

FORMULARY

Supplier's Day Perú 2018

KOBO

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KSL-177C-CH

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



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
61.20	Deionized Water	Water	
1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
Part 2			
4.00	Glycerin U.S.P. Natural 96%	Glycerin	Cognis Corp.
0.20	Keltrol® CG	Xanthan Gum	CP Kelco
Part 3			
15.00	TNP50T7	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Alumina (And) Polyhydroxystearic Acid (And) Hydrogen Dimethicone	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.
Part 4			
3.00	MSS-500W	Silica	Kobo Products
1.00	Sepigel™ 305	Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7	SEPPIC
100.00			

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 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.

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.

Active Ingredient(s):

Titanium Dioxide	5.78%
Zinc Oxide	3.74%

Testing:

SPF: in vivo on 3 subjects
 UVA-PF: in vivo on 3 subjects





KSL-269B

Balanced W/O Sunscreen Milk



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
35.00	CM3K50XZ4	Zinc Oxide (And) Cyclopentasiloxane (And) PEG-10 Dimethicone (And) Methicone	Kobo Products
30.00	CM3K40T4	Cyclopentasiloxane (And) Titanium Dioxide (And) PEG-10 Dimethicone (And) Alumina (And) Hydrogen Dimethicone	Kobo Products
11.50	Permethyl® 99A	Isododecane	Presperse
3.00	BPD-500W	HDI/Trimethylol Hexyllactone Crosspolymer (And) Silica	Kobo Products
2.00	KSP-102	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer	Shin-Etsu
1.00	Lipo Polyglycol® 400	PEG-8	Vantage
0.50	Wickenol 155	Ethylhexyl Palmitate	Alzo International Inc.
Part 2			
1.50	SR1000	Trimethylsiloxysilicate	Momentive
1.50	Permethyl® 99A	Isododecane	Presperse
Part 3			
7.75	Deionized Water	Water	
5.00	Glycerin U.S.P. Natural 96%	Glycerin	Ruger Chemical
1.00	Germaben® II	Propylene Glycol (And) Diazolidinyl Urea (And) Methylparaben (And) Propylparaben	ISP
0.20	Sodium Citrate	Sodium Citrate	DSM Nutritional Products
0.05	EDTA-3Na	Trisodium EDTA	DSM Nutritional Products
100.00			

Description:

A very thin 'milk' type sunscreen with high SPF and UVA that glides effortlessly onto the skin. CM3K40T4 is a low-whitening TiO2 dispersion that allows the formula to attain a high SPF. ZnO dispersion, CM3K50XZ4, improves UVA to yield a UV Balanced formula with minimal whitening. Kobo's microsphere, BPD-500W, gives soft focus and enhanced feel.

Manufacturing Procedure:

1. Dissolve and disperse each Part uniformly.
2. Combine Part 2 with propeller mixing for 1 hour until homogeneous.
3. While mixing Part 1 with homogenizer at 2500rpm, add Part 2 to Part 1 gradually.
4. Combine Part 3 until homogeneous.
5. Slowly add Part 3 to Parts 1 and 2 at 4000rpm for 5 minutes with homogenizer.

Active Ingredient(s):

Titanium Dioxide 8.70%
Zinc Oxide 16.10%

Testing:

SPF: in vivo on 3 subjects
UVA-PF: in vivo on 3 subjects
CW: FDA method



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KSL-279D

O/W Moisturizing Gel Sunscreen with CES-1104



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
55.65	Deionized Water	Water	
Part 2			
0.40	Di-Sodium Tetraborate Decahydrate	Sodium Borate	EMD Chemicals Inc.
0.40	Polysorbate 20	Polysorbate 20	RITA
0.20	Gs-GT	Water (And) Camellia Sinensis Leaf Extract (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Parabens (And) Hydrogenated Lecithin	Kobo Products
0.20	Gs-PPY	Water (And) Papain (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Hydrogenated Lecithin (And) Parabens	Kobo Products
0.20	Gs-VA100C	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	Kobo Products
0.20	Gs-VE	Water (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Tocopherol (And) Parabens (And) Hydrogenated Lecithin	Kobo Products
0.15	DiSodium EDT A	DiSodium EDT A	Dow Chemical
Part 3			
3.00	Butylene Glycol	Butylene Glycol	Ruger Chemical
2.40	Glycerin U.S.P. Natural 96%	Glycerin	Ruger Chemical
0.20	KELTROL® CG	Xanthan Gum	CP Kelco
Part 4			
2.00	Simulgel™ EG	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (And) Isohexadecane (And) Polysorbate 80	Seppic
Part 5			
4.00	ETHANOL 24,511-9	Ethyl Alcohol	Aldrich Chemical Co.
Part 6			
7.50	Jeescreen OMC	Ethylhexyl Methoxycinnamate	Jeen International
7.50	TNSS75MZCM	Zinc Oxide (And) Ethylhexyl Methoxycrylene (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Hydrogen Dimethicone	Kobo Products
3.00	SQUALANE NF	Squalane	Barnet Products
3.00	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
3.00	Xiameter® PMX-200 SILICONE FLUID 20CS	Dimethicone	Dow Corning
1.00	SP-10	Nylon-12	Toray/Kobo Products
0.50	Jeechem SMO	Sorbitan Oleate	Jeen International
0.50	Phenoxyethanol	Phenoxyethanol	Clariant
Part 7			
5.00	CES-1104	Dimethicone (And) Water (And) Glycerin (And) Pentylene Glycol (And) Dimethicone/Vinyl Dimethicone Crosspolymer (And) Amodimethicone (And) Carbomer (And) Phenoxyethanol (And) Sodium Hydroxide (And) Disodium Edta	Avantor/Kobo Products
100.00			

Description:

This O/W Moisturizing Gel Sunscreen features 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. SP-10 creates a natural blurring effect that minimizes the look of lines and wrinkles and illuminates the skin. Glycosphere, Gs, are delivery systems that are able to promote skin whitening, cell turnover and acne control. Nusil's CES-1104 is an encapsulated elastomer gel that can be added to the water phase or post emulsification. Upon application the encapsulated CES materials break and offer an initial refreshing feel that is followed by a velvety silicone after feel.

Manufacturing Procedure:

1. Propeller mix Part 1 at high sheer mixing until vortex is observed.
2. Part 2; Add Sodium Borate and Disodium EDTA until dissolved then add remaining ingredients.
3. Combine Part 3 to create slurry and slowly add to water phase until homogenous.
4. Add Part 4 to water phase until gel suspension is thickened.
5. Add Part 5 to water phase until suspension is homogenous.
6. Combine all Part 6 and propeller mix until homogenous.
7. Slowly add oil phase to water phase by high sheer mixing until homogenous.
8. Homogenize emulsion for 5 min at 5000rpm, while adding part 7.

Active Ingredient(s):

Zinc Oxide	5.48%
Ethylhexyl Methoxycinnamate	7.50%

Testing:

SPF: in vivo on 3 subjects
CW: FDA method



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KSL-280A

Balanced W/O Milky Sunscreen with TNP50T7-ATB



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
33.00	KF-995	Cyclopentasiloxane	Shin-Etsu
18.03	TNP50T7-ATB	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Argania Spinosa Kernel Oil (And) Alumina (And) Hydrogen Dimethicone (And) Tocopheryl Acetate (And) Polyhydroxystearic Acid (And) Bisabolol	Kobo Products
3.60	KF-6040	Cyclopentasiloxane (And) PEG/PPG-18/18 Dimethicone	Shin-Etsu
2.00	Abil® EM 90	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
2.00	ELEMENT14 PDMS 20	Dimethicone	Momentive
0.75	SF1528	Cyclopentasiloxane (And) PEG/PPG-20/15 Dimethicone	Momentive
0.70	CXG-1101	Cyclopentasiloxane (And) Dimethicone/Vinyl Dimethicone Crosspolymer	Avantor/Kobo Products
Part 2			
31.52	Deionized Water	Water	
2.80	Butylene Glycol	Butylene Glycol	Ruger Chemical
1.50	Glycerin U.S.P. Natural 96%	Glycerin	Ruger Chemical
0.75	Sodium Chloride	Sodium Chloride	Morton Salt
0.60	Magnesium Sulphate	Magnesium Sulfate	Mallinckrodt
0.30	Liposorb® L-20	Polysorbate 20	Vantage
0.15	Phenoxyethanol	Phenoxyethanol	Clariant
0.10	Trisodium EDTA	Trisodium EDTA	Protameen
0.10	Methyl Paraben NF	Methylparaben	International Sourcing
0.10	ALLANTOIN	Allantoin	ISP
Part 3			
2.00	MSS-500W	Silica	Kobo Products
100.00			

