registered trademark of Vanderbilt Minerals, LLC.
•	Arlacel and Tween are registered trademarks of Uniqema Americas LLC.
	Syncrowax is a trademark of Croda, Inc.
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Rev01/30/2013

# AHA Clay Mask No. 487

	-	Wt.%
^	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	5.0
A	Water	38.9
	Glycerin	5.0
	Butylene Glycol	3.0
	Kaolin Clay, Cosmetic Grade	30.0
	Talc, Cosmetic Grade	5.0
	Sodium Lauroyl Sarcosinate, 30%	5.0
В	Glycolic Acid, 70%	5.0
	d-Panthenol	0.5
	Vitamin E Acetate	0.1
	Vitamin A Palmitate	0.1
	Triethanolamine	2.4
	Preservative	q.s.

**Procedure:** Slowly add the **VEEGUM**<sup>®</sup> *Ultra* to the water agitated at maximum available shear. Mix until fully hydrated. Add the Part B ingredients in order, mixing after each addition until smooth.

TRADEMARKS

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

Rev06/03/2016

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# Extra-Strength Roll-On Antiperspirant No. 443

A	VEEGUM <sup>®</sup> HV Magnesium Aluminum Silicate Water	1.0 29.0
В	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel® 1651)	8.0
С	Aluminum Zirconium Tetrachlorohydrex GLY, 30% Solution Aluminum Chloride, 32° Baume Solution Aluminum Chlorhydrate, 50% Solution	33.0 5.5 16.5
D	Cyclomethicone (Dow Corning <sup>®</sup> ST-Cyclomethicone-5 NF <sup>2</sup> )	7.0
Е	Preservative	q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VEEGUM**<sup>®</sup> **HV** to the water agitated at maximum available shear. Mix until fully hydrated. Heat Part B to 75°C. Heat Part C to 50-55°C. Add Part B to Part A with good agitation. Cool with mixing to 50°C and add Part C. Cool with mixing to 25°C and add Part D with good agitation. Add Part E and mix until uniform.

RAW MATERIAL SUPPLIERS <sup>1</sup>Uniqema, New Castle, DE <sup>2</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. Dow Corning is a registered trademark of Dow Corning Corporation.

Rev01/30/2013

# Soft-Gel Toothpaste No. 562

		Wt.%
	VEEGUM <sup>®</sup> D Magnesium Aluminum Silicate	1.00
•	Water	39.71
A	Tetrasodium Pyrophosphate (Food Grade)	1.00
	VANZAN <sup>®</sup> NF Xanthan Gum	0.50
	Methyl Paraben NF	0.20
	Propyl Paraben NF	0.05
R	Sorbitol, 70%	10.00
D	Glycerin, 99.7% USP	10.00
	Hydrated Silica (Zeodent <sup>®</sup> 113 <sup>1</sup> )	30.00
	Saccharin	0.20
~	Water	5.60
C	Sodium Fluoride	0.24
<b>D</b>	Sodium Lauryl Sulfate, 29% (Rhodapon™ LSB²)	1.50
U	FD & C Blue 1	q.s.

**Procedure:** Sift the **VEEGUM**<sup>®</sup> **D** into an established vortex in the water and mix until dispersed. Add the TSPP and mix until dissolved. Sift in the **VANZAN**<sup>®</sup> **NF** and mix at maximum available shear until the **VEEGUM**<sup>®</sup> **D** is fully hydrated and the **VANZAN**<sup>®</sup> **NF** is dissolved. Add the Part B ingredients in the order shown, mixing thoroughly after each addition. In Part C, dissolve the sodium fluoride in the water and then add to the batch. Add the sodium lauryl sulfate with very slow mixing to avoid air entrapment. Add the colorant and mix thoroughly.

 RAW MATERIAL SUPPLIERS
 TRADEMARKS

 <sup>1</sup>J.M Huber Corporation, Havre de Grace, MD
 VEEGUM and VANZAN are registered trademarks of Vanderbilt Minerals, LLC.

