

FORMULARY

Supplier's Day Perú 2016

KOBO

www.koboproducts.com

Contents

- Sunscreen Formulas:

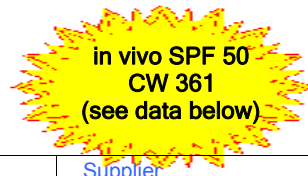
- Page 1 KSL-086 **W/O High SPF Suncare**-SPF 50-Featuring TNP40VTTS
- Page 2 KSL-171C **Sunscreen Stick**-SPF 44 -Featuring SunBoost ATB™, HBTN55TIS & HBTN65HP1
- Page 3 KSL-177C-CH **Economical O/W Sunscreen**-SPF 30-Featuring SunBoost ATB™, TNP50T7 & TNP65FZS
- Page 4 KSL-250A **O/W Natural Sunscreen**-SPF 34-Featuring JOP80MZCJ, SunBoost ATB™ Natural, & EMP50TEL
- Page 5 KSL-251 **W/O Natural Sunscreen**-Featuring EMP50TEL, SunBoost ATB™ Natural & JOP80MZCJ
- Page 6 KSL-271 **O/W Sunscreen**-SPF 66-Featuring TNSS75MZCM, HBP45TEL & SunBoost ATB™
- Page 7 KSL-271A **O/W Sunscreen (no additional booster)**-SPF 44-Featuring TNSS75MZCM
- Page 8 KSL-303-BR **Kids' Sunscreen**-SPF 54-Featuring EMP50TEL, JOP80MZCJ & SunBoost ATB™
- Page 9 KSL-312 **Sunscreen Gel**-SPF 33-Featuring TNP50ZSI, TNP65FZS & SunBoost ATB™

- Foundation Formulas:

- Page 10 KLF-105A **Cushioned Liquid Foundation**-SPF 23-Featuring TNP50T7-ATB
- Page 11 KLF-170-BR **Anti-Pollution Foundation**-SPF 32-Featuring INH73MZ, INP60T7, SunBoost ATB™ & Composite ACT-50

W/O High SPF Suncare

Formula KSL-086



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	52.39	Deionized Water	Water	
	3.00	Propylene Glycol	Propylene Glycol	Symrise
	0.50	Sodium Chloride	Sodium Chloride	Morton Salt
	0.20	Allantoin	Allantoin	DSM Nutritional Products
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
2	10.00	TNP40VTTS	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate (And) Triethoxycaprylylsilane	Kobo Products
	10.00	Uvinul® N 539 T	Octocrylene	BASF
	8.50	Uvinul® MC 80**	Ethylhexyl Methoxycinnamate	BASF
	4.00	Cetiol® 868	Ethylhexyl Stearate	Cognis Corp.
	2.50	Arlacel™ P135	PEG-30 Dipolyhydroxystearate	Croda
	2.50	ABIL® WE 09	Polyglyceryl-4 Isostearate (And) Cetyl PEG/PPG-10/1 Dimethicone (And) Hexyl Laurate	Evonik
	1.50	Uvinul® M 40	Benzophenone-3	BASF
	1.00	Crodafos CES	Cetearyl Alcohol (And) Dicetyl Phosphate (And) Ceteth-10 Phosphate	Croda
	1.00	Cetiol® SB 45	Shea Butter	Cognis Corp.
	1.00	DC 345	Cyclopentasiloxane (And) Cyclohexasiloxane	Dow Corning
	1.00	ABIL® Wax 9801	Cetyl Dimethicone	Evonik
	0.50	Microcrystalline Wax SP 94	Microcrystalline Wax	Strahl & Pitsch, Inc.
	0.20	Rosemary Oleoresin HQ 3401	Rosemarinus Officinalis (Rosemary) Leaf Extract	Hilltech
	0.06	Propyl Paraben NF	Propylparaben	International Sourcing

100

Manufacturing Procedure

- *Use explosion-proof mixers and equipment during batching process*
- Mix Part 1 in the order listed until homogeneous and smooth and heat to 80°C.
 - Heat Part 2 to 80°C.
 - Divide the aqueous phase (Part 1) into three aliquots. Add each one slowly to the oil phase (Part 2) with 10 minutes mixing between each addition.
 - After emulsification is complete, continue stirring while cooling to 33°C.
 - Homogenize product for 3 minutes or so at 33-35°C.