Description:

This sunscreen 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. CXG-1101 imparts a creamy, gel texture to the product, and MSS-500W gives a creamy slip during application.

Manufacturing Procedure:

1. Combine all Part 1 ingredients and homogenize until fully dispersed.
2. Combine all Part 2 ingredients and homogenize until fully dispersed.
3. Slowly add Part 2 to Part 1 while homogenizing until homogeneous.
4. Slowly add Part 3 while homogenizing until fully dispersed.

Note: This procedure is cold process.

Active Ingredient(s):

Titanium Dioxide 6.85%

Testing:

SPF: in vivo on 3 subjects
 UVA-PF: in vivo on 3 subjects
 CW: FDA method



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KSL-310A-BR Dry Touch Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
27.00	Deionized Water	Water	
2.00	Glicerina	Glycerin	CAAL
1.00	Cloreto de Sódio	Sodium Chloride	CAAL
Part 2			
18.10	TNSS75MZCM	Zinc Oxide (And) Ethylhexyl Methoxycrylene (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Hydrogen Dimethicone	Kobo Products
13.50	INP60T7	Titanium Dioxide (And) Isononyl Isononanoate (And) Alumina (And) Hydrogen Dimethicone (And) Polyhydroxystearic Acid	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	SALACOS® 913	Isotridecyl Isononanoate	Ikeda/Kobo Products
2.50	ABIL® EM 90	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
2.00	BENTONE GEL® VS 5 PCV	Cyclopentasiloxane, Distearidimonium Hectorite, Propylene Carbonate	Cosmotec
1.00	Optiphen	Caprylyl Glycol (And) Phenoxyethanol	Ashland
0.80	COSMOL™ 182V	Sorbitan Sesquiossearate	Ikeda/Kobo Products
0.50	ABIL® EM 180	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
Part 3			
12.00	Xiameter PMX-0245	Cyclopentasiloxane	Dow Corning
2.00	MSS-500/3H	Silica	Kobo Products
Part 4			
5.00	COMPOSITE ACT-50	Titanium Dioxide (And) Acrylates Copolymer (And) Hydrated Silica (And) Algin (And) Aluminum Hydroxide	Kobo Products
2.00	SEQ-ML5	Polymethylsilsesquioxane	Kobo Products
100.00			

Description:

This sunscreen has a light texture and a dry feel. It features a combination of Kobo's ingredients to achieve high and balanced UV protection: INP60T7 (Titanium Dioxide dispersion with light ester and minimal whitening), TNSS75MZCM (Non-nano Zinc Oxide dispersion in ethylhexyl methoxycrylene, a photo stabilizer), Composite ACT-50 (a powder containing dispersed attenuation grade TiO2 entrapped within a micron size polymer matrix) and SunBoost ATB™ (a proprietary ratio of anti-oxidant, anti-irritant and anti-inflammatory agents that provides a high SPF). COSMOL™ 182V improves formula stability and contributes to pigment dispersion. It also has SALACOS® 99 and SALACOS® 913, light esters that can improve skin feel. To absorb oil and also give a smooth feel on skin, this sunscreen has SEQ-ML5 and MSS-500/3H.

Manufacturing Procedure:

1. Combine Part 2 and mix at 800 rpm until complete dispersion of the sunscreens.
2. Combine Part 1 and add to Part 2 slowly while mixing at 800 rpm.
3. Combine Part 3 and add to Parts 1 and 2.
4. Add Part 4 and mix at 600 rpm.

