

*Koboo Products*

*formulary*

*In-Cosmetics Asia 2011*

*www.koboproducts.com*

**KOBO**



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# Lightweight O/W Sunscreen Featuring TNP50ZSI

## Formula KSL-083A

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	69.80	Deionized Water	Water	
	3.00	Butylene Glycol	Butylene Glycol	Axo Chemical
	1.00	Phenonip®	Phenoxyethanol (And) Methylparaben (And) Ethylparaben (And) Propylparaben (And) Butylparaben	Clariant
<b>2</b>	19.00	<b>TNP50ZSI</b>	C12-15 Alkyl Benzoate (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	4.50	Montanov L	C14-22 Alcohols (and) C12-20 Glucoside	SEPPIC
	1.00	Liponate® TDS	Tridecyl Stearate	Lipo Chemicals
	1.00	Fitoderm®	Squalane	Centerchem
	0.20	Vitamin E Acetate	dl-alpha Tocopherol	BASF
<b>3</b>	0.50	Sepigel™ 501	Acrylamides Copolymer (and) Mineral Oil (and) C13-14 Isoparafin (and) Polysorbate 85	SEPPIC

100

### Manufacturing Procedure

1. In main kettle, combine Part 1 ingredients and heat to 78°C - 80°C with moderate speed propeller mixing.
2. Heat Part 2 to 80°C and mix until uniform.
3. Add Part 2 to Part 1 with medium speed propeller mixing. Mix for 15 minutes or until emulsification is complete.
4. Begin cooling batch.
5. At 40°C, add Part 3 to batch and mix well.
6. Cool to 25°C.

### Description

This lightweight sunscreen is an O/W emulsion that provides SPF using Kobo's Zinc Oxide Dispersion, TNP50ZSI. TNP50ZSI also contributes to application and is transparent on the skin. Squalane and Vitamin E Acetate help to provide soothing skin properties.

### Notes

Active Ingredient(s)	
Zinc Oxide	8.84%

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March, 2004

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# Waterproof Suncare Lotion

Formula KSL-089



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	54.35	Deionized Water	Water	
	3.00	Liposorb® S-20	Polysorbate 60	Lipo Chemicals
	2.00	Liponic® EG-1	Glycereth-26	Lipo Chemicals
	0.60	Phenonip®	Phenoxyethanol (And) Methylparaben (And) Ethylparaben (And) Propylparaben (And) Butylparaben	Clariant
	0.50	Veegum® HV	Magnesium Aluminum Silicate	R.T. Vanderbilt
<b>2</b>	20.00	<b>TNP50ZSI</b>	C12-15 Alkyl Benzoate (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	7.50	Neo Heliopan® AV	Ethylhexyl Methoxycinnamate	Haarman & Reimer
	3.00	Liposorb® S	Sorbitan Stearate	Lipo Chemicals
	2.00	Ganex® V-216	VP/Hexadecane Copolymer	ISP
	1.25	Dermol 99	Isononyl Isononanoate	Alzo International Inc.
	1.00	Tegin® ISO	Glycerol Fatty Acid Ester	Evonik
	1.00	Lipowax® D	Cetearyl Alcohol (And) Cetareth-20	Lipo Chemicals
<b>3</b>	2.50	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
<b>4</b>	1.00	Deionized Water	Water	
	0.30	Germall® 115	Imidazolidinyl Urea	ISP

100

**Manufacturing Procedure**

1. Heat Part 1 to 78°C.
2. Heat Part 2 to 80°C.
3. Add Part 2 to Part 1 under homogenizer.
4. Add Part 3 to Parts 1 and 2 under homogenizer.
5. Mix for 15 minutes.
6. Switch to sweep.
7. Cool to 35°C and add Part 4.
8. Cool to 30°C.

**Description**

This waterproof sunscreen is an O/W emulsion with an SPF 30. It features Kobo's Zinc Oxide Dispersion, TNP50ZSI, which provides transparency on the skin and SPF. The long-lasting properties are from the inclusion of VP/Hexadecene Copolymer.

**Notes**

Active Ingredient(s)	
Zinc Oxide	9.30%
Ethylhexyl Methoxycinnamate	7.50%

SPF testing: in vivo on 3 subjects

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# Sprayable Sunscreen

## Formula KSL-101C

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	40.65	Deionized Water	Water	
	10.00	Keltrol CG (1% Aqueous Solution)	Xanthan Gum	CP Kelco
	4.00	Butylene Glycol	Butylene Glycol	Ruger Chemical Co., Inc.
	2.50	Ceralution® CC	Aqua (And) Caprylic/Capric Triglyceride (And) Glycerin (And) Ceteareth-25 (And) Disodium Ethylene Dicoamide PEG-15 Disulfate (And) Acacia Senegal Gum (And) Behenyl Alcohol (And) Glyceryl Stearate (And) Glyceryl Disulfate (And) Glyceryl Stearate Citrate (And) Phenoxyethanol (And) Xanthan Gum (And) Benzyl Alcohol	Sasol
	2.00	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Liposerve™ PP	Phenoxyethanol (and) Methylparaben (And) Ethylparaben (and) Propylparaben (and) Butylparaben (and) Isobutylparaben	Lipo Chemicals
	<b>2</b>	6.00	Salacos 99	Isononyl Isononanoate
2.50		Lipocol® TD-12	Trideceth-12	Lipo Chemicals
2.00		Ceralution® H	Behenyl Alcohol (and) Glyceryl Stearate (and) Glyceryl Stearate Citrate (and) Sodium Dicoolethylenediamine PEG-15 Sulfate	Sasol
1.75		DC200/200 Fluid	Dimethicone	Dow Corning
1.50		Softisan® 100	Hydrogenated Coco-Glycerides	Sasol
1.00		Lipex Shea	Butyrospermum Parkii (Shea Butter)	Jarchem Industries
0.10		Vitamin E Acetate	Tocopheryl Acetate	BASF
<b>3</b>		25.00	<b>TNP40VTTS</b>	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane

100

### Manufacturing Procedure

1. Combine Part 1 ingredients and heat to 80°C under propeller mixing.
2. Combine Part 2 ingredients and heat to 80°C. Mix until uniform.
3. Slowly add Part 2 to Part 1 and mix for 15-20 minutes.
4. At 40°C - 45°C, slowly add Part 3 and mix well.
5. Continue cooling to 25°C.

### Description

This sprayable sunscreen is an O/W emulsion that combines a vegetable base with Dimethicone and Shea Butter as skin protectants. Kobo's Titanium Dioxide Dispersion, TNP40VTTS, provides this formula with SPF and transparency on the skin.