Description

This sunscreen provides a high SPF 50 with the use of Kobo's Titanium Dioxide Dispersion, TNP40VTTS. This is combined with three organic UV absorbers to synergize and optimize protection from the sun. Allantoin and Shea Butter supplement healing of the skin. TNP40VTTS is transparent on the skin.

**The USA limit of Ethylhexyl Methoxycinnamate is 7.5%.
This formula is for Europe only.

Notes

Active Ingredient(s)	Percentage
Titanium Dioxide	3.20%
Ethylhexyl Methoxycinnamate	8.50%
Octocrylene	10.00%
Benzophenone-3	1.50%

SPF testing: in vivo on 3 subjects

Kobo Products, Inc.

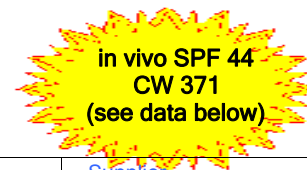
3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

KOBO

www.koboproducts.com

Sunscreen Stick with SunBoost ATB™

Formula KSL-171C



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	25.14	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	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	5.00	Castor Oil	Ricinus Communis (Castor) Seed Oil	Alzo International Inc.
	4.50	Carnauba Wax	Copernica Cerifera (Carnauba) Wax	Strahl & Pitsch, Inc.
	4.00	Softisan® 100	Hydrogenated Coco-Glycerides	Condea Chemie
	4.00	Beeswax White SP 422P	Beeswax	Strahl & Pitsch, Inc.

100

<p>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.</p>	<p>Description This sunscreen stick contains Kobo's new SunBoost ATB™, which contains a proprietary ratio of anti-oxidants, anti-irritant and anti-inflammatory agents. SunBoost ATB™ increased this sunscreen's SPF from 31.4 to 44.93. It can also boost PFA values. This sunscreen also 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. This stick applies smoothly and is convenient to use. This formula contains 8.2% Butyloctyl Salicylate.</p>						
	<p>Notes</p> <table border="0"> <tr> <td>Active Ingredient(s)</td> <td></td> </tr> <tr> <td> Zinc Oxide</td> <td style="text-align: right;">4.60%</td> </tr> <tr> <td> Titanium Dioxide</td> <td style="text-align: right;">6.00%</td> </tr> </table> <p>SPF testing: in vivo on 3 subjects</p>	Active Ingredient(s)		Zinc Oxide	4.60%	Titanium Dioxide	6.00%
Active Ingredient(s)							
Zinc Oxide	4.60%						
Titanium Dioxide	6.00%						

Kobo Products, Inc.

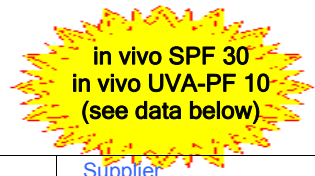
3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com



www.koboproducts.com

Economical O/W Sunscreen with SunBoost ATB™ & TNP Dispersions

Formula KSL-177C-CH



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	61.20	Deionized Water	Water	
	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
2	4.00	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
	0.20	Keltrol® CG	Xanthan Gum	CP Kelco
3	15.00	TNP50T7	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Methicone	Kobo Products
	6.00	TNP65FZS	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Kobo Products
	3.60	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	2.50	Lipopeg® 100-S	PEG-100 Stearate	Vantage
	1.50	Lipo® GMS 450	Glyceryl Stearate	Vantage
	0.60	Dermol 25B	C12-15 Alkyl Benzoate	Alzo International Inc.
	0.40	Shea Butter	Shea Butter	Cognis Corp.
4	3.00	MSS-500W	Silica	Kobo Products
	1.00	Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	SEPPIC

100

<p>Manufacturing Procedure</p> <ol style="list-style-type: none"> 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. 	<p>Description</p> <p>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 30, with minimal whitening on the skin. MSS-500W spherical silica microsphere provides slip during application and reduces shine on the skin. SunBoost ATB™, a proprietary ratio of anti-oxidants, anti-irritant and anti-inflammatory agents, helps boost SPF and PFA.</p>						
	<p>Notes</p> <table border="0"> <tr> <td>Active Ingredient(s)</td> <td></td> </tr> <tr> <td> Titanium Dioxide</td> <td>5.78%</td> </tr> <tr> <td> Zinc Oxide</td> <td>3.74%</td> </tr> </table> <p>SPF testing: in vivo on 3 subjects</p>	Active Ingredient(s)		Titanium Dioxide	5.78%	Zinc Oxide	3.74%
Active Ingredient(s)							
Titanium Dioxide	5.78%						
Zinc Oxide	3.74%						