Active Ingredient(s):

Titanium Dioxide	9.00%
Zinc Oxide	13.00%

Testing:

SPF: in vivo on 3 subjects
UVA-PF: in vitro method





KSL-315A-BR Minimal Whitening Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
45.30	Deionized Water	Water	
1.00	Liposorb® L-20	Polysorbate 20	Vantage
Part 2			
3.00	Glicerina	Glycerin	Mapric
0.20	Goma Xantana	Xanthan Gum	M. Cassab
Part 3			
11.00	INP70ZSI	Zinc Oxide (And) Isononyl Isononanoate (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
10.00	SALACOS® 99	Isononyl Isononanoate	Ikeda/Kobo Products
10.00	TNSS75MZCM	Zinc Oxide (And) Ethylhexyl Methoxycrylene (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Hydrogen Dimethicone	Kobo Products
4.00	Xiameter® PMX- 0245	Cyclopentasiloxane	Dow Corning
4.00	TEGO® Care PBS 6	Polyglyceryl-6 Stearate (And) Polyglyceryl-6 Behenate	Evonik
0.50	TEGIN® M Pellets	Glyceryl Stearate	Evonik
0.50	ALKONAT C1618	Cetearyl Alcohol	M.Cassab
Part 4			
5.00	COMPOSITE ACZ-50	Zinc Oxide (And) Acrylates Copolymer (And) Kaolin (And) Sodium Polyacrylate	Kobo Products
2.00	MSS-500/H	Silica	Kobo Products
1.50	KOBOGUARD® 50AMP	Acrylates/Ethylhexyl Acrylate Copolymer (And) Water (And) Aminomethyl Propanol	Kobo Products
1.00	Optiphen	Caprylyl Glycol (And) Phenoxyethanol	Ashland Chemical
1.00	Simulgel™ INS 100	Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (And) Isohexadecane (And) Polysorbate 60	seppic
100.00			

Description:

This light sunscreen offers a minimal whitening effect by using a combination of different Zinc Oxide particle sizes: TNSS75MZCM, a non-nano Zinc Oxide dispersion in Ethylhexyl Methoxycrylene (photo stabilizer carrier that boosts UVA and UVB), INP70ZSI, a small particle Zinc that helps with UVB, and COMPOSITE ACZ-50, a composite powder containing Zinc Oxide which is dispersed then entrapped within a micron sized Acrylates Copolymer matrix, which gives UVB and soft feel. This formula also has SALACOS® 99, a light ester that improves spreadability and KOBOGUARD® 50AMP, a water-soluble film former for water resistance. MSS-500/H helps reduce shine and tackiness.

Manufacturing Procedure:

1. Mix Part 2 and add to Part 1. Mix until a gel is formed. Heat to 75°C.
2. Combine Part 3 ingredients and heat to 80°C.
3. Add Part 3 to Parts 1 and 2 while mixing. Keep mixing until dispersion of the filters.
4. Mix using homogenizer for a least 5 minutes.
5. Cool to 45°C and add Part 4.

Active Ingredient(s):

Zinc Oxide 17.20%

Testing:

SPF: in vivo on 3 subjects
UVA-PF: in vivo on 3 subjects





KSL-331C Soft Touch Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
8.10	Deionized Water	Water	
2.00	Butylene Glycol	Butylene Glycol	Ruger Chemical
0.50	Gs-GT	Water (And) Camellia Sinensis Leaf Extract (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Parabens (And) Hydrogenated Lecithin	Kobo Products
0.50	PHENOXYETOL	Phenoxyethanol	Clariant
0.50	Gs-VE	Water (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Phenoxyethanol (And) Tocopherol (And) Parabens (And) Hydrogenated Lecithin	Kobo Products
0.25	Sodium Chloride	Sodium Chloride	Morton Salt
0.15	ALLANTOIN	Allantoin	ISP
Part 2			
33.00	CM3K40T4	Cyclopentasiloxane (And) Titanium Dioxide (And) PEG-10 Dimethicone (And) Alumina (And) Hydrogen Dimethicone	Kobo Products
22.00	CM3K65FZS	Zinc Oxide (And) Cyclopentasiloxane (And) PEG-10 Dimethicone (And) Triethoxycaprylylsilane	Kobo Products
15.50	KF-995	Cyclopentasiloxane	Shin-Etsu
5.00	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
3.00	Xiameter Silicone Fluid 50 cs	Dimethicone	Dow Corning
3.00	SALACOS® 99	Isononyl Isononanoate	Ikeda Corporation
1.00	KF-6104	Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone	Shin-Etsu
0.50	Bentone® Luxe WS	Cyclopentasiloxane (and) PEG-10 Dimethicone (and) Distearidimonium Hectorite	Elementis Specialties
Part 3			
5.00	EA-209	Ethylene/Acrylic Acid Copolymer	Kobo Products
100.00			