### Notes

Active Ingredient(s)	
Titanium Dioxide	7.80%

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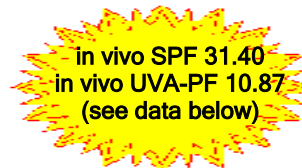
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# Sunscreen Stick with HBTN65HP1 and HBTN55TIS

Formula KSL-171A



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	29.84	Unitolate 160K	Caprylic/Capric Triglyceride	Universal Preserv-A-Chem
	13.64	HBTN55TIS	Butyloctyl Salicylate (And) Titanium Dioxide (And) Isostearic Acid (And) Aluminum Hydroxide (And) C12-15 Alkyl Benzoate	Kobo Products
	11.00	Ozokerite Wax White SP 1020P	Ozokerite	Strahl & Pitsch, Inc.
	9.00	Jeechem ISIS	Isostearyl Isostearate	Jeen International
	7.22	HBTN65HP1	Zinc Oxide (And) Butyloctyl Salicylate (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane	Kobo Products
	6.00	Lanolin Technical Grade	Lanolin	RITA Corp.
	5.50	Candelilla Wax	Euphorbia Cerifera (Candelilla) Wax	Frank B. Ross
	5.00	Castor Oil	Ricinus Communis (Castor) Seed Oil	Alzo International Inc.
	4.50	Carnauba Wax	Copernicia Cerifera (Carnauba) Wax	Frank B. Ross
	4.00	Softisan® 100	Hydrogenated Coco-Glycerides	Condea Chemie
	4.00	Beeswax White SP 422P	Beeswax	Strahl & Pitsch, Inc.
	0.30	Vitamin E Acetate	Tocopherol Acetate	BASF

100

**Manufacturing Procedure**

Add all ingredients together and heat to 70-80°C. Mix until all waxes are melted and pour into sticks at 78-80°C.

**Description**

This stick applies smoothly and is convenient to use. This sunscreen uses Kobo's Zinc Oxide Dispersion, HBTN65HP1 and Titanium Dioxide Dispersion, HBTN55TIS, for UVA/UVB protection. The Butyloctyl Salicylate is a booster to help increase the SPF value.

**Notes**

Active Ingredient(s)	
Zinc Oxide	4.60%
Titanium Dioxide	6.00%

SPF testing: in vivo on 3 subjects

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February, 2010



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# Economical O/W Sunscreen featuring TNP50T7 & TNP65FZS

Formula KSL-177-CH



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	61.90	Deionized Water	Water	
	4.00	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
<b>2</b>	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
	0.20	KELTROL® CG	Xanthan Gum	CP Kelco
<b>3</b>	15.00	<b>TNP50T7</b>	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	<b>Kobo Products</b>
	6.00	<b>TNP65FZS</b>	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
	4.20	Dermol 25B	C12-15 Alkyl Benzoate	Alzo International Inc.
	2.50	Lipopeg® 100-S	PEG-100 Stearate	Lipo Chemicals
	1.50	Lipo® GMS 450	Glyceryl Stearate	Lipo Chemicals
	0.40	Shea Butter	Shea Butter	Cognis Corp.
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
<b>4</b>	3.00	<b>MSS-500W</b>	Silica	<b>Kobo Products</b>
	1.00	Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	SEPPIC

100

**Manufacturing Procedure**

1. Combine Part 1 and heat to 70°C.
2. Combine Part 2 ingredients into a slurry and add to Part 1 while mixing.
3. Combine Part 3 and heat to 70°C.
4. Combine Parts 1 and 2 with Part 3 under homogenization.
5. Add Part 4 while cooling.

**Description**

Economical sunscreen that uses Kobo's Titanium Dioxide Dispersion, TNP50T7, and Kobo's Zinc Oxide Dispersion, TNP65FZS. The proportion of Titanium Dioxide to Zinc Oxide provides SPF 15, while still being transparent on the skin. MSS-500W spherical silica gives slip during application and reduces shine on the skin.

**Notes**

Active Ingredient(s)	
Titanium Dioxide	5.78%
Zinc Oxide	3.74%

SPF testing: in vivo on 3 subjects

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# Elegant W/O Sunscreen featuring TNP50T7 &

Formula KSL-179C-CH

**TNP65FZS**



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	28.40	Deionized Water	Water	
	0.50	Sodium Chloride	Sodium Chloride	Morton Salt
	0.50	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas
	0.20	Allantoin	Allantoin	DSM Nutritional Products
<b>2</b>	2.00	Butylene Glycol	Butylene Glycol	Ruger Chemical Co., Inc.
	0.10	KELTROL® CG	Xanthan Gum	CP Kelco
<b>3</b>	32.00	<b>TNP50T7</b>	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	<b>Kobo Products</b>
	30.00	<b>TNP65FZS</b>	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
	3.00	ABIL® EM 90	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
	2.00	<b>SF1214</b>	Cyclopentasiloxane (And) Dimethicone	<b>Momentive/Kobo Products</b>
	0.30	Tocopherol	Tocopherol	BASF
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
<b>4</b>	0.75	<b>MSS-500W</b>	Silica	<b>Kobo Products</b>
100				

**Manufacturing Procedure**

1. Combine Part 1 and heat to 70°C.
2. Add Part 2 to Part 1.
3. Combine Part 3 and heat to 70°C.
4. Combine Parts 1 and 2 to Part 3 while propeller mixing.
5. Add Part 4 while cooling.

**Description**

Elegant W/O sunscreen that uses Kobo's Titanium Dioxide Dispersion, TNP50T7, and Kobo's Zinc Oxide Dispersion, TNP65FZS. MSS-500W Spherical Silica gives slip during application and reduces shine on the skin. SF1214 is used to enhance feel during application.

**Notes**

Active Ingredient(s)	
Titanium Dioxide	12.32%
Zinc Oxide	18.72%

SPF testing: in vivo on 3 subjects

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# Control for KSL-188 Series with TNP50T7

## Formula KSL-188



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	18.00	<b>TNP50T7</b>	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	<b>Kobo Products</b>
	10.00	KF-995	Cyclopentasiloxane	Shin Etsu
	10.00	Finsolv® TN	C12-15 Alkyl Benzoate	Finetex
	3.00	<b>SILSOFT 034</b>	Caprylyl Methicone	<b>Momentive/Kobo Products</b>
	3.00	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	1.00	THIXCIN® R	Trihydroxystearin	Elementis Specialties
	1.00	Lipo® GMS-450	Glyceryl Stearate	Lipo Chemicals
	1.00	<b>ELEMENT14 PDMS 350</b>	Dimethicone	<b>Momentive/Kobo Products</b>
<b>2</b>	47.50	Deionized Water	Water	
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	1.00	Aculyn™ 44	PEG-150/Decyl Alcohol/Smdi Copolymer	Rohm & Haas
	0.50	Liposorb® L-20	Polysorbate 20	Lipo Chemicals
<b>3</b>	2.00	<b>MSS-500W</b>	Silica	<b>Kobo Products</b>
100				

### Manufacturing Procedure

- Mix and heat Part 1 to 80°C.
- Mix and heat Part 2 to 80°C.
- Under propeller mixing add Part 2 to Part 1.
- Homogenize for 5 minutes at 4500 rpm while cooling.
- Gently stir in Part 3 at end.

### Description

This sunscreen contains Kobo's Titanium Dioxide dispersion TNP50T7. Element14 PDMS 350 and Silsoft 034 are silicones that contribute to excellent slip during application and afterfeel. MSS-500W is a spherical silica that provides slip during application and helps to reduce shine on the skin.

