



■ - BASF

We create chemistry

Care
Creations™

Z-COTE® UV Filters Trusted Technology for Everyday Protection

www.carecreations.basf.us



Naturally derived
& USA sourced
Zinc Oxides

Sunscreen use has evolved into a daily necessity

BASF Care Creations' Z-COTE® UV filters deliver best-in-class broad-spectrum sun protection to meet today's demands for safety and efficacy.

For sunscreens to effectively prevent long-term skin damage, consumers must feel comfortable wearing them anytime, anywhere. Our naturally derived Zinc Oxide filters are safe to use and backed by science that consumers can trust for everyday protection and performance. The Z-COTE® product line is USA sourced and comes in versatile ingredient forms allowing you to offer consumers the security they need in the ideal application, whether it's for beach, athletic, baby or daily wear.

Achieve complete broad-spectrum sun protection with a single UV filter



Z-COTE® UV filters earn outstanding industry performance ratings across the board. Their exceptional UV absorbance provides maximum protection against sunburn, skin cancer and premature aging. Superior photostability lets you create lighter-feeling products that consumers will be happy to apply.

Z-COTE® UV filters give you 40 years of collective expertise. We provide technical insights and optimal ingredient combinations so you can meet your efficacy and aesthetic targets. BASF's broad portfolio of functional and performance-based ingredients work together to make formulating easier.

From fast-blending sunscreen sticks to elegant, SPF-infused lotions, trust Z-COTE® for proven protection that people will want to wear every day.

Z-COTE® UV Filters

Trusted Technology for
Everyday Protection

Rise & Shine Daily SPF Lotion	4
Simply Zinc Sunscreen Stick	6
Simply Zinc (Kids) Sunscreen Stick	8
Kissed by SPF Lip Balm	10
All Day Long SPF Lip Balm	12

Rise & Shine Daily SPF Lotion

featuring Z-COTE®
HP1 X

Start your day off right with lightweight, broad-spectrum UV protection. Our low-whitening, Z-COTE® HP1 X Zinc Oxide works together with naturally derived Cetiol® C 5 and Cetiol® LC emollients to create an ultra-blendable, elegant formula, making it the perfect addition to daily routines.



Ingredients	INCI	% by Weight	Function
Phase A			
Dehymuls® PGPH	Polyglyceryl-2 Dipolyhydroxystearate	4.00	Emulsifier (W/O)
Lameform® TGI	Polyglyceryl-3 Diisostearate	2.50	Emulsifier (W/O)
Cetiol® LC	Coco-Caprylate/Caprate	10.50	Emollient
Cetiol® C 5	Coco-Caprylate	12.50	Emollient
Phase B			
Z-COTE® HP1 X	Zinc Oxide (and) Triethoxycaprylylsilane	20.00	Broad Spectrum UV Filter
Phase C			
Water	Water	45.50	
Glycerin	Glycerin	3.00	Humectant
Sodium Chloride	Sodium Chloride	0.50	Stabilizer
Magnesium Sulfate	Magnesium Sulfate	0.40	Stabilizer
Preservative		1.10	Preservative
Total		100.00	

Procedure

1. Combine Phase A, heat to 75°C while mixing.
2. Add Phase B to Phase A while at 75°C. Mix well to disperse and displace air pockets, then homogenize until uniform.
3. Combine Phase C and heat to 75°C.
4. Add Phase C to Phase A/B and homogenize well until uniform.
5. Transfer to propeller mixing and cool to room temperature.

Simply Zinc Sunscreen Stick featuring Z-COTE® HP1 X

The natural choice for today's busy lifestyles. This fast-blending SPF 30* sunscreen stick features Z-COTE® HP1 X to provide convenient, on-the-go broad-spectrum protection with a soft, smooth feel – and it's more than 90% natural!**

5 *In vivo SPF based on results of an almost identical formula UV-US-20-34968-145 with pre-screen study 3 subject panel. **Based on BASF calculation



Simply Zinc Sunscreen Stick

UV-US-20-34968-146

Ingredients	INCI	% by Weight	Function
Phase A			
Cetiol® LC	Coco-Caprylate/Caprate	10.00	Emollient
Myritol® 312	Caprylic/Capric Triglyceride	22.10	Emollient
Cetiol® OE	Dicaprylyl Ether	13.00	Emollient
Xiameter™ PMX-200 Silicone Fluid 100CS (Dow)	Dimethicone	2.00	Emollient
Cetiol® SB 45	Butyrospermum Parkii (Shea) Butter	3.00	Skin Feel Modifier
Peleamol® PHS-8 (Phoenix Chemicals)	Polyhydroxystearic Acid	0.30	Structurant
Lanette® 18	Stearyl Alcohol	3.00	Consistency Agent
Cutina® HR Powder	Hydrogenated Castor Oil	4.00	Structurant
Cegesoft® HF 62	Hydrogenated Vegetable Oil	2.00	Consistency Agent
White Beeswax SP-422P (Strahl & Pitsch)	Beeswax	6.75	Structurant
Ozokerite Wax White SP-273P (Strahl & Pitsch)	Ozokerite	5.75	Structurant
Candelilla Wax SP-75 (Strahl & Pitsch)	Euphorbia Cerifera (Candelilla) Wax	6.50	Structurant
Phase B			
Z-COTE® HP1 X	Zinc Oxide (and) Triethoxycaprylsilane	21.60	Broad Spectrum UV Filter
Total		100.00	