 <sup>2</sup>Rhodia, Inc., Cranbury, NJ
 Zeodent is a registered trademark of J.M. Huber Corporation.

 Rhodapon is a trademark of Rhodia, Inc.

Rev01/30/2013

Wt.%



# Stay Dry W/O Antiperspirant Stick No. 341

	VEEGUM <sup>®</sup> HV Magnesium Aluminum Silicate	1.0
Α	Water	20.0
	Aluminum Chlorhydrate, impalpable	18.0
	Cyclomethicone (Dow Corning <sup>®</sup> ST-Cyclomethicone-5 NF <sup>1</sup> )	26.0 5 0
R	Steary Alcohol	24.0
		24.0
	Sorbitan Trioleate (Span <sup>®</sup> 85 <sup>2</sup> )	5.0
	Polysorbate 85 (Tween <sup>®</sup> 85 <sup>2</sup> )	1.0
С	Preservative	q.s.

**Procedure:** While heating the water to 65-70°C, slowly add the **VEEGUM HV** to the water agitated at maximum available shear. Mix until fully hydrated. Add the aluminum chlorhydrate and mix until uniform, maintaining to 65-70°C. Heat Part B to 65-70°C. Add Part A to Part B with good agitation. Cool with mixing to 50-55°C. Add Part C and pour into molds to cool.

# RAW MATERIAL SUPPLIERS TRADEMARKS <sup>1</sup>Dow Corning Corporation, Midland, MI VEEGUM is a registered trademark of Vanderbilt Minerals, LLC. <sup>2</sup>Uniqema, New Castle, DE Dow Corning is a registered trademark of Dow Corning Corporation. Span and Tween are registered trademarks of Uniqema Americas LLC.

Rev01/30/2013

14/4 0/

# **Roll-on Antiperspirant No. 629**

Α	VEEGUM <sup>®</sup> HS Magnesium Aluminum Silicate Water	3.0 36.5
В	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel <sup>®</sup> 165-PW-(AP) <sup>1</sup> )	8.0
С	Aluminum/Zirconium Tetrachlorohydrex-GLY, USP 35% solution (Achieve® L 5435 <sup>2</sup> )	52.5
D	Preservative	q.s.

**Procedure:** While heating the water to 75°C, slowly add the **VEEGUM® HS** while mixing at maximum available shear. Mix until fully hydrated. Heat Part B to 75°C. Add Part B to Part A with good agitation on the homogenizer. Cool with mixing to 50°C. Heat Part C to 50-55°C and then add Part C to the emulsion. Avoid air entrapment. Continue to cool with mixing to ~30°C and add Part D with good agitation.

**RAW MATERIAL SUPPLIERS** <sup>1</sup>Croda, Inc., Edison, New Jersey <sup>2</sup>Gulbrandsen Technologies, Clinton, New Jersey

### TRADEMARKS

**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC. Achieve is a registered trademark of Gulbrandsen Technologies, Inc. Arlacel is a registered trademark of Uniqema Americas LLC.

Rev06/14/2016

Wt %

# Sulfur and Salicylic Acid Acne Treatment Wash No. 583

A	VEEGUM <sup>®</sup> HS Magnesium Aluminum Silicate VANZAN <sup>®</sup> NF Xanthan Gum Water	2.0 0.50 76.75
в	Sucrose Stearate (Surfhope <sup>®</sup> SE Cosme C-1811 <sup>1</sup> ) Cetyl Alcohol	1.25 1.0
с	Glycerin Sulfur (Yellow Jacket <sup>®</sup> Wettable Sulfur II <sup>2</sup> ) Sodium Laureth Sulfate Salicylic Acid, USP	4.0 2.0 10.0 2.0
D	Preservative Sodium Hydroxide, 50%	q.s. q.s.

**Procedure:** While heating the water to 65°C, slowly add the **VEEGUM**<sup>®</sup> **HS** and **VANZAN**<sup>®</sup> **NF** sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Maintaining temperature at 65°C, add Part B ingredients in order, mixing after each addition until uniform. Cool with stirring to ambient temperature. Slowly add the part C and Part D ingredients in the order listed, mixing after each addition until uniform. Avoid the incorporation of air. Adjust to approximately pH 4.5 with sodium hydroxide solution.