### Notes

SPF testing: in vivo on 3 subjects

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# High SPF Sunscreen with TNP50T7-ATB

Formula KSL-188E



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	18.03	<b>TNP50T7-ATB</b>	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Argania Spinosa Kernel Oil (And) Alumina (And) Methicone (And) Tocopheryl Acetate (And) Polyhydroxystearic Acid (And) Bisabolol	<b>Kobo Products</b>
	10.00	KF-995	Cyclopentasiloxane	Shin Etsu
	9.97	Finsolv® TN	C12-15 Alkyl Benzoate	Finetex
	3.00	<b>SILSOFT 034</b>	Caprylyl Methicone	<b>Momentive/Kobo Products</b>
	3.00	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	1.00	THIXIN® R	Trihydroxystearin	Elementis Specialties
	1.00	Lipo® GMS-450	Glyceryl Stearate	Lipo Chemicals
	1.00	<b>ELEMENT14 PDMS 350</b>	Dimethicone	<b>Momentive/Kobo Products</b>
<b>2</b>	47.50	Deionized Water	Water	
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	1.00	Aculyn 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Hass
	0.50	Liposorb® L-20	Polysorbate 20	Lipo Chemicals
<b>3</b>	2.00	<b>MSS-500W</b>	Silica	<b>Kobo Products</b>

100

**Manufacturing Procedure**

- Mix and heat Part 1 to 80°C.
- Mix and heat Part 2 to 80°C.
- Under propeller mixing add Part 2 to Part 1.
- Homogenize for 5 minutes at 4500 rpm while cooling.
- Gently stir in Part 3 at end.

**Description**

This sunscreen features Kobo's New Titanium Dioxide Dispersion TNP50T7-ATB, for UVA/UVB protection. This dispersion contains antioxidants and anti-inflammatories which help to boost SPF. This sunscreen also contains Silsoft 034 and ELEMENT14 PDMS 5, which are silicones that give excellent slip during application and afterfeel. MSS-500W spherical silica gives slip during application and reduces shine on the skin.

**Notes**

SPF testing: in vivo on 3 subjects

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# High SPF O/W Sunscreen Featuring HBP50VMTS & HBTN65HP1

## Formula KSL-190



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	54.88	Deionized Water	Water	
2	4.00	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
	0.20	KELTROL® CG	Xanthan Gum	CP Kelco
	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
3	16.00	<b>HBP50VMTS</b>	Butyloctyl Salicylate (And) Titanium Dioxide (And) Alumina (And) Methicone (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	7.22	<b>HBTN65HP1</b>	Zinc Oxide (And) Butyloctyl Salicylate (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	4.20	Dermol 25B	C12-15 Alkyl Benzoate	Alzo International Inc.
	2.50	Lipo® GMS 450	Glyceryl Stearate	Lipo Chemicals
	2.50	Lipopeg® 100-S	PEG-100 Stearate	Lipo Chemicals
	0.50	ARGAN OIL	Argania Spinosa Kernel Oil	Centerchem, Inc.
	0.40	Shea Butter	Shea Butter	Cognis Corp.
	0.30	Tocopherol	Tocopherol	BASF
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	4	3.00	<b>MSS-500W</b>	Silica
1.00		Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	SEPPIC
5	3.00	<b>DAITOSOL 5000AD</b>	Acrylates Copolymer (And) Water	<b>Daito/Kobo Products</b>

100

### Manufacturing Procedure

1. Combine Part 1 and heat to 70°C.
2. Combine Part 2 ingredients into a slurry and add to Part 1 while mixing.
3. Combine Part 3 and heat to 70°C.
4. Combine Parts 1 and 2 with Part 3 under homogenization.
5. Add Parts 4 and 5 while cooling.

### Description

This sunscreen uses Kobo's Zinc Oxide Dispersion, HBTN65HP1 and Titanium Dioxide Dispersion, HBP50VMTS, for UVA/UVB protection. The Butyloctyl Salicylate is a booster to help increase the SPF value. This product also contains DAITOSOL 5000AD which is a transparent type of film former that helps to give water resistance to the formulation. MSS-500W spherical silica gives slip during application and reduces shine on the skin.

### Notes

Active Ingredient(s)	
Titanium Dioxide	6.08%
Zinc Oxide	4.51%

SPF testing: in vivo on 3 subjects

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# Elegant W/O White Sunscreen Lotion with Formula KSL-199A Composite ACT-50



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	62.74	Deionized Water	Water	
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	1.00	MgSO4 7H2O	Magnesium Sulphate Heptahydrate	Du Pont Chemicals
	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
	0.06	Propyl Paraben NF	Propylparaben	International Sourcing
<b>2</b>	12.00	<b>COMPOSITE ACT-50</b>	Titanium Dioxide (And) Acrylates Copolymer (And) Hydrated Silica (And) Algin (And) Aluminum Hydroxide	<b>Kobo Products</b>
	10.00	Panalene® L-14E	Hydrogenated Polyisobutene	Lipo Chemicals, Inc.
	5.00	Plurol Diisostearate	Triglycerol Diisostearate	Gattefosse
	3.00	Fitoderm®	Squalane	Centerchem, Inc.
<b>3</b>	4.00	<b>SF1202</b>	Cyclopentasiloxane	<b>Momentive/Kobo Products</b>
	1.00	Jeesilc PS-VHBF	Isododecane (And) Bis Vinyl Dimethicone/Dimethicone Copolymer	Jeen International

100

**Manufacturing Procedure**

1. Combine Part 1 ingredients and heat to 70°C.
2. Add Part 2 to Part 1.
3. Combine Part 3 ingredients and heat to 70°C.
4. Add Part 3 to Parts 1 and 2 while cooling.

**Description**

This elegant W/O Sunscreen features Kobo's new Composite ACT-50. This material is a transparent, non-nano, entrapped Titanium Dioxide. It gives improved hydrophobicity to the formula, and along with SF1202, enhanced skin feel during application.

**Notes**

Active Ingredient(s)  
Titanium Dioxide 6.41%

SPF testing: in vivo on 3 subjects

**Kobo Products, Inc.**

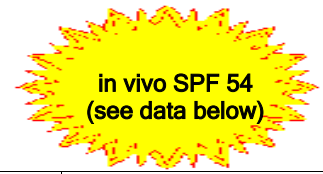
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# High SPF Sunscreen with SunBoost-ATB

Formula KSL-201



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	45.90	Deionized Water	Water	
	1.00	Liposorb® L-20	Polysorbate 20	Lipo Chemicals
<b>2</b>	1.50	Propylene Glycol	Propylene Glycol	Symrise
	0.30	KELTROL® CG	Xanthan Gum	CP Kelco
<b>3</b>	15.00	Neo Heliopan® HMS	Homosalate	Symrise
	10.00	Neo Heliopan® OS	Ethylhexyl Salicylate	Symrise
	7.00	Ceraphyl® 368	Ethylhexyl Palmitate	ISP
	5.00	<b>SunBoost ATB</b>	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	<b>Kobo Products</b>
	3.00	Neo Heliopan® 357	Butyl Methoxydibenzoylmethane	Symrise
	3.00	Lipo® GMS 450	Glyceryl Stearate	Lipo Chemicals
	3.00	Neo Heliopan® BB	Benzophenone-3	Symrise
	2.00	Lipomulse® 165	Glyceryl Stearate (And) PEG-100 Stearate	Lipo Chemicals
	0.50	Lipowax® D	Cetearyl Alcohol (And) Cetareth-20	Lipo Chemicals
	0.50	Covi-ox® T-50	Tocopherol	Cognis Corporation
	0.30	Liposorb® TS	Sorbital Tristearate	Lipo Chemicals
<b>4</b>	1.00	Botanistat PF-64	Phenoxyethanol (and) Caprylyl Glycol (and) Ethylhexylglycerin (and) Hexylene Glycol	DD Chemco
<b>5</b>	1.00	Aculyn™ 44	PEG-150/Decyl Alcohol/SMDI Copolymer	Rohm & Haas

100

### Manufacturing Procedure

- In main kettle, combine Part 1 ingredients and heat to 78-80°C.
- Combine Part 2 ingredients and heat to 80°C. Mix until uniform using propeller mixer.
- Add Part 2 to Part 1 and mix until uniform.
- Combine Part 3 ingredients. Heat to 80°C and add to batch with propeller mixing.
- Add Part 4 while cooling.
- Homogenize for approximately 2 minutes at 4000 rpm.
- Add Part 5 to batch.
- Homogenize for approximately 1 minute at 4000 rpm.
- Cool batch to 30°C.