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
 tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com



www.koboproducts.com

O/W Natural Sunscreen with JOP80MZCJ & EMP50TEL

Formula KSL-250A

**in vivo SPF 34
in vivo UVA-PF 12
CW 382
(see data below)**

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	51.65	Deionized Water	Water	
	2.15	Sucrose Stearate C-1816	Sucrose Stearate	Lonza Inc.
	1.00	Geogard™ Ultra™	Gluconolactone (And) Sodium Benzoate	Lonza Inc.
	1.00	ESP Organic Evaporated Cane Juice Sugar	Sucrose	Earth Supplied Products, LLC
	1.00	Di-Sodium Tetraborate Decahydrate	Sodium Borate	EMD Chemicals Inc.
2	7.00	Glycerin U.S.P. Natural 96%	Glycerin	Ruger Chemical
	0.65	KELTROL® CG	Xanthan Gum	CP Kelco
3	15.00	JOP80MZCJ	Zinc Oxide (And) Simmondsia Chinensis (Jojoba) Seed Oil (And) Polyhydroxystearic Acid (And) Jojoba Esters	Kobo Products
	8.40	Sunflower Oil High Oleic	Sunflower (Helianthus Annus) Seed Oil	Brenntag Specialties
	5.00	EMP50TEL	Titanium Dioxide (And) Ethyl Macadamiate (And) Silica (And) Alumina (And) Stearic Acid (And) Polyhydroxystearic Acid	Kobo Products
	2.00	SunBoost ATB™ Natural	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	2.00	Dermofat 4919	Stearic Acid	Alzo International
	1.15	Polyaldo™ HGDS KFG (6-2-S)	Polyglyceryl-6 Distearate	Lonza Inc.
4	2.00	MSS-500W	Silica	Kobo Products
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.

Description

This O/W sunscreen contains all natural materials and offers a high SPF. It contains Kobo's non-nano natural sunscreen dispersions; EMP50TEL and JOP80MZCJ. SunBoost ATB™ Natural, a proprietary ratio of anti-oxidants, anti-irritant and anti-inflammatory agents, helps boost SPF and PFA. MSS-500W spherical silica contributes to slip during application and reduces shine on the skin.

Notes

Active Ingredient(s)	
Titanium Dioxide	2.20%
Zinc Oxide	11.64%

SPF testing: in vivo on 3 subjects

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

December, 2013

KOBO

www.koboproducts.com

W/O Natural Sunscreen with EMP50TEL and

Formula KSL-251

JOP80MZCJ

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	45.00	Deionized Water	Water	
2	2.00	Glycerin U.S.P. Natural 96%	Glycerin	Ruger Chemical
	1.00	Magnesium Sulphate	Magnesium Sulfate	Mallinckrodt
	0.50	Sodium Chloride	Sodium Chloride	Morton Salt
	0.10	KELTROL® CG	Xanthan Gum	CP Kelco
3	15.50	JOP80MZCJ	Zinc Oxide (And) Simmondsia Chinensis (Jojoba) Seed Oil (And) Polyhydroxystearic Acid (And) Jojoba Esters	Kobo Products
	11.50	EMP50TEL	Titanium Dioxide (And) Ethyl Macadamiate (And) Silica (And) Alumina (And) Stearic Acid (And) Polyhydroxystearic Acid	Kobo Products
	5.00	SunBoost ATB™ Natural	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	4.00	Liponate® GC	Caprylic/Capric Triglyceride	Vantage
	3.00	Myritol® 331	Cocoglycerides	Cognis Corp.
	3.00	DEHYMULS® PGPH	Polyglyceryl-2 Dipolyhydroxystearate	Cognis Corp
	3.00	Cetiol® CC	Dicaprylyl Carbonate	Cognis Corp.
	2.00	Sunflower Oil High Oleic	Sunflower (Helianthus Annus) Seed Oil	Brenntag Specialties
	1.00	LEXGARD® GMCY	Glyceryl Caprylate	Inolex Chemical Company
	1.00	Shea Butter	Shea Butter	RITA Corp.
	0.50	Brazil Nut Oil	Bertholletia Excelsa Seed Oil	RITA Corp.
	0.50	Campo® Coffee Oil Decol & Deor.	Coffea Arabica (Coffee) Seed Oil	Bio Organic Concepts
	0.50	MONOMULS® 90-O 18	Glyceryl Oleate	Cognis Corp.
	0.50	Covi-Ox® T-70 C	Tocopherol	BASF
	0.40	Mango Butter	Mangifera Indica (Mango) Seed Butter	RITA Corp.