# RAW MATERIAL SUPPLIERS

<sup>1</sup>Arch Personal Care Products L.P., South Plainfield, NJ <sup>2</sup>Georgia Gulf Sulfur Corp., Valdosta, GA

# TRADEMARKS

**VEEGUM** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC. Surfhope is a registered trademark of Mitsubishi Chemical Corporation. Yellow Jacket is a registered trademark of Georgia Gulf Sulfur Corporation.

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# Washing Cream for Sensitive Skin No. 505

Α	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate Water	2.0 63.0
в	Sodium Cocoyl Isethionate (Pureact™ I-78¹) Cocamidopropyl Hydroxysultaine (Mirataine <sup>®</sup> CBS²)	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

Wt %

# **Bisabolol Cleansing Gel No. 557**

	VANZAN <sup>®</sup> NF-C Xanthan Gum	1.00
Α	Water	80.74
	Disodium EDTA	0.05
	Bisabolol (Alpha-Bisabolol Natural <sup>1</sup> )	0.20
В	Ethanol, 96%	15.00
	Panthenol (and) Propylene Glycol (D-Panthenol 50P <sup>1</sup> )	1.00
	PEG-40 Hydrogenated Castor Oil (Cremophor® CO 401)	2.00
С	Preservative	q.s.

**Procedure:** Slowly add the **VANZAN<sup>®</sup> 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  $6.5 \pm 0.5$ .

**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

# Washing Gel with Tea Tree Oil No. 556

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

**Procedure:** Slowly add the **VANZAN<sup>®</sup> 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  $\pm$  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

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

Rev07/01/2013

# Extra Mild Facial Cleanser No. 553

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

**Procedure:** Sift the **VANZAN<sup>®</sup> 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.
Amphosol is a registered trademark of Stepan Company.
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

# Natural Exfoliant Scrub No. 576

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

### TRADEMARKS

**VANATURAL** and **VANZAN** are registered trademarks of Vanderbilt Minerals, LLC. Amphosol and Ninol are registered trademarks of Stepan Company. Plantaren is a registered trademark of Cognis GmbH.

Rev07/01/2013

# 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

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# Exfoliating Facial Scrub Containing Tea Tree Oil No. 555

	<b>VVL.</b> /O
Water	71.13
VANZAN <sup>®</sup> NF-C Xanthan Gum	1.10
Disodium EDTA	0.05
Cocamidopropyl Betaine (Amphosol <sup>®</sup> CA <sup>1</sup> )	10.00
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
Nelaleuca Alternifolia Leaf Powder (Melafresh® Exfol 1003)	1.00
Preservative	q.s.
Triethanolamine	0.12
	Water         VANZAN® NF-C Xanthan Gum         Disodium EDTA         Cocamidopropyl Betaine (Amphosol® CA <sup>1</sup> )         Decyl Glucoside (Plantaren® 2000N <sup>2</sup> )         Water (and) Melaleuca Oil (and) Ethoxylated Castor Oil (and) Polysorbate 20         (Water-Soluble Tea Tree Oil <sup>3</sup> )         Melaleuca Alternifolia Leaf Powder (Melafresh® Exfol 100 <sup>3</sup> )         Preservative         Triethanolamine

**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 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.

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# Aloe & Oat Instant Mask No. 591

	VVT.%
VEEGUM <sup>®</sup> HS Magnesium Aluminum Silicate	5.00
Kaolin USP	88.95
Aloe Barbadensis Leaf Juice (and) Maltodextrin (Terra-Spray <sup>™</sup> Spray Dried Aloe Vera	1.00
Powder 100X <sup>1</sup> )	
Avena Sativa (Oat) Kernel Flour (Tech-O <sup>®</sup> #11-070 Oat Flour <sup>2</sup> )	5.00
Cyclohexanecarboxamide, N-ethyl-5-methyl-2-(1-methylethyl)- (ICE 3000 Cooling	0.05
Sensate (WS-3) <sup>3</sup> )	

Procedure: Dry blend all ingredients.