### Description

This sunscreen contains Kobo's new SunBoost-ATB. This product is a unique blend of antioxidants, anti-irritant and anti-inflammatory agents. In this sunscreen, SunBoost-ATB increased the SPF from 40.9 to 54.8.

### Notes

Active Ingredient(s)	
Homosalate	15.00%
Ethylhexyl Salicylate	10.00%
Butyl Methoxydibenzoylmethane	3.00%
Benzophenone-3	3.00%

SPF testing: in vivo on 3 subjects

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August, 2011

# Liquid Foundation featuring FAS Dispersions

## Formula KLF-042D-CH

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	15.00	<b>SF1528</b>	Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	<b>Momentive/Kobo Products</b>
	3.50	Lexol® PG-865	Propylene Glycol Dicaprylate/Dicaprate	Inolex Chemical Company
	2.50	Salacos 99	Isononyl Isononanoate	Ikeda Corporation
	2.50	<b>SS4230</b>	Cyclopentasiloxane (And) Trimethylsiloxysilicate	<b>Momentive/Kobo Products</b>
	2.00	<b>LUCENTITE SAN-P</b>	Quaternium-18 Hectorite	<b>Kobo Products</b>
	0.75	<b>SF1555</b>	Bis-Phenylpropyl Dimethicone	<b>Momentive/Kobo Products</b>
<b>2</b>	1.00	Ethyl Alcohol E1028	Ethyl Alcohol	VWR Scientific Products
<b>3</b>	14.00	<b>FAS70USI</b>	Titanium Dioxide (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	7.03	<b>SF1202</b>	Cyclopentasiloxane	<b>Momentive/Kobo Products</b>
	4.00	<b>FAS50EYSI</b>	Iron Oxides (C.I. 77492) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	0.80	<b>FAS55ERSI</b>	Iron Oxides (C.I. 77491) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	0.27	<b>FAS60EBSI</b>	Iron Oxides (C.I. 77499) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
<b>4</b>	39.00	Deionized Water	Water	
	3.50	Butylene Glycol	Butylene Glycol	Ruger Chemical Co., Inc.
	1.25	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	0.90	Sodium Chloride	Sodium Chloride	Morton Salt
	0.50	Jeecide CAP-5	Phenoxyethanol (And) Caprylyl Glycol (And) Potassium Sorbate (And) Water (And) Hexylene Glycol	Jeen International
	0.50	Tween™ 20	Polysorbate 20	Croda

100

### Manufacturing Procedure

- Homogenize all ingredients of Part 1 until fully dispersed. Homogenize at least 20 minutes at 3000 RPM.
- Add Part 2 to dispersed Part 1 at room temperature. Homogenize for 15 minutes.
- Add Part 3 to dispersed Parts 1 and 2 at room temperature and homogenize until dispersed.
- Add Part 4 ingredients together in separate tank and slowly add to Parts 1, 2 and 3 with homogenization.

### Description

This liquid foundation features Kobo's FAS Iron Oxide Dispersions for color consistency and ease of manufacturing. SF1528 is an excellent W/O emulsifier and SS4230 helps give wear. SF1202 gives playtime during application while SF1555 helps with feel in application. Lucentite SAN-P gives thickness to the formula.

### Notes

Active Ingredient(s)	
Titanium Dioxide	9.60%

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# Elegant W/O Liquid Foundation featuring

Formula KLF-044B-CH

## ITT-Treated Pigments

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	12.00	<b>SF1528</b>	Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	<b>Momentive/Kobo Products</b>
	8.45	<b>SF1202</b>	Cyclopentasiloxane	<b>Momentive/Kobo Products</b>
	8.00	<b>SILSOFT ETS</b>	Ethyl Trisiloxane	<b>Momentive/Kobo Products</b>
	7.00	<b>RBTD-I2</b>	Titanium Dioxide (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	3.00	KF-6017	PEG-10 Dimethicone	Shin Etsu
	2.50	Lexol® PG-865	Propylene Glycol Dicaprylate/Dicaprate	Inolex Chemical Company
	2.50	Salacos 99	Isononyl Isononanoate	Ikeda Corporation
	2.50	<b>SS4230</b>	Cyclopentasiloxane (And) Trimethylsiloxysilicate	<b>Momentive/Kobo Products</b>
	2.20	<b>BYO-I2</b>	Iron Oxides (C.I. 77492) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	2.00	<b>LUCENTITE SAN-P</b>	Quaternium-18 Hectorite	<b>Kobo Products</b>
	0.75	<b>SF1555</b>	Bis-Phenylpropyl Dimethicone	<b>Momentive/Kobo Products</b>
	0.29	<b>BRO-I2</b>	Iron Oxides (C.I. 77491) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
0.25	<b>BBO-I2</b>	Iron Oxides (C.I. 77499) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>	
<b>2</b>	1.00	Ethyl Alcohol E1028	Ethyl Alcohol	VWR Scientific Products
<b>3</b>	37.91	Deionized Water	Water	
	3.50	Butylene Glycol	Butylene Glycol	Ruger Chemical Co., Inc.
	1.25	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	0.90	Sodium Chloride	Sodium Chloride	Morton Salt
	0.50	Jeecide CAP-5	Phenoxyethanol (And) Caprylyl Glycol (And) Potassium Sorbate (And) Water (And) Hexylene Glycol	Jeen International
	0.50	Tween™ 20	Polysorbate 20	Croda
<b>4</b>	2.00	<b>MSS-500W</b>	Silica	<b>Kobo Products</b>
100				

### Manufacturing Procedure

1. Homogenize all ingredients of Part 1 until fully dispersed.
2. Add Part 2 to the dispersed Part 1.
3. Add Part 3 to Parts 1 and 2 slowly with homogenizing at room temperature.
4. Add Part 4 to Parts 1, 2 and 3 slowly with homogenizing at room temperature.

### Description

This elegant W/O liquid foundation features Kobo's Isopropyl Titanium Triisostearate Treatment. The ITT-Treated Pigments help to prevent color change during the day, and improve the smoothness of application. MSS-500W helps impart an elegant feel in application and a soft focus effect. SF1555 helps to give a slip on application and couple the silicones to the esters. Silsoft ETS provides a quick dry time to help the foundation set. SS4230 helps the foundation to wear and SF1528 is an excellent W/O emulsifier. Lucentite SAN-P gives thickness to the formula.