Description:

This light feeling shaker ball sunscreen features TiO2 dispersion CM3K40T4 and ZnO dispersion CM3K65FZS to give SPF protection. SunBoost ATB™, which contains a proprietary ratio of anti-oxidant, anti-irritant and anti-inflammatory agents, helps boost SPF. Glycospheres Gs-VE (Tocopherol) and Gs-GT (Green Tea Polyphenols) add skin care benefits to the formula. Microsphere EA-209 helps give the formula a dry slip after feel as well as soft focus effect.

Manufacturing Procedure:

1. In side beaker, add Part 1 and mix until uniform.
2. In main beaker, add Part 2 and homogenize.
3. Add Part 1 to Part 2 and mix under homogenizer.
4. Slowly add Part 3 under homogenizer.

Active Ingredient(s):

Titanium Dioxide	10.61%
Zinc Oxide	13.73%

Testing:

SPF: in vivo on 3 subjects
CW: FDA method





KSL-336 Sunscreen Stick for Babies



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
27.00	GCO50XZJ	Zinc Oxide (And) Caprylic/Capric Triglyceride (And) Sorbitan Olivatate (And) Jojoba Esters	Kobo Products
18.00	GCP55TJ	Titanium Dioxide (And) Caprylic/Capric Triglyceride (And) Jojoba Esters (And) Polyhydroxystearic Acid	Kobo Products
10.00	JOS10M5	Simmondsia Chinensis (Jojoba) Seed Oil (And) Silica	Kobo Products
7.00	Ozokerite Wax White SP 1020P	Ozokerite	Strahl & Pitsch
5.20	ZNO-C-NJE3	Zinc Oxide (And) Jojoba Esters	Kobo Products
5.00	Cocoa Butter USP DEODORIZED	Cocoa Butter	Jeen International
5.00	CANDELILLA WAX MK-2	Euphorbia Cerifera (Candelilla) Wax	Strahl & Pitsch
4.80	JOJOBA OIL	Simmondsia Chinensis (Jojoba) Seed Oil	Vantage
4.50	MINERAL OIL CARNATION	Mineral Oil	Ruger Chemical
4.00	LexFeel® 7	Neopentyl Glycol Diheptanoate	Inolex
3.00	MANGO BUTTER	Mangifera Indica (Mango) Seed Butter	RITA
3.00	CELLULOBEADS D-10	Cellulose	Daito/Kobo Products
2.00	Shea Butter	Shea Butter	Cognis Corp
1.50	Lipocol® C	Cetyl Alcohol	Vantage
100.00			

Description:

This sunscreen stick for babies features JOS10M5, fumed silica gellant in Jojoba Oil, to help give structure to the stick. Natural materials, Titanium Dioxide dispersion GCP55TJ, Zinc Oxide dispersion GCO50XZJ and Zinc Oxide powder ZnO-C-NJE3, help give SPF to the formula. Natural microsphere, CELLULOBEADS D-10 is a hydrophilic sphere that can help retain water and give cushion to the formula.