**Use:** By volume, mix about 1 part water, witch hazel or cider vinegar into 4 parts of mask powder and mix to form a smooth paste.

RAW MATERIAL SUPPLIERS <sup>1</sup>Terry Laboratories, Melbourne, FL <sup>2</sup>Beacon CMP Corporation, Kenilworth, NJ <sup>3</sup>Qaroma, Baytown, TX

### TRADEMARKS

**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC. Terra-Spray is a trademark of Terry Laboratories. Tech-O is a registered trademark of Beacon CMP Corporation.

Rev01/21/2013

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® AV1)	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

W/t %



# Moisturizing Lotion with Sunscreen No. 567

	VEEGUM <sup>®</sup> Ultra Magnesium Aluminum Silicate	1.0
	Water	77.3
Α	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 <sup>®</sup> 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

**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC. Emulgade is a registered trademark of Cognis GmbH Corporation. Kessco is a trademark of Stepan Company. Neobee is a registered trademark of Stepan Company. Neo Heliopan is a registered trademark of Haarmann & Reimer GmbH.

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# 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
Р	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	a.s.

**Procedure:** While heating the water to 85-90°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 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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# **Organic Skin Lotion No. 594**

Α	VANATURAL <sup>®</sup> Bentonite Clay VANZAN <sup>®</sup> NF Xanthan Gum Water	2.5 0.5 56.0
в	Aloe Vera Gel, from Aloe Vera Whole Leaf Powder Organic Spray Dried 100X <sup>1</sup> (1% powder/99% water)	20.0
	Cetearyl Wheat Straw Glycosides (and) Cetearyl Alcohol (Xyliance <sup>™2</sup> ) Butyrospermum Parkii (Shea) Butter (Shea Butter-Ultra Refined <sup>™</sup> Certified Organic <sup>3</sup> )	5.0 3.5
С	Theobroma Cacao (Cocoa) Seed Butter (Cocoa Butter-Ultra Natural <sup>™</sup> Certified	3.5
	Persea Gratissima (Avocado) Oil (Avocado Oil Certified Organic <sup>3</sup> ) Simmondsia Chinensis (Jojoba) Seed Oil (Jojoba Oil-Natural Golden-Certified Organic <sup>3</sup> )	6.0 3.0
D	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 SUPPLIERSTRADEMARKS<sup>1</sup>Terry Laboratories, Inc., Melbourne, FLVANATURAL and VANZAN are registered trademarks of Vanderbilt Minerals, LLC.<sup>2</sup>Actives International, Allendale, NJUltra Natural and Ultra Refined are trademarks of BioChemica International, Inc.<sup>3</sup>BioChemica Int'l, Inc., Melbourne, FLXyliance is a trademark of Soliance.

Rev01/30/2013

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

		VVL./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

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# **Cracked Skin Lotion No. 586**

	VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay	2.50
	Water	73.25
Α	Avena Sativa (Oat) Kernel Flour (Tech-O <sup>®</sup> #11-070 Oat Flour <sup>1</sup> )	1.00
	VANZAN <sup>®</sup> NF Xanthan Gum	0.50
	Sucrose Stearate (Sisterna <sup>®</sup> SP50-C <sup>2</sup> )	1.75
	Sodium $PCA$ (Aiidow <sup>®</sup> NL 50 <sup>3</sup> )	2.00
В	Chaptin (Ajiuew INL-50°)	5.00
		5.00
	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
С	Mineral Oil (and) Lanolin Alcohol (Vilvanólin™ L-1016)	3.00
	Cetvl Alcohol (Crodacol™ C95-PÀ-MH⁴)	2.00
	Isopropyl Myristate NF (RITA IPM <sup>7</sup> )	2.00
		2100
П	Preservative	q.s.
U	Citric Acid, 20%	q.s.

**Procedure:** While heating the water to  $50-55^{\circ}$ 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  $50-55^{\circ}$ C. Blend the Part C oil phase ingredients and heat to  $50-55^{\circ}$ 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  $<35^{\circ}$ C. Adjust pH to  $5.5 \pm 0.5$  with citric acid.