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# Blemish Balm Crème with SPF

## Formula KLF-054-CH

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	5.00	Parsol® MCX	Ethylhexyl Methoxycinnamate	DSM Nutritional Products
	4.80	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	1.75	Lexol® PG-865	Propylene Glycol Dicaprylate/Dicaprate	Inolex Chemical Company
	1.75	Salacos 99	Isononyl Isononanoate	Ikeda Corporation
	1.25	THIXIN® R	Trihydroxystearin	Elementis Specialties
	0.75	SF1555	Bis-Phenylpropyl Dimethicone	Momentive/Kobo Products
	0.05	Melscreen Coffee ORG	Coffea Arabica (Coffee) Seed Oil	Taos Inc.
<b>2</b>	18.00	TNP50T7	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	Kobo Products
	11.00	FAS70USI	Titanium Dioxide (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylsilane	Kobo Products
	5.25	Element14 PDMS 5	Dimethicone	Momentive/Kobo Products
	1.80	FAS50EYSI	Iron Oxides (C.I. 77492) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylsilane	Kobo Products
	0.40	KF-6017	PEG-10 Dimethicone	Shin Etsu
	0.35	FAS55ERSI	Iron Oxides (C.I. 77491) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylsilane	Kobo Products
	0.20	FAS60EBSI	Iron Oxides (C.I. 77499) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylsilane	Kobo Products
<b>3</b>	37.95	Deionized Water	Water	
	2.00	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	1.00	Butylene Glycol	Butylene Glycol	Tri-K Industries
	0.50	Jeecide CAP-5	Phenoxyethanol (And) Caprylyl Glycol (And) Potassium Sorbate (And) Water (And) Hexylene Glycol	Jeen International
	0.40	Tween™ 20	Polysorbate 20	Croda
	0.10	Allantoin	Allantoin	Jeen International
	0.05	Bioskinup Contour	Water (And) Butylene Glycol (And) PEG-40 Hydrogenated Castor Oil (And) Ptychopetalum Olacoides Bark/Stem Extract (And) Pfaffia Paniculata Root Extract (And) Liliun Candidum Flower Extract	Taos Inc.
	0.05	IBR-CalmDeAge™ 1201	Glycerin (And) Water (And) Phoenix Dactylifera (Date) Seed Extract	Taos Inc.
	0.05	IBR-Snowflake® 1001	Water (And) Leucocjum Aestivum Blub Extract	Taos Inc.
	0.05	Activespheres VIT C PMg	Water (And) Butylene Glycol (And) Magnesium Ascorbyl Phosphate (And) Sodium Chondroitin Sulfate (And) Atelocollagen (And) Xanthum Gum (And) Polysorbate 20	Taos Inc.
<b>4</b>	3.00	MSS-500W	Silica	Kobo Products
<b>5</b>	0.25	Gs-PPY	Water (And) Papain (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Hydrogenated Lecithin (And) Parabens	Kobo Products
	0.25	Gs-GT	Water (And) Camellia Sinensis Extract (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Parabens (And) Hydrogenated Lecithin	Kobo Products

100

### Manufacturing Procedure

1. Combine Part 1 and Part 5
2. Homogenize Parts 1 and 2 together.
3. Add Part 3 while homogenizing.
4. Add Part 4 while homogenizing.

### Description

This cream foundation features Kobo's Titanium Dioxide Dispersion TNP50T7 to help achieve SPF. Kobo's FAS Pigmentary Dispersions provide excellent coverage and MSS-500W gives excellent application and soft focus. Glycospheres, Gs-GT and Gs-PPY aid in whitening, cell turnover and acne control. SF1555 and Element14 PDMS 5 give slip to the formula during application.

### Notes

Active Ingredient(s)	
Ethylhexyl Methoxycinnamate	5.00%
Titanium Dioxide	6.93%

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# Crème-to-Powder Concealer with SPC/MST-547-I2

## Formula KCP-015

Kobo Products - Formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	17.00	<b>SERICITE GMS-4C</b>	Mica	<b>Kobo Products</b>
	12.99	<b>RBTD-I2</b>	Titanium Dioxide (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	6.00	<b>SPC/MST-547-I2</b>	Polymethylsilsesquioxane (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.33	<b>BYO-I2</b>	Iron Oxides (C.I. 77492) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.33	<b>BRO-I2</b>	Iron Oxides (C.I. 77491) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	0.10	Methyl Paraben NF	Methylparaben	International Sourcing
	0.10	<b>BBO-I2</b>	Iron Oxides (C.I. 77499) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
<b>2</b>	32.55	Wicklenol 155	Ethylhexyl Palmitate	Alzo International Inc.
	12.00	Squalane NF	Squalane	Barnet Products Corp.
	6.00	Microcrystalline Wax SP-89	Microcrystalline Wax	Strahl & Pitsch, Inc.
	5.50	Lameform TGI	Polyglycerol-3 Diisostearate	Cognis Corp.
	3.00	Mineral Oil Carnation	Mineral Oil	Ruger Chemical Co., Inc.
	2.00	Softisan® 100	Hydrogenated Coco-Glycerides	Sasol
	2.00	Carnauba Wax SP 63	Copernicia Cerifera (Carnauba) Wax	Strahl & Pitsch, Inc.

100

### Manufacturing Procedure

1. Blend Part 1 and pass through a micronizer until the color is fully dispersed.
2. Heat Part 2 with stirring to 91-93°C. Maintain temperature for 30 minutes.
3. Add Part 1 to Part 2 and mix until homogeneous. Stir and cool to 88°C. Add Part 3.
4. Continue to mix until uniform while maintaining temperature. Fill at 85°C.

### Description

This crème to powder foundation uses a combination of Kobo's Sericite and ITT-Treated pigments which provides the basis for this crème-to-powder texture. SPC/MST-547-I2 gives a lightweight feel and helps the formula go immediately into a creamy powder texture on the skin. RBTD-I2 gives coverage to conceal spots and blemishes.

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March, 2010

# **KOBO**

www.koboproducts.com

# Wet / Dry Powder with Boron Nitride

## Formula KPP-013B

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	80.14	TALC U-11S2	Talc (And) Triethoxycaprylylsilane	Kobo Products
	7.00	BTD-11S2	Titanium Dioxide (And) Triethoxycaprylylsilane	Kobo Products
	5.00	BORONEIGE® 901	Boron Nitride	ESK/Kobo Products
	1.55	BYO-11S2	Iron Oxides (C.I. 77492) (And) Triethoxycaprylylsilane	Kobo Products
	0.90	BRO-11S2	Iron Oxides (C.I. 77491) (And) Triethoxycaprylylsilane	Kobo Products
	0.20	BBO-11S2	Iron Oxides (C.I. 77499) (And) Triethoxycaprylylsilane	Kobo Products
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	0.10	Methyl Paraben NF	Methylparaben	International Sourcing
2	1.67	SF96-20	Dimethicone	Momentive/Kobo Products
	1.67	LEXOL® PG-865	Propylene Glycol Dicaprylate/Dicaprate	Inolex Chemical Company
	1.67	ELEMENT14 PDMS 350	Dimethicone	Momentive/Kobo Products

100

### Manufacturing Procedure

1. Blend Part 1 through pulverizer until color is fully developed
2. Add Part 2 and blend well
3. Press at 250 psi

### Description

Powder foundation that can be used wet or dry, containing Boron Nitride and silane-treated talc.