100

Manufacturing Procedure

1. In the main kettle, heat Part 1 ingredients to 78-80°C.
2. Combine Part 2 ingredients, mixing to form a slurry.
3. Slowly add Part 2 slurry to Part 1 while propeller mixing until uniform.
4. Combine Part 3 ingredients and heat to 80°C.
5. Slowly add Part 3 to Parts 1 and 2 while propeller mixing until homogenous.
6. Homogenize for approximately 2 minutes at 4000 rpm.
7. Cool batch to 30°C.

Description

This W/O sheer, natural sunscreen contains Ecocert compliant materials. This high SPF sunscreen uses Kobo's non-nano natural sunscreen dispersions, EMP50TEL and JOP80MZCJ. SunBoost ATB™ Natural, a proprietary ratio of antioxidants, anti-irritant and anti-inflammatory agents, helps boost SPF and PFA.

Notes

Active Ingredient(s)	
Titanium Dioxide	5.06%
Zinc Oxide	12.02%

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

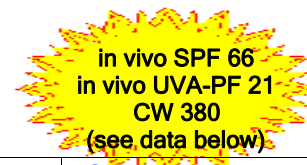
KOBO

www.koboproducts.com

November, 2013

O/W Sunscreen with TNSS75MZCM

Formula KSL-271



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	45.70	Deionized Water	Water	
2	5.00	Niacinamide USP, FCC Powder	Niacinamide	EMD Chemicals Inc.
	1.00	Liposorb® L-20	Polysorbate 20	Vantage
	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
3	4.00	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
	0.20	KELTROL® CG	Xanthan Gum	CP Kelco
4	9.80	TNSS75MZCM	Zinc Oxide (And) Ethylhexyl Methoxycrylene (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Hydrogen Dimethicone	Kobo Products
	9.50	Dermol 25B	C12-15 Alkyl Benzoate	Alzo International Inc.
	8.65	HBP45TEL	Butyloctyl Salicylate (And) Titanium Dioxide (And) Alumina (And) Silica (And) Stearic Acid (And) Polyhydroxystearic Acid	Kobo Products
	5.00	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	2.45	Lipopeg® 100-S	PEG-100 Stearate	Vantage
	1.00	Lipo® GMS 450	Glyceryl Stearate	Vantage
	0.40	Shea Butter	Shea Butter	Cognis Corp.
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
	5	3.00	MSS-500W	Silica
1.00		Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	ChemYUnion/SEPPIC
6	3.00	DAITOSOL 5000AD	Acrylates Copolymer (And) Water	Daito/Kobo Products

100

<p>Manufacturing Procedure</p> <ol style="list-style-type: none"> 1. Combine Parts 1 and 2 and heat to 70°C. 2. Combine Part 3 ingredients into a slurry and add to Parts 1 and 2 while mixing. 3. Combine Part 4 and heat to 70°C. 4. Combine Parts 1 and 2 with Part 3 under homogenization. 5. Slowly add Part 4 to Part 1, 2 & 3 until homogenous. 6. Cool Batch to 35°C then add Part 5 & 6 until homogenous. 	<p>Description</p> <p>This O/W Sunscreen features Kobo's Non-Nano Titanium Dioxide Dispersion, HBP45TEL, to help achieve high SPF while offering minimal whitening without using a nanoparticle. Also featured is TNSS75MZCM, Kobo's Non-Nano Zinc Oxide dispersion, that contains Ethylhexyl Methoxycrylene to maintain the integrity of the UV filter and boost critical wavelength. SunBoost ATB™, which contains a proprietary ratio of anti-oxidants, anti-irritant and anti-inflammatory agents, helps boost SPF and PFA. To give water resistant properties DAITOSOL 5000AD, a transparent type of film former, is used in this sunscreen. Kobo's spherical silica Microsphere, MSS-500W, gives slip during application and reduces shine on the skin.</p>						
	<p>Notes</p> <table> <tr> <td>Active Ingredient(s)</td> <td></td> </tr> <tr> <td> Titanium Dioxide</td> <td>3.54%</td> </tr> <tr> <td> Zinc Oxide</td> <td>7.15%</td> </tr> </table> <p>SPF testing: in vivo on 3 subjects</p>	Active Ingredient(s)		Titanium Dioxide	3.54%	Zinc Oxide	7.15%
Active Ingredient(s)							
Titanium Dioxide	3.54%						
Zinc Oxide	7.15%						

Kobo Products, Inc.