Manufacturing Procedure:

1. In main beaker, add Part 1, heat to 80°C and mix until homogeneous.
2. Pour into components at 65-70°C.

Active Ingredient(s):

Titanium Dioxide	9.41%
Zinc Oxide	17.83%

Testing:

SPF: in vivo on 3 subjects
CW: FDA method





KSL-344-BR Sport Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
37.40	Deionized Water	Water	
3.00	Glycerin	Glycerin	CAAL
0.80	Liposorb® L-20	Polysorbate 20	Vantage
Part 2			
16.50	HBQP75FZS	Zinc Oxide (And) Butyloctyl Salicylate (And) Polyhydroxystearic Acid (And) Triethoxycaprylsilane	Kobo Products
13.00	TNP50T7-ATB	C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Argania Spinosa Kernel Oil (And) Alumina (And) Hydrogen Dimethicone (And) Tocopheryl Acetate (And) Polyhydroxystearic Acid (And) Bisabolol	Kobo Products
9.00	SALACOS® 99	Isononyl Isononanoate	Ikeda/Kobo Products
8.00	Xiameter PMX-0245	Cyclopentasiloxane	Dow Corning
3.00	ABIL® Care XL 80	Bis-PEG/PPG-20/5 PEG/PPG-20/5 Dimethicone (and) Methoxy PEG/PPG-25/4 Dimethicone (and) Caprylic/Capric Triglyceride	Evonik
1.50	KOBOGUARD® 5400 CCT	Hydrogenated Polycyclopentadiene (And) Caprylic/Capric Triglyceride	Kobo Products
Part 3			
0.80	Sepiplus™ 400	Polyacrylate-13 (And) Polyisobutene (And) Polysorbate 20	Seppic
Part 4			
3.00	KOBOGUARD® 50AMP	Acrylates/Ethylhexyl Acrylate Copolymer (And) Water (And) Aminomethyl Propanol	Kobo Products
1.00	Cosmoguard SL-CP	Phenoxyethanol (and) Ethylhexylglycerin	Cosmotec
Part 5			
3.00	MSS-500W	Silica	Kobo Products
100.00			

Description:

This sport sunscreen offers long wear and water resistance due to a combination of film formers: KOBOGUARD® 50AMP, a flexible water phase film former and KOBOGUARD® 5400 CCT, a polycyclopentadiene resin that is soluble in the oil phase. It also has a combination of ZnO and TiO2 dispersions with boosters, SunBoost ATB™ and Butyloctylsalicylate, that provide UVA and UVB protection using a low concentration of actives. SALACOS® 99 is a light ester that helps with spreadability. MSS-500W, a silica microsphere, helps reduce tackiness and give soft focus.

Manufacturing Procedure:

1. Combine Part 1
2. Mix Part 2 and add to Part 1 slowly while mixing.
3. Mix well until complete dispersion of the filters.
4. Add Parts 3, 4 and 5, mixing until completely homogeneous.

Active Ingredient(s):

Titanium Dioxide	5.00%
Zinc Oxide	11.80%

Testing:

SPF: in vivo on 3 subjects
 UVA-PF: in vitro method
 CW: FDA method





KSL-365

W/Si Volatile Non-D5 Smooth Sunscreen Milk



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
27.10	MTM3K50XZ4	Zinc Oxide (And) Methyl Trimethicone (And) PEG-10 Dimethicone (And) Methicone	Kobo Products
20.00	MTM3F40T7	Methyl Trimethicone (And) Titanium Dioxide (And) Alumina (And) Hydrogen Dimethicone (And) Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone	Kobo Products
7.50	Parsol® MCX	Ethylhexyl Methoxycinnamate	DSM
4.00	KF-6017	PEG-10 Dimethicone	Shin-Etsu
3.00	Xiameter® PMX-200 Silicone Fluid 5CS	Dimethicone	Dow Corning
3.00	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
3.00	SP-10	Nylon-12	Toray/Kobo Products
3.00	KSG-710	Dimethicone (and) Dimethicone/Polyglycerin-3 Crosspolymer	Shin-Etsu
3.00	Dermol 2014	Octyldodecyl Myristate	Alzo International Inc.
3.00	CXG-1104	Dimethicone (And) Dimethicone/Vinyl Dimethicone Crosspolymer	Avantor/Kobo Products
2.00	SR1000	Trimethylsiloxy silicate	Momentive
Part 2			
10.50	Deionized Water	Water	
5.00	Ethanol 24,511-9	Ethyl Alcohol	Aldrich Chemical Co.
5.00	Butylene Glycol	Butylene Glycol	Ruger Chemical
0.90	PHENOXETOL	Phenoxyethanol	Clariant
100.00			