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February, 2008

**KOBO**

www.koboproducts.com

# Pressed Powder with NJE Treated Materials

## Formula KPP-020C

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	44.48	GMS-NJE3	Mica (And) Jojoba Esters	Kobo Products
	40.00	TALC N-NJE2	Talc (And) Jojoba Esters	Kobo Products
	7.00	RBTD-671-NJE2	Titanium Dioxide (And) Jojoba Esters	Kobo Products
	1.00	BYO-NJE3	Iron Oxides (C.I. 77492) (And) Jojoba Esters	Kobo Products
	0.86	BRO-NJE2	Iron Oxides (C.I. 77491) (And) Jojoba Esters	Kobo Products
	0.46	BBO-NJE2	Iron Oxides (C.I. 77499) (And) Jojoba Esters	Kobo Products
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	0.10	Methyl Paraben NF	Methylparaben	International Sourcing
2	6.00	Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	Desert Whale Jojoba Co., Inc.

100

### Manufacturing Procedure

1. Blend Part 1 through pulverizer until color is fully developed.
2. Add Part 2 and blend well.
3. Press at 300 psi.

### Description

This natural powder foundation features Kobo's Jojoba Ester-treated pigments and powders to give great feel, even application and good adherence on the skin, contributing to long wear.

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October, 2010

**KOBO**  
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# Creamy Pressed Powder featuring MSS-500W

## Formula KPP-037-CH

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	74.90	<b>TALC N-I2</b>	Talc (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.92	<b>BYO-I2</b>	Iron Oxides (C.I. 77492) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.80	<b>BRO-I2</b>	Iron Oxides (C.I. 77491) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.38	<b>BBO-I2</b>	Iron Oxides (C.I. 77499) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
<b>2</b>	8.00	PE-48	Pentaerythritol Tetraoctanoate	Trivent Chemical Co.
<b>3</b>	15.00	<b>MSS-500W</b>	Silica	<b>Kobo Products</b>
100				

### Manufacturing Procedure

1. Blend Part 1 in a mixer until color is fully developed.
2. Combine Part 2. Add to Part 1 and blend well.
3. Add Part 3 and blend slowly until mixed.
4. Press at 500 psi.

### Description

This creamy pressed powder features Kobo's ITT-Treated Pigments which provide an excellent application on the skin. Talc N-I2 gives a creamy feel and texture. Kobo's Spherical, Silica Microsphere, MSS-500W, gives slip during application and helps achieve a matte finish.

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January, 2011

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**KOBO**

www.koboproducts.com

# Control for KPP-037

## Formula KPP-037A-CH

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	89.90	<b>TALC N-I2</b>	Talc (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.92	<b>BYO-I2</b>	Iron Oxides (C.I. 77492) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.80	<b>BRO-I2</b>	Iron Oxides (C.I. 77491) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	0.38	<b>BBO-I2</b>	Iron Oxides (C.I. 77499) (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
<b>2</b>	8.00	PE-48	Pentaerythritol Tetraoctanoate	Trivent Chemical Co.
100				

### Manufacturing Procedure

1. Blend Part 1 in a mixer until color is fully developed.
2. Combine Part 2. Add to Part 1 and blend well.
3. Press at 500 psi.

### Description

Control for KPP-037 to show the effect of Kobo's Spherical Silica Microsphere, MSS-500W.

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www.koboproducts.com

# Pressed Powder with Composite ACT-50

Formula KPP-047



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	35.01	TALC N/MM3	Talc (And) Magnesium Myristate	Kobo Products
	26.24	GMS-I2	Mica (And) Isopropyl Titanium Triisostearate	Kobo Products
	25.00	COMPOSITE ACT-50	Titanium Dioxide (And) Acrylates Copolymer (And) Hydrated Silica (And) Algin (And) Aluminum Hydroxide	Kobo Products
	5.00	ZINC MYRISTATE	Zinc Myristate	Kobo Products
	1.80	BYO/MM3	Iron Oxides (C.I. 77492) (And) Magnesium Myristate	Kobo Products
	1.20	BRO/MM3	Iron Oxides (C.I. 77491) (And) Magnesium Myristate	Kobo Products
	0.55	BBO/MM3	Iron Oxides (C.I. 77499) (And) Magnesium Myristate	Kobo Products
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	0.10	Methyl Paraben NF	Methylparaben	International Sourcing
2	5.00	Jeescreen OMC	Ethylhexyl Methoxycinnamate	Jeen International

100

**Manufacturing Procedure**

1. Micropulverize Part 1 until color is fully developed.
2. Add Part 2 to Part 1.
3. Blend well and micropulverize.
4. Press at 500 psi.

**Description**

This powder features Kobo's Composite ACT-50 which is a transparent, non-nano, entrapped Titanium Dioxide. It gives improved hydrophobicity to the formula, and enhanced skin feel during application. Kobo's Zinc Myristate, Treated pigments, Talc N/MM3 and GMS-I2 are used to give great feel and adherence on the skin.

**Notes**

Active Ingredient(s)	
Ethylhexyl Methoxycinnamate	5.00%
Titanium Dioxide	12.75%

SPF testing: in vivo on 3 subjects

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www.koboproducts.com

# Long-Wear, Liquid Eye Liner Featuring

Formula **KEL-003**

**W60BBNFAP & WSJ10CB**

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	29.50	Deionized Water	Water	
	1.00	Natrosol® 250 HHR	Hydroxyethylcellulose	Hercules-Aqualon
<b>2</b>	31.50	<b>DAITOSOL 5000SJ</b>	Acrylates/Ethylhexyl Acrylate Copolymer (And) Water	<b>Daito/Kobo Products</b>
<b>3</b>	25.00	<b>W60BBNFAP</b>	Iron Oxides (C.I. 77499) (And) Water (And) Ammonium Polyacrylate	<b>Kobo Products</b>
	10.00	<b>WSJ10CB</b>	Black 2 (And) PEG-40 Hydrogenated Castor Oil (And) Water (And) Acrylates/Ethylhexyl Acrylate Copolymer (And) Aminomethyl Propanol (And) Sodium Dehydroacetate (And) Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (And) Laureth-21	<b>Kobo Products</b>
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
<b>4</b>	2.00	<b>TR-1</b>	Nylon-6	<b>Toray/Kobo Products</b>

100

### Manufacturing Procedure

1. Heat water until almost boiling and add Natrosol® 250 HHR.
2. Allow Part 1 to cool while stirring to form a gel.
3. Add Part 2 to Part 1. Mix at 200 RPM for 10 minutes.
4. Neutralize using Triethanolamine.
5. Add Part 3. Mix at 300 RPM for 10 minutes.
6. Add Part 4 slowly while mixing.

### Description

This long-wear, liquid eyeliner features Kobo's Carbon Black dispersion, WSJ10CB, along with Kobo's Pigmentary Dispersion, W60BBNFAP, which are used to create a deep, intense black color. Daitosol 5000SJ is used to produce a long-wearing film and provide water resistance. TR-1 is a Microsphere used to create build-up.