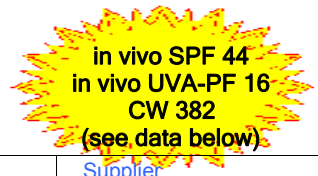
3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
 tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com



www.koboproducts.com

O/W Sunscreen with TNSS75MZCM (no additional boosters)

Formula KSL-271A



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	53.70	Deionized Water	Water	
2	1.00	Liposorb® L-20	Polysorbate 20	Vantage
	0.20	Methyl Paraben NF	Methylparaben	International Sourcing
3	4.00	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
	0.20	KELTROL® CG	Xanthan Gum	CP Kelco
4	23.15	Dermol 25B	C12-15 Alkyl Benzoate	Alzo International Inc.
	9.80	TNSS75MZCM	Zinc Oxide (And) Ethylhexyl Methoxycrylene (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Hydrogen Dimethicone	Kobo Products
	2.45	Lipopeg® 100-S	PEG-100 Stearate	Vantage
	1.00	Lipo® GMS 450	Glyceryl Stearate	Vantage
	0.40	Shea Butter	Shea Butter	Cognis Corp.
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
5	3.00	MSS-500W	Silica	Kobo Products
	1.00	Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	ChemUnion/SEPPIC

100

Manufacturing Procedure

1. Combine Parts 1 and 2 and heat to 70°C.
2. Combine Part 3 ingredients into a slurry and add to Parts 1 and 2 while mixing.
3. Combine Part 4 and heat to 70°C.
4. Combine Parts 1 and 2 with Part 3 under homogenization.
5. Slowly add Part 4 to Part 1, 2 & 3 until homogenous.
6. Cool Batch to 35°C then add Part 5 until homogenous.

Description

This O/W Sunscreen features TNSS75MZCM, Kobo's Non-Nano Zinc Oxide dispersion, that contains Ethylhexyl Methoxycrylene to effectively increase SPF, UVA-PF and provide broad spectrum protection. Kobo's spherical silica Microsphere, MSS-500W, gives slip during application and reduces shine on the skin.

Notes

Active Ingredient(s)	7.15%
Zinc Oxide	
SPF testing: in vivo on 3 subjects	

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

KOBO

www.koboproducts.com

Kids' Sunscreen

Formula KSL-303-BR

**in vivo SPF 54
in vivo UVA-PF 18
CW 378
(see data below)**

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	32.40	Deionized Water	Water	
	3.00	CES-1104	Dimethicone (And) Water (Aqua) (And) Glycerin (And) Pentylene Glycol (And) Dimethicone/Vinyl Dimethicone Crosspolymer (And) Amodimethicone (And) Carbomer (And) Phenoxyethanol (And) Sodium Hydroxide (And) Disodium Edta	Nusil/Kobo Products
	2.00	Glicerina	Glycerin	CAAL
2	19.00	EMP50TEL	Titanium Dioxide (And) Ethyl Macadamiate (And) Silica (And) Alumina (And) Stearic Acid (And) Polyhydroxystearic Acid	Kobo Products
	18.00	JOP80MZCJ	Zinc Oxide (And) Simmondsia Chinensis (Jojoba) Seed Oil (And) Polyhydroxystearic Acid (And) Jojoba Esters	Kobo Products
	11.00	SALACOS® 913	Isotridecyl Isononanoate	Ikeda/Kobo Products
	4.00	SALACOS® 99	Isononyl Isononanoate	Ikeda/Kobo Products
	3.60	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	3.00	ABIL® EM 180	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
	2.00	MST-547	Polymethylsilsesquioxane	Kobo Products
	1.00	Optiphen	Caprylyl Glycol (And) Phenoxyethanol	Ashland
	1.00	Liposorb® L-20	Polysorbate 20	Vantage

100

Manufacturing Procedure

1. Combine Part 1.
2. Mix Part 2 until the UV filters are completely dispersed.
3. Add Part 1 to Part 2 slowly while mixing at 1500rpm.
4. Mix for 10 minutes.

Description

This Sunscreen was specially formulated for kids' skin because it features only non-nano inorganic Sunscreen Dispersions EMP50TEL (Titanium Dioxide) and JOP80MZCJ (Zinc Oxide) to achieve balanced SPF and UVA protection. It also has SunBoost ATB™, a proprietary mixture of antioxidants, anti-irritant and anti-inflammatory agents that can increase UVA and UVB protection over 30%. SALACOS® 99 and SALACOS® 913 are light esters that improve spreadability and skin feel. MST-547 is a non-absorbent silicone sphere and CES-1104 is an encapsulated elastomer. Both of them help with spreadability, skin feel and reduction of tackiness.