Procedure

1. Combine Phase A and heat to 95-100°C while mixing, until solids melt.
2. Heating oil to very high temperatures, work on a batch at a time, monitor temperature closely to avoid overheating.
3. Add Phase B, mix for a few minutes to displace air pockets and disperse powder, then homogenize until uniform.
4. Continue to mix and cool down slowly.
5. Hot pour into sunscreen stick component at ~67°C.
6. Do not touch or move sticks after hot pour step, let them solidify slowly overnight.

Simply Zinc (Kids) Sunscreen Stick featuring Z-COTE®

Keep little ones protected throughout the day. More than 90% natural*, this Z-COTE® SPF 30** sunscreen stick provides effective broad-spectrum UV protection with a non-greasy, non-oily feel that's kid-approved!

7

**Based on BASF calculation **In vivo SPF pre-screen study conducted with 3 subject panel*



Simply Zinc (Kids) Sunscreen Stick

UV-US-20-34968-145

Ingredients	INCI	% by Weight	Function
Phase A			
Cetiol® LC	Coco-Caprylate/Caprate	10.00	Emollient
Myritol® 312	Caprylic/Capric Triglyceride	22.10	Emollient
Cetiol® OE	Dicaprylyl Ether	15.00	Emollient
Cetiol® SB 45	Butyrospermum Parkii (Shea) Butter	3.00	Skin Feel Modifier
Pelemol® PHS-8 (Phoenix Chemicals)	Polyhydroxystearic Acid	0.30	Structurant
Lanette® 18	Stearyl Alcohol	3.00	Consistency Agent
Cutina® HR Powder	Hydrogenated Castor Oil	4.00	Structurant
Cegesoft® HF 62	Hydrogenated Vegetable Oil	2.00	Consistency Agent
White Beeswax SP-422P (Strahl & Pitsch)	Beeswax	6.75	Structurant
Ozokerite Wax White SP-273P (Strahl & Pitsch)	Ozokerite	5.75	Structurant
Candelilla Wax SP-75 (Strahl & Pitsch)	Euphorbia Cerifera (Candelilla) Wax	6.50	Structurant
Phase B			
Z-COTE®	Zinc Oxide	21.60	Broad Spectrum UV Filter
Total		100.00	

Procedure

1. Combine Phase A and heat to 95-100°C while mixing, until solids melt.
2. Heating oil to very high temperatures, work on a batch at a time, monitor temperature closely to avoid overheating.
3. Add Phase B, mix for a few minutes to displace air pockets and disperse powder, then homogenize until uniform.
4. Continue to mix and cool down slowly.
5. Hot pour into sunscreen stick component at ~67°C.
6. Do not touch or move sticks after hot pour step, let them solidify slowly overnight.

Kissed By SPF Lip Balm

featuring Z-COTE®

Pucker up! This elegant SPF lip balm combines Z-COTE®, an effective ZnO powder, with Myritol® 331 and Cosmedia® Gel CC, which provide moisturization and a light texture, to avoid a greasy and heavy feel. It's sure to be a staple in any daily routine.



Kissed By SPF Lip Balm

UV-US-20-36036-8

Ingredients	INCI	% by Weight	Function
Phase A			
Myritol® 331	Cocoglycerides	46.90	Emollient
Lameform® TGI	Polyglyceryl-3 Diisostearate	6.00	Emollient
Cetiol® CC	Dicaprylyl Carbonate	3.00	Emollient
Cosmedia® DC	Hydrogenated Dimer Dilinoleyl/Dimethylcarbonate Copolymer	1.35	Film forming agent
Cosmedia® Gel CC	Dicaprylyl Carbonate (and) Stearalkonium Hectorite (and) Propylene Carbonate	3.00	Skin feel modifier
Sensiva® SC 50 (Schülke)	Ethylhexylglycerin	0.25	Auxiliary
Vitamin E-Acetate Care	Tocopheryl Acetate	1.00	Antioxidant
MSS-500 (Kobo Products)	Silica	1.00	Skin feel modifier
Cutina® PES	Pentaerythrityl Distearate	6.00	Consistency agent
Cetiol® SB-45	Butyrospermum Parki (Shea) Butter	4.00	Emollient
Ozokerite Wax White SP-273P (Strahl & Pitsch)	Ozokerite	5.00	Structurant
Cegesoft® HF 62	Hydrogenated Vegetable Oil	6.50	Consistency agent
Candelilla Wax SP-75 (Strahl & Pitsch)	Euphorbia Cerifera (Candelilla) Wax	6.00	Structurant
Phase B			
Z-COTE®	Zinc Oxide	10.00	Broad Spectrum UV Filter
Total		100.00	

Procedure

1. Combine Phase A, mix and heat to 85-90°C, mix until solids melt.
2. Add Phase B slowly, mix to displace air pockets and disperse the Zinc Oxide (a few minutes).
3. Homogenize until uniform to better disperse the Zinc Oxide (~30 seconds depending on batch size.)
4. Transfer to propeller mixing and cool to optimal hot pour temperature, ~67°C.
5. Pour into lip balm packaging.