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**KOBO**

www.koboproducts.com

December, 2010

# High Impact Color Lipstick with Koboguard®

## Formula KLP-024C

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	17.80	Castor Oil	Ricinus Communis (Castor) Seed Oil	Alzo International Inc.
	15.00	<b>INBP75ER</b>	Iron Oxides (C.I. 77491) (And) Isononyl Isononanoate (And) Isopropyl Myristate (And) Stearalkonium Hectorite (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Propylene Carbonate	<b>Kobo Products</b>
	15.00	<b>INBP45R7C</b>	Red 7 Lake (And) Isononyl Isononanoate (And) Isopropyl Myristate (And) Stearalkonium Hectorite (And) Isopropyl Titanium Triisostearate (And) Propylene Carbonate (And) Polyhydroxystearic Acid	<b>Kobo Products</b>
	12.00	Softisan® 645	Bis-Diglyceryl Polyacyladipate-1	Sasol
	11.00	Wickenol 155	Ethylhexyl Palmitate	Alzo International Inc.
	6.00	Candelilla Wax SP 75	Euphorbia Cerifera (Candelilla) Wax	Strahl & Pitsch, Inc.
	4.50	Ozokerite Wax White SP 1020	Ozokerite	Strahl & Pitsch, Inc.
	3.00	Lipowax® D	Cetearyl Alcohol (And) Cetareth-20	Lipo Chemicals
	2.50	Shea Butter	Shea Butter	Cognis Corp.
	2.00	Microcrystalline Wax SP-89	Microcrystalline Wax	Strahl & Pitsch, Inc.
	1.00	<b>MSS-500/3H</b>	Silica	<b>Kobo Products</b>
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	0.10	BHT Food Grade Crystal	BHT	Protameen
	2	5.00	<b>KTZ® CLASSIC WHITE-I2</b>	Mica (And) Titanium Dioxide (And) Isopropyl Titanium Triisostearate
5.00		<b>KOBOGUARD® 5400 CCT</b>	Hydrogenated Polycyclopentadiene (And) Caprylic/Capric Triglyceride	<b>Kobo Products</b>

100

### Manufacturing Procedure

1. In main tank equipped with propeller agitation, combine Part 1 ingredients and heat to 80°C - 85°C.
2. Continue mixing for 20 minutes and add Part 2.
3. Once shade is adjusted, begin force cooling batch. Continue cooling to 78°C - 80°C.
4. Pour into molds at 78°C - 80°C.

### Description

This high impact color lipstick contains Kobo's Pigmentary Dispersions, INBP75ER and INBP45R7C, which are used for their high percentage of color. They also help to improve wear and formula aesthetics. KTZ® Classic White is treated with ITT for optimal glide and creates a shimmering, frosted effect. Kobo's Microsphere, MSS-500/3H, is used to achieve better application and helps to reduce sweating. Koboguard® 5400 CCT gives gloss to the formula and helps to provide long wear properties.

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August, 2010

# **KOBO**

www.koboproducts.com

# Non-Transfer Lipstick with Koboguard® HRPC

## Formula KLP-033B

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	25.00	<b>KOBOGUARD® HRPC</b>	Hydrogenated Polycyclopentadiene (And) Polyethylene (And) Copernicia Cerifera (Carnauba) Wax (And) Tocopherol	<b>Kobo Products</b>
	7.25	<b>INBP75ER</b>	Iron Oxides (C.I. 77491) (And) Isononyl Isononanoate (And) Isopropyl Myristate (And) Stearalkonium Hectorite (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Propylene Carbonate	<b>Kobo Products</b>
	7.00	Candelilla Wax SP 75	Euphorbia Cerifera (Candelilla) Wax	Strahl & Pitsch, Inc.
	5.00	<b>SERICITE GMS-4C</b>	Mica	<b>Kobo Products</b>
	4.50	Ozokerite Wax White SP 1020P	Ozokerite	Strahl & Pitsch, Inc.
	2.00	Microcrystalline Wax SP-89	Microcrystalline Wax	Strahl & Pitsch, Inc.
<b>2</b>	49.25	Permethyl 99AD	Isododecane	Presperse
100				

### Manufacturing Procedure

\*Use explosion-proof mixers and equipment during batching process\*

1. Combine Part 1 and heat to 90°C. Mix well under propeller until color is fully dispersed.
2. Cool to 80°C and add Part 2.
3. Pour into molds.

### Description

This lipstick contains Koboguard® HRPC, which gives non-transfer properties, aids in long wear, and provides a waterproof film. Kobo's Pigmentary Dispersion, INBP75ER provides fully developed color, and Sericite GMS-4C gives a glide-on application.

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**KOBO**

www.koboproducts.com

# Lengthening Mascara

## Formula KMA-025

Kobo Products - Formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	8.00	Beeswax White SP 422	Beeswax	Strahl & Pitsch, Inc.
	7.00	Ozokerite Wax White SP 1020	Ozokerite	Strahl & Pitsch, Inc.
	3.00	Carnauba Wax SP 63	Copernicia Cerifera (Carnauba) Wax	Strahl & Pitsch, Inc.
	3.00	Dermofat 4919	Stearic Acid	Alzo International Inc.
	3.00	Microcrystalline Wax SP-89	Microcrystalline Wax	Strahl & Pitsch, Inc.
	2.00	<b>KOBOGUARD® 5400 SQ</b>	Hydrogenated Polycyclopentadiene (And) Squalane	<b>Kobo Products</b>
	1.00	Liposorb® SQO	Sorbitan Sesquileate	Lipo Chemicals
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
<b>2</b>	40.15	Deionized Water	Water	
	11.00	<b>W60BBNFAP</b>	Iron Oxides (C.I. 77499) (And) Water (And) Ammonium Polyacrylate	<b>Kobo Products</b>
	1.00	Triethanolamine 99	Triethanolamine	Dow Chemical
	0.30	Natrosol® 250 HHR	Hydroxyethylcellulose	Hercules-Aqualon
	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
<b>3</b>	2.00	<b>KNY-1.7</b>	Nylon-6 (And) Silica (And) Titanium Dioxide	<b>Kobo Products</b>
	1.50	<b>DSPCS-I2</b>	Silica (And) Ethylene/Methacrylate Copolymer (And) Isopropyl Titanium Triisostearate	<b>Kobo Products</b>
	1.00	Deionized Water	Water	
	0.60	Jeecide CAP-5	Phenoxyethanol (And) Caprylyl Glycol (And) Potassium Sorbate (And) Water (And) Hexylene Glycol	Jeen International
	0.15	Gemall® 115	Imidazolidinyl Urea	ISP
<b>4</b>	15.00	<b>WSJ22BNF</b>	Water (And) Acrylates/Ethylhexyl Acrylate Copolymer (And) Iron Oxides (C.I. 77499) (And) Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (And) Aminomethyl Propanol	<b>Kobo Products</b>

100

### Manufacturing Procedure

1. Heat Part 1 to 80°C in auxiliary tank.
2. Heat Part 2 to 80°C in main tank.
3. Add Part 1 to Part 2 in main tank with propeller and sweep agitation at 80°C.
4. Cool to 50°C.
5. Add Part 3 ingredients at 50°C.
6. Add Part 4 at 45°C.
7. Cool to 25°C - 27°C.