### **RAW MATERIAL SUPPLIERS**

### TRADEMARKS

<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)	<b>VANATURAL</b> and <b>VANZAN</b> are registered trademarks of Vanderbilt Minerals, LLC. Aijdew is a registered trademark of Ajinomoto Company, Inc. Arlacel is a registered trademark of Uniqema Americas LLC.
<sup>3</sup> Ajinimoto USA, Inc., Fort Lee, NJ	Crodacol is a trademark of Croda, Inc.
<sup>4</sup> Croda, Inc., Edison, NJ	Parleam is a registered trademark of Rossow.
<sup>o</sup> Rossow USA, Inc., Matawan, NJ	Sisterna is a registered trademark of Sisterna B.V.
<sup>o</sup> Lubrizol Advanced Materials, Inc., Cleveland, OH	Tech-O is a registered trademark of Beacon CMP Corporation.
'RITA Corporation, Crystal Lake, IL	Vilvanolin is a trademark of Lubrizol Advanced Materials, Inc.

rev01/18/2018

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# Oatmeal & Macadamia Cream No. 588

		VVL./0
Α	VANATURAL <sup>®</sup> Bentonite Clay	2.50
	Water	82.25
	Avena Sativa (Oat) Kernel Flour	1.00
	(Tech-O <sup>®</sup> #11-070 Oat Flour <sup>1</sup> )	
	VANZAN <sup>®</sup> NF Xanthan Gum	0.50
	Sucrose Stearate (Surfhope <sup>®</sup> SE Cosme C-1811 <sup>2</sup> )	1.25
в	Butylene Glycol	5.00
I	Macadamia Ternifolia Seed Oil (SCB Macadamia Oil 3)	1 50
С	Ceteary Alcohol	3.00
		0.00
D	Preservative	q.s.

**Procedure:** While heating the water to 60-65°C, slowly add the **VANATURAL**<sup>®</sup> while mixing at maximum available shear. Once dispersed, slowly sift in the oat flour. Mix until the **VANATURAL** 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 the butylene glycol and mix thoroughly. Maintain the water phase at 60-65°C. Blend the Part C oil phase ingredients 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; add Part D when the emulsion is <30°C.

### **RAW MATERIAL SUPPLIERS**

<sup>1</sup>Beacon CMP Corporation, Kenilworth, NJ <sup>2</sup>Arch Personal Care Products L.P., South Plainfield, NJ <sup>3</sup>Southern Cross Botanicals PTY Ltd., Lennox Head, NSW Australia

# TRADEMARKS

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Rev12/15/2014

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# Skin Softening Cream No. 575

	VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay	2.0
Α	Water	72.2
	Butylene Glycol	5.0
в	Glyceryl Stearate SE (Cutina <sup>®</sup> GMS SE <sup>1</sup> )	9.0
	Cetyl Alcohol (Crodacol™ 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® 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
С	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 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

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# **Rejuvenating Lotion No. 574**

		WWL./O
A	VANATURAL <sup>®</sup> or VANATURAL MC Bentonite Clay	2.0
	VANZAN <sup>®</sup> NF Xanthan Gum	0.5
	Water	72.5
	Butylene Glycol	3.0
в	Our less attributes (and) Directly is an a (and) Detrate (or letters (Oel Detra DOM DT))	7.0
	Cyclomethicone (and) Dimethicone (and) Petrolatum (Gel Base BSM-PT)	7.0
	C12-15 Alkyl Benzoate (Finsolv <sup>®</sup> TN <sup>2</sup> )	4.0
	Cetearyl Alcohol	1.0
	Glyceryl Stearate (and) PEG-100 Stearate (Arlacel® 1653)	5.0
с	Water (and) Alex Berbadancia Loof Extract (and) Vacat (Sacabromyzaca)	
	Extract (Betavera <sup>®1</sup> )	5.0
	Preservative	a.s.
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**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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Rev04/17/2017















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