All Day Long SPF Lip Balm featuring Z-COTE® Simple

Here's hydration that won't quit! Consumers will want to reapply this silky, smooth SPF lip balm all day long. It contains Z-COTE® Simple, an easy-to-work-with ZnO dispersion, and emollients such as Myritol 331® and Cosmedia® DC, which provide moisture that lips desperately crave during time in the sun.



All Day Long SPF Lip Balm

UV-US-19-34968-103

Ingredients	INCI	% by Weight	Function
Phase A			
Z-COTE® Simple	Zinc Oxide (and) Caprylic/Capric Triglyceride (and) Polyhydroxystearic Acid (and) Triethoxycaprylylsilane	14.50	Broad Spectrum UV Filter
Myritol® 331	Cocoglycerides	42.90	Emollient
Lameform® TGI	Polyglyceryl-3 Diisostearate	6.00	Emollient
Cetiol® CC	Dicaprylyl Carbonate	3.00	Emollient
Cosmedia® DC	Hydrogenated Dimer Dilinoleyl/Dimethylcarbonate Copolymer	1.35	Film forming agent
Cosmedia® Gel CC	Dicaprylyl Carbonate (and) Stearalkonium Hectorite (and) Propylene Carbonate	3.00	Skin feel modifier
Sensiva® SC 50 (Schülke)	Ethylhexylglycerin	0.25	
Vitamin E-Acetate Care	Tocopheryl Acetate	1.00	Active ingredient
MSS-500 (Kobo Products)	Silica	1.00	Skin feel modifier
Cutina® PES	Pentaerythrityl Distearate	6.00	Consistency agent
Cetiol® SB-45	Butyrospermum Parki (Shea) Butter	4.00	Emollient
Ozokerite Wax White SP-273P (Strahl & Pitsch)	Ozokerite	5.00	Structurant
Cegesoft® HF 62	Hydrogenated Vegetable Oil	6.00	Consistency agent
Candelilla Wax SP-75 (Strahl & Pitsch)	Euphorbia Cerifera (Candelilla) Wax	6.00	Structurant
Total		100.00	

Procedure

1. Combine Phase A, mix and heat to 85-90°C, mix until solids melt.
2. Add Phase B slowly, mix to displace air pockets and disperse the Zinc Oxide (a few minutes).
3. Homogenize until uniform to better disperse the Zinc Oxide (~30 seconds depending on batch size.)
4. Transfer to propeller mixing and cool to optimal hot pour temperature, ~67°C.
5. Pour into lip balm packaging.



Z-COTE® UV Filters

Trusted Technology
for Everyday Protection

Z-COTE® UV filters help you set your formulations apart. Our ingredients and technical expertise help formulators meet today's sun care needs.

Explore our complete portfolio at
www.carecreations.basf.us

About the Care Chemicals division at BASF

The BASF division Care Chemicals offers a broad range of ingredients for personal care, home care, industrial & institutional cleaning, and technical applications. We are a leading global supplier for the cosmetics industry as well as the detergent and cleaner industry, and support our customers with innovative and sustainable products, solutions and concepts. The division's high-performance product portfolio includes surfactants, emulsifiers, polymers, emollients, chelating agents, cosmetic active ingredients and UV filters. We have production and development sites in all regions and are expanding our presence in emerging markets. Further information is available online at

www.care-chemicals.basf.com

North America

100 Park Avenue

Florham Park, NJ 07932

US

Phone: +1-800-962-7831

beautycare-na@basf.com

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. THERE ARE NO WARRANTIES OF ANY KIND. ALL EXPRESS AND IMPLIED WARRANTIES ARE DISCLAIMED. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. The claims and supporting data provided in this publication have not been evaluated for compliance with any jurisdiction's regulatory requirements and the results reported may not be generally true under other conditions or in other matrices. Users must evaluate what claims and information are appropriate and comply with a jurisdiction's regulatory requirements. The user of this publication agrees to (i) indemnify and hold harmless each entity of the BASF organization for any and all regulatory action arising from the user's use of any claims or information in this publication, including, but not limited to, use in advertising and finished product label claims, and (ii) not present this publication as evidence of finished product claim substantiation to any regulatory authority.

© 2021 BASF Corporation, Florham Park, NJ. All rights reserved.

