

FORMULARY

TEAMWORKS 2022

KOBO

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KSL-472-BR

W/O Creamy Zinc Oxide Only Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
29.70	Deionized Water	Water	
2.00	Glicerina Bi-Destilada U.S.P.	Glycerin	Sintética
0.80	Sulfato de Magnésio	Magnesium Sulphate	Sintética
Part 2			
15.00	ZNO-660-ASGP7	Zinc Oxide (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	Kobo Products
12.00	VegeLight 1214LC	Coconut Alkanes (and) Coco-Caprylate/Caprato	Grant Industries
10.00	ZNO-C-ASG3J	Zinc Oxide (And) Stearoyl Glutamic Acid	Kobo Products
8.00	COSMOL™ 525	Neopentyl Glycol Diethylhexanoate	Ikeda/Kobo Products
5.00	PolyAqual™ OS2	Polyglyceryl-2 Oleate (and) Polyhydroxystearic Acid (and) Polyglyceryl-2 Stearate	Innovacos
5.00	T.I.O.	Triethylhexanoin	Ikeda/Kobo Products
4.00	BENTONE GEL® GTCC V	Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Propylene Carbonate	Elementis/Cosmote c
2.00	COSMOL™ 182V	Sorbitan Sesquiossearate	Ikeda/Kobo Products
2.00	KOBOGUARD® 5400 NH	Hydrogenated Polycyclopentadiene (And) C13-15 Alkane	Kobo Products
1.00	Estearato de Magnésio	Magnesium Stearate	Sintética
0.50	THIXCIN® R PC	Trihydroxystearin	Elementis/Cosmote c
Part 3			
1.00	Cosmoguard SL-CP	Phenoxyethanol (And) Ethylhexylglycerin	Cosmotec
Part 4			
2.00	MSS-500W	Silica	Kobo Products
100.00			

Description:

This formula is a creamy, W/O sunscreen with Zinc Oxide as the UV filter. The SPF and PFA are due to ZnO Natural Origin Powders, ZnO-660-ASGP7 and ZNO-C-ASG3J. COSMOL™ 525 and T.I.O provide spreadability and a nice after feel. COSMOL™ 182V improves formula stability. KOBOGUARD® 5400 NH is an oil-soluble film former that helps with product wear. MSS-500W is a silica microsphere that reduces tackiness and improves application feel.

Manufacturing Procedure:

1. Combine Part 1 using homogenizer.
2. Combine Part 2 and add to Part 1 using homogenizer.
3. Add Part 3 and mix until homogeneous.
4. Add Part 4 and mix until homogeneous.

Active Ingredient(s):

Zinc Oxide 23.72%

Testing:

SPF: in vivo on 10 subjects
 UVA-PF: in vitro method
 CW: FDA method





KSL-479D

Shaker Ball Non-D5, Non-nano Zinc Oxide Lotion-Anhydrous



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
30.75	Pelemol® CCT	Caprylic/Capric Triglyceride	Phoenix Chemical
18.00	Cetiol® C5	Coco-Caprylate	BASF Care Creations
16.75	TEGOSOFT® DEC	Diethylhexyl Carbonate	Evonik
4.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
3.50	Claytone APA V	Stearalkonium Bentonite	Eckart
Part 2			
0.35	PROPYLENE CARBONATE	Propylene Carbonate	Sigma Aldrich
Part 3			
19.40	HBQP75FZS	Zinc Oxide (And) Butyloctyl Salicylate (And) Polyhydroxystearic Acid (And) Triethoxycaprylylsilane	Kobo Products
4.50	Plandool™-G	Bis-Behenyl/Isostearyl/Phytosteryl Dimer Dilinoleyl Dimer Dilinoleate	Nippon/Kobo Products
0.50	Lexgard® Natural MB	Glyceryl Caprylate (and) Glyceryl Undecylenate	Cosmotec
Part 4			
2.00	MSS-500W	Silica	Kobo Products
0.25	SILICA SHELLS	Silica	Kobo Products
100.00			

Description:

A waterless, shaker ball, non-nano mineral sunscreen that delivers effective sunscreen protection with minimal whitening and a non-greasy after feel. The primary sunscreen active comes from HBQP75FZS, a non-nano Zinc Oxide dispersion, that also contains SPF booster Butyloctyl Salicylate. SunBoost ATB contains a proprietary blend of argan oil and skin conditioning agents that boosts SPF and PFA values. Plandool™-G is a plant-derived emollient that helps provide water barrier protection and improves product filming attributes. MSS-500W and SILICA SHELLS give the product its non-greasy and silky after feel.

Manufacturing Procedure:

1. In main vessel, weigh out the first four ingredients. With moderate homogenization, add Claytone APA V and homogenize batch until all is smooth and uniform.
2. Add Part 2 and homogenize batch until mixture thickens and is completely uniform.
3. Add Part 3 ingredients and heat batch slightly to 50-55°C or until the Plandool™-G is completely melted. Homogenize until the batch is smooth and uniform.
4. Add Part 4 and homogenize until smooth. Cool batch with mixing to 35°C.

Active Ingredient(s):

Zinc Oxide 13.96%

Testing:

SPF: in vivo on 5 subjects
CW: FDA method

Notes:

Shaker ball packaging



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KSL-483

Shaker Ball Sunscreen



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
28.80	DIM2F650T4	Titanium Dioxide (And) Dimethicone (And) Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone (And) Alumina (And) Hydrogen Dimethicone	Kobo Products
23.20	DOWSIL™ 9041 Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Dow Chemical
13.70	DMTMF50ZSI	Zinc Oxide (And) Dimethicone (And) PEG-9 Polydimethylsiloxyethyl Dimethicone (And) Triethoxycaprylylsilane	Kobo Products
8.30	Pelemol® CCT	Caprylic/Capric Triglyceride	Phoenix Chemical
6.25	Kahlresin 6723 - Shorea Robusta Resin + Octyldodecanol	Shorea Robusta Resin (and) Octyldodecanol	KahlWax
4.55	Vegelight 1214 LC	Coconut Alkanes (And) Coco-Caprylate/Caprates	Grant Industries
3.70	Cetiol® Ultimate	Undecane (and) Tridecane	BASF
1.60	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
0.25	SALACOS® HS-6C	Polyhydroxystearic Acid	Ikeda
Part 2			
3.45	MSS-500/N	Silica	Kobo Products
Part 3			
3.70	GLYCERIN U.S.P. F.C.C. 96%	Glycerin	P&G Chemicals
1.40	SymDiol® 68	1,2 Hexanediol (and) Caprylyl Glycol	Symrise
1.10	Deionized Water	Water	
100.00			

Description:

This creamy milk sunscreen is formulated for silky smoothness, softness and minimal whitening on the skin. DIM2F650T4 and DMTMF50ZSI are attenuation grade dispersions of ZnO and TiO2 in a Non-D5 carrier. The combination of dispersions provides UVA and UVB protection. MSS-500/N is a spherical silica which provides a creamy texture, moisturizing feel, and soft and silky application that instantly reduces the appearance of lines and skin imperfections. SunBoost ATB is a proprietary ratio of antioxidant, anti-irritant and anti-inflammatory agents that boosts SPF and PFA scores.

Manufacturing Procedure:

1. Combine Part 1. Homogenize at 4800 rpm for 20 minutes until batch is smooth and uniform.
2. Add Part 2 to Part 1. Homogenize