Notes

Active Ingredient(s)	
Titanium Dioxide	8.70%
Zinc Oxide	14.00%

SPF testing: in vivo on 3 subjects

Kobo Products, Inc.

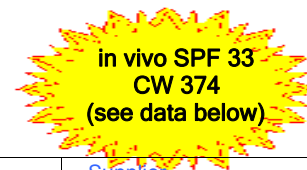
3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

KOBO

www.koboproducts.com

Sunscreen Gel with ZnO and SunBoost ATB™

Formula KSL-312



Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	25.50	TNP50ZSI	C12-15 Alkyl Benzoate (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
	17.10	TNP65FZS	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Kobo Products
	5.00	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	3.00	SS4267	Dimethicone (And) Trimethylsiloxysilicate	Momentive
2	33.20	Deionized Water	Water	
	5.00	Nikkomulse LH	Glycerin (And) Hydrogenated Lecithin (And) Hydroxypropyl Methylcellulose Searoxy Ether (And) Squalane (And) Sodium Methyl Stearoyl Taurate	Nikko Chemicals
	0.10	Disodium EDTA	Disodium EDTA	Dow Chemical
3	1.00	Glycerin U.S.P. Natural 96%	Glycerin	Ruger Chemical
	0.10	Keltrol® CG	Xanthan Gum	CP Kelco
4	2.00	SACRAN-05BG	Aphanothece Sacrum Polysaccharide (And) Butylene Glycol (And) Water	Daito/Kobo Products
5	1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
6	5.00	Ethyl Alcohol E1028	Ethyl Alcohol	VWR Scientific Products
7	2.00	MSS-500W	Silica	Kobo Products
100				

<p>Manufacturing Procedure</p> <ol style="list-style-type: none"> Heat Part 1 to 80°C. Make a slurry of Part 3 and add to Part 2 while mixing. Heat Part 2 and 3 to 80°C. Add Part 1 to Parts 2 and 3 while homogenizing. Add Parts 4 and 5 after cooling. Continue to homogenize. Add Parts 5, 6, and 7 while homogenizing. 	<p>Description</p> <p>This gel sunscreen uses a combination of Kobo's Zinc Oxide dispersions, TNP65FZS and TNP50ZSI, to provide maximum protection against ultraviolet light. It also includes SunBoost ATB™, which is a proprietary blend of antioxidant, anti-irritant and anti-inflammatory agents that can boost SPF and UVA protection. SACRAN-05BG is a water soluble polysaccharide that has water-retaining properties as well as regenerating and moisturizing properties. MSS-500W is a silica microsphere responsible for enhanced feel.</p>
	<p>Notes</p> <p>Active Ingredient(s) Zinc Oxide 22.70%</p> <p>SPF testing: in vivo on 3 subjects</p>

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com



www.koboproducts.com

Cushioned Liquid Foundation

Formula KLF-105A

in vivo SPF 23
CW 387
(see data below)

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	45.88	CSF-3100@20cSt	Dimethicone	NuSil/Kobo Products
	18.00	TNP50T7-ATB	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Argania Spinosa Kernel Oil (And) Alumina (And) Methicone (And) Tocopheryl Acetate (And) Polyhydroxystearic Acid (And) Bisabolol	Kobo Products
	11.85	FAS65UTB	Titanium Dioxide (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone (And) Disteardimonium Hectorite (And) Tocopheryl Acetate	Kobo Products
	3.50	CPF-3300@20cSt	Phenyl Trimethicone	NuSil/Kobo Products
	1.80	FAS50YTB	Iron Oxides (C.I. 77492) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone (And) Disteardimonium Hectorite (And) Tocopheryl Acetate	Kobo Products
	0.30	FAS65RTB	Iron Oxides (C.I. 77491) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone (And) Disteardimonium Hectorite (And) Tocopheryl Acetate	Kobo Products
	0.17	FAS70BTB	Iron Oxides (C.I. 77499) (And) Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone (And) Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone (And) Disteardimonium Hectorite (And) Tocopheryl Acetate	Kobo Products
	0.10	Propyl Paraben NF	Propylparaben	International Sourcing
2	12.00	Deionized Water	Water	
	2.00	Butylene Glycol	Butylene Glycol	Ruger Chemical
	0.65	Sodium Chloride	Sodium Chloride	Morton Salt
	0.40	Liposorb® L-20	Polysorbate 20	Vantage
	0.15	Methyl Paraben NF	Methylparaben	International Sourcing
	0.10	Trisodium EDTA	Trisodium EDTA	Protameen
	0.10	Allantoin	Allantoin	RITA Corp.
3	3.00	MSS-500W	Silica	Kobo Products