### Description

This lengthening mascara features Kobo's Nylon Fibers, KNY-1.7, which give a lengthening effect while Kobo's Microsphere Complex, DSPCS-I2, is lightweight and provides volume to the lash without weight. It also contributes to ease in manufacturing. Kobo's Resin Composite, Koboguard® 5400 SQ, gives a quick build up with a water-resistant film and aids in long wear. Kobo's Pigmentary Dispersions, W60BBNFAP and WSJ22BNF, are used in combination to provide a deep black shade and film-forming properties.

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April, 2010

# **KOBO**

www.koboproducts.com

# Moisturizing Lotion with Microspheres

## Formula KFL-010

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	11.50	<b>SF1528</b>	Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	<b>Momentive/Kobo Products</b>
	8.50	<b>SF1202</b>	Cyclopentasiloxane	<b>Momentive/Kobo Products</b>
	7.50	<b>SF1214</b>	Cyclopentasiloxane (And) Dimethicone	<b>Momentive/Kobo Products</b>
	0.10	Fragrance	Fragrance	Bell Flavors & Fragrances
<b>2</b>	7.50	<b>EA-209</b>	Ethylene/Acrylic Acid Copolymer	<b>Kobo Products</b>
<b>3</b>	50.60	Deionized Water	Water	
	13.00	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	0.20	RITAbate 80	Polysorbate 80	RITA Corp.
	0.10	Dowicil™ 200	Quaternium-15	Dow Chemical

100

### Manufacturing Procedure

\*Use explosion-proof mixers and equipment during batching process\*

1. Combine Part 1 liquid ingredients into main tank and homogenize for 15 minutes.
2. Sift in EA-209 slowly. Continue homogenization for 15 minutes after complete addition of microsphere.
3. In a side container using propeller agitation, mix Part 3 ingredients until solution is homogenous and clear. Add Part 3 to main tank in quarter parts mixing at least 15-20 minutes between each addition.

\*\*Batch temperature will increase while mixing.\*\*

4. When batch appears homogenous, fill into appropriate containers.

### Description

This formula was panel tested and shows a high degree of perceived moisturization, combined with an 'illuminating glow' and 'natural look'. Kobo's EA-209 Microspheres are responsible for achieving these effects within a water-in-silicone base.

### Specifications

Viscosity : RVTC @ 2.5rpm, 24hr = 312,000cps

Stability : 4 weeks @ 50°C

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June, 2004

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**KOBO**

www.koboproducts.com

# Line Minimizer with Microspheres and

Formula KFL-011K

# Glycospheres

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	11.50	<b>SF1528</b>	Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	<b>Momentive/Kobo Products</b>
	8.50	<b>SF1202</b>	Cyclopentasiloxane	<b>Momentive/Kobo Products</b>
	7.50	<b>SF1214</b>	Cyclopentasiloxane (And) Dimethicone	<b>Momentive/Kobo Products</b>
<b>2</b>	7.50	<b>BPD-500W</b>	HDI/Trimethylol Hexyllactone Crosspolymer (And) Silica	<b>Kobo Products</b>
<b>3</b>	54.70	Deionized Water	Water	
	8.00	Glycerin U.S.P. Natural 96%	Glycerin	Univar USA Inc.
	1.00	Sodium Chloride	Sodium Chloride	Morton Salt
	0.50	<b>Gs-VA100C</b>	Butylene Glycol (And) Water (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Polysorbate 20 (And) Retinol (And) Phenoxyethanol (And) Parabens (And) Hydrogenated Lecithin (And) BHT (And) BHA	<b>Kobo Products</b>
	0.50	<b>Gs-PPY</b>	Water (And) Papain (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Hydrogenated Lecithin (And) Parabens	<b>Kobo Products</b>
	0.20	Liposorb® O-20	Polysorbate 80	Lipo Chemicals
	0.10	Dowicil™ 200	Quaternium-15	Dow Chemical

100

### Manufacturing Procedure

\*Use explosion-proof mixers and equipment during batching process\*

1. Combine Part 1 liquid ingredients into main tank and homogenize for 15 minutes.
2. Sift in BPD-500W slowly. Continue homogenization for 15 minutes after complete addition of microsphere.
3. In a side container using propeller agitation, mix Part 3 ingredients until solution is homogenous and clear. Add Part 3 to main tank in quarter parts mixing at least 15-20 minutes between each addition.

\*\*Batch temperature will increase while mixing.\*\*

4. When the batch is homogenous, fill into appropriate units.

### Description

This formula visibly reduces wrinkles and lines, and helps to control oily shine throughout the day for a silky appearance on the skin. Kobo's BPD-500W helps to blur the appearance of wrinkles and fine lines. SF1528 is a W/O emulsifier and is used to make this cold emulsion. SF1202 and SF1214 are used to enhance feel during application. Gs-PPY and Gs-VA100C are delivery systems and are able to protect active ingredients from degradation.

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January, 2009

**KOBO**

www.koboproducts.com

# Brightening Eye Serum featuring Glycospheres

## Formula KFL-018

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
<b>1</b>	32.80	Dow Corning 9040 Silicone Gel	Cyclopentasiloxane (And) Dimethicone Crosspolymer	Dow Chemical
	15.00	<b>SF1202</b>	Cyclopentasiloxane	<b>Momentive/Kobo Products</b>
	3.50	ABIL® EM 90	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
<b>2</b>	26.13	Deionized Water	Water	
	15.60	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
	0.50	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
	0.50	Allantoin	Allantoin	Jeen International
	0.40	Polysorbate 20	Polysorbate 20	Ruger Chemical Co., Inc.
	0.38	<b>Gs-VE</b>	Water (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Tocopherol (And) Parabens (And) Hydrogenated Lecithin	<b>Kobo Products</b>
	0.38	<b>Gs-VA100C</b>	Butylene Glycol (And) Water (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Polysorbate 20 (And) Retinol (And) Phenoxyethanol (And) Parabens (And) Hydrogenated Lecithin (And) BHT (And) BHA	<b>Kobo Products</b>
	0.25	<b>Gs-PCOG</b>	Water (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Grape (Vitis Vinifera) Seed Extract (And) Phenoxyethanol (And) Parabens (And) Hydrogenated Lecithin	<b>Kobo Products</b>
<b>3</b>	4.20	<b>MST-547</b>	Polymethylsilsesquioxane	<b>Kobo Products</b>
<b>4</b>	0.20	<b>KTZ® GOLD LAME</b>	Mica (And) Titanium Dioxide (And) Iron Oxides (C.I. 77491)	<b>Kobo Products</b>
	0.15	<b>FAS70USI</b>	Titanium Dioxide (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
	0.01	<b>FAS50EYSI</b>	Iron Oxides (C.I. 77492) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Triethoxycaprylylsilane	<b>Kobo Products</b>
100				

### Manufacturing Procedure

- Mix Part 1 under propeller until gel forms.
- Mix Part 2 under propeller until homogeneous.
- Combine Parts 1 and 2 under propeller.
- Add Part 3 while homogenizing.
- Add Part 4 under propeller.

### Description

This eye serum features Kobo's FAS Dispersions which give color consistency and ease of manufacturing. KTZ® Gold Lame Pearlescent Pigment helps to cover up blue, dark circles and provides brightening. This eye serum also contains MST-547, a non-absorbant silicone sphere that gives a soft focus effect. Glycospheres, Gs-VE, Gs-PCOG and Gs-VA100C, protect and deliver active ingredients for reducing puffiness around the eye area.

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# **KOBO**

www.koboproducts.com

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