Description:

This W/Si Volatile Non-D5 Smooth Sunscreen Milk features MTM3K50XZ4 and MTM3F40T7 that mimic the volatility of cyclic silicones. These Sunscreen dispersions provide minimal whitening and highly effective protection throughout the UV region. Kobo's SunBoost ATB™ is a booster to help increase the SPF/PFA values. CXG-1104 imparts a creamy, gel texture to the product, and SP-10 gives a creamy slip during application.

Manufacturing Procedure:

1. Combine Part 1 and homogenize until fully dispersed.
2. Combine Part 2 and mix until homogeneous.
3. Slowly add Part 2 into Part 1 while homogenizing.

Active Ingredient(s):

Zinc Oxide	13.00%
Titanium Dioxide	6.30%
Ethylhexyl Methoxycinnamate	7.50%

Testing:

SPF: in vivo on 3 subjects
CW: FDA method



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KLF-228A-BR Total Protection Foundation



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
29.20	Deionized Water	Water	
2.00	Glycerin	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
Part 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) Hydrogen Dimethicone (And) Polyhydroxystearic Acid	Kobo Products
8.00	Xiameter PMX-0245	Cyclopentasiloxane	Dow Corning
5.00	TiO2-IR300-11S2	Titanium Dioxide (And) Triethoxycaprylylsilane	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 PC V	Cyclopentasiloxane (And) Distearidimonium Hectorite (And) Propylene Carbonate	Elementis/Cosmotec
3.00	KF-6017	PEG-10 Dimethicone	Shin-Etsu
1.50	SunBoost ATB™	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
1.13	BYO-ASG3	Iron Oxides (CI 77492) (And) Stearoyl Glutamic Acid	Kobo Products
1.00	Optiphen	Caprylyl Glycol (And) Phenoxyethanol	Cosmotec
1.00	Liposorb® O	Sorbitan Oleate	Vantage
0.30	BRO-ASG3	Iron Oxides (CI 77491) (And) Stearoyl Glutamic Acid	Kobo Products
0.17	BBO-ASG3	Iron Oxides (CI 77499) (And) Stearoyl Glutamic Acid	Kobo Products
Part 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
100.00			

Description:

This foundation was developed to protect the skin from UVA, UVB and IR radiation, pollution and free radicals. The SPF/PFA is provided by Zinc and Titanium dispersions, INH73MZ and INP60T7, and COMPOSITE ACT-50, a micron size Acrylates Copolymer matrix with TiO2 entrapped. TiO2-IR300-11S2 is an acicular titanium dioxide that has the capacity to block IR radiation. CosmeHerbest™ SEABERRY, is an extract that reduces skin irritation and has a moisturizing effect. SunBoost ATB™, a proprietary ratio of anti-oxidants, anti-irritant and anti-inflammatory agents, helps boost SPF and PFA. 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.

Transmittance in the infrared IR-A was measured for formulation KLF-228-BR verses a control. KLF-228-BR contained the same ingredients as the control plus the addition of 5% TiO2 IR300-11S2, an IR-A blocker. The 5% addition of the IR-A blocker improved the attenuation in the IR-A range significantly as it had a much lower transmittance. Transmittance curves/data can be provided upon request.

Manufacturing Procedure:

1. Combine Part 1.
2. Mix Part 2 at 800 rpm until complete dispersion of the pigments and TiO2-IR300-11S2.
3. Add Part 1 to Part 2 while mixing.
4. Add Part 3 and mix at 400 rpm.

Active Ingredient(s):

Zinc Oxide	12.07%
Titanium Dioxide	9.20%

Testing:

SPF: in vivo on 3 subjects
 UVA-PF: in vitro method
 CW: FDA method



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