100

Manufacturing Procedure

- In main beaker add Part 1 and homogenize all ingredients until fully dispersed and color has developed.
- In side beaker, add Part 2 and mix ingredients until homogenous.
- Add Part 2 to Part 1 under Silverson.
- Add Part 3 to combined Parts 1 and 2.

Description

This liquid foundation features Kobo's Titanium Dioxide Dispersion TNP50T7-ATB, an optimized mixture of a TiO2 sunscreen dispersion with Kobo's SunBoost ATB™, that is a proprietary blend of antioxidants, anti-irritant and anti-inflammatory agents. Kobo's FAS/TTB Pigmentary Dispersions aid in providing good color development. The FAS dispersions showcase the versatility of TTB treated pigments in the dispersions which perform well here in a silicone phase. MSS-500W gives excellent application and soft focus. Silicones, CPF-3300@20cSt and CSF-3100@20cSt, both increase the spreadability and provide improved feel.

Notes

Active Ingredient(s)
Titanium Dioxide 6.84%

SPF testing: in vivo on 3 subjects

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

KOBO

www.koboproducts.com

Anti-Pollution Foundation

Formula KLF-170-BR

in vivo SPF 32
in vivo UVA-PF 10
CW 378
(see data below)

Kobo Products - formulations

Part	Percent	Ingredients	INCI Name	Supplier
1	34.20	Deionized Water	Water	
	2.00	Glicerina	Glycerin	CAAL
	0.80	Cloreto de Sódio	Sodium Chloride	CAAL
	0.50	CosmeHerbest™ SEABERRY	Water (And) Propanediol (And) Hippophae Rhamnoides Fruit Extract	Ikeda/Kobo Products
2	17.00	INH73MZ	Zinc Oxide (And) Isononyl Isononanoate (And) Polyglyceryl-6 Polyricinoleate (And) Isopropyl Titanium Triisostearate	Kobo Products
	9.00	INP60T7	Titanium Dioxide (And) Isononyl Isononanoate (And) Alumina (And) Methicone (And) Polyhydroxystearic Acid	Kobo Products
	8.00	CSV-3000	Cyclopentasiloxane	NuSil/Kobo Products
	5.00	SALACOS® 99	Isononyl Isononanoate	Ikeda/Kobo Products
	4.40	BTD-ASG2	Titanium Dioxide (And) Stearoyl Glutamic Acid	Kobo Products
	4.00	Bentone Gel® VS 5 PCV	Cyclopentasiloxane (And) Disteardimonium Hectorite (And) Propylene Carbonate	Cosmotec
	3.00	CSS-7302	PEG-10 Dimethicone	NuSil/Kobo Products
	1.50	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
	1.13	BYO-ASG3	Iron Oxides (C.I. 77492) (And) Stearoyl Glutamic Acid	Kobo Products
	1.00	Optiphen	Caprylyl Glycol (And) Phenoxyethanol	Ashland
	1.00	Liposorb® O	Sorbitan Oleate	Vantage Chemicals
	0.30	BRO-ASG3	Iron Oxides (C.I. 77491) (And) Stearoyl Glutamic Acid	Kobo Products
	0.17	BBO-ASG3	Iron Oxides (C.I. 77499) (And) Stearoyl Glutamic Acid	Kobo Products
3	5.00	Composite ACT-50	Titanium Dioxide (And) Acrylates Copolymer (And) Hydrated Silica (And) Algin (And) Aluminum Hydroxide	Kobo Products
	2.00	BPD-500W	HDI/Trimethylol Hexyllactone Crosspolymer (And) Silica	Kobo Products

100

Manufacturing Procedure

1. Combine Part 1.
2. Mix Part 2 at 800 rpm until complete dispersion of the pigments.
3. Add Part 1 to Part 2 while mixing.
4. Add Part 3 and mix at 600 rpm.

Description

This foundation was developed to protect the skin from pollution and features CosmeHerbest™ SEABERRY, an extract that reduces skin irritation and has a moisturizing and anti-inflammatory effect. It also has SPF provided by the Zinc and Titanium dispersions: INH73MZ and INP60T7, and Composite ACT-50, a micron size Acrylates Copolymer matrix with TiO2 entrapped. To give an antioxidant effect, this foundation features SunBoost ATB™, a proprietary mixture of antioxidant, anti-irritant and anti-inflammatory agents. CSS-7302 is a W/Si emulsifier that gives a stable emulsion with light skin feel. ASG treated pigments are coated with an amino acid with a very creamy feel. BPD-500W is a microsphere that gives soft focus and enhanced feel. SALACOS® 99 is a light ester that increases spreadability.

Notes

Active Ingredient(s)	
Titanium Dioxide	4.30%
Zinc Oxide	12.07%

SPF testing: in vivo on 3 subjects

Kobo Products, Inc.

3474 South Clinton Avenue, South Plainfield, NJ 07080 - USA
 tel: +1 - 908-757-0033 fax: +1 - 908-757-0905 info@koboproductsinc.com

KOBO

www.koboproducts.com

Index of Kobo Raw Materials

Dispersions/Non-Nano TiO₂

KSL-250A	Page 4	EMP50TEL
KSL-251	Page 5	EMP50TEL
KSL-271	Page 6	HBP45TEL
KSL-303-BR	Page 8	EMP50TEL

Dispersions/Non-Nano ZnO

KSL-250A	Page 4	JOP80MZCJ
KSL-251	Page 5	JOP80MZCJ
KSL-271	Page 6	TNSS75MZCM
KSL-271A	Page 7	TNSS75MZCM
KSL-303-BR	Page 8	JOP80MZCJ

Dispersions/TiO₂

KSL-086	Page 1	TNP40VTTS
KSL-171C	Page 2	HBTN55TIS
KSL-177C-CH	Page 3	TNP50T7
KLF-105A	Page 10	TNP50T7-ATB
KLF-170-BR	Page 11	INP60T7

Dispersions/ZnO

KSL-171C	Page 2	HBTN65HP1
KSL-177C-CH	Page 3	TNP65FZS
KSL-312	Page 9	TNP50ZSI
		TNP65FZS
KLF-170-BR	Page 11	INH73MZ

SPF Booster

KSL-171C	Page 2	SunBoost ATB™
KSL-177C-CH	Page 3	SunBoost ATB™
KSL-250A	Page 4	SunBoost ATB™ Natural
KSL-251	Page 5	SunBoost ATB™ Natural
KSL-271	Page 6	SunBoost ATB™
KSL-303-BR	Page 8	SunBoost ATB™
KSL-312	Page 9	SunBoost ATB™
KLF-170-BR	Page 11	SunBoost ATB™

UV Pigment Complex

KFL-170-BR	Page 11	Composite ACT-50
------------	---------	------------------

Formulations

Product formulations are included as illustrative examples only. Kobo Products Inc. makes no representation or warranty concerning the efficacy or safety of any product manufactured using such formulations. All statements concerning the possible use of Kobo Products Inc. are for research purposes only. Responsibility for the performance or adequate testing of any product prior to sale or use of any such product lies with the manufacturer thereof.

Use of Products

Products sold by Kobo are designed, manufactured and sold for industrial use only. Prior to use of any such product for any application other than an industrial use, the user has the sole responsibility and obligation to determine the suitability of any such product for any such application.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Limitation of Liability

Kobo Products Inc. shall in no event, whether the claim is based on warranty, contract, tort, strict liability, negligence or otherwise, be liable for incidental or consequential damages, or for any other damages in excess of the amount of the purchase price.

The Powder & Dispersion Specialist

KOBO

www.koboproducts.com

Kobo Products, Inc.
3474 South Clinton Avenue
South Plainfield, NJ 07080- USA
tel: +1 908-757-0033
fax: +1 908-757-0905

Kobo Products, SAS
135 Rue Buissonniere
Quartier Bouysset
31670 LABEGE
France
tel: +33 (0)5-62-88-77-40
fax: +33 (0)5-62-88-77-49

Kobo Dispatek, Inc.
1 - 4 - 8
Nihombashi-bakurocho
Chuoku, Tokyo, 103-0002
Japan
tel: +81 (3) 3663-8049
fax: +81 (3) 3664-8679

Kobo Brasil Ltda
Rua Bamboré n.41
Ipiranga - São Paulo/SP
04278-060
Brasil
tel: +55 (11) 5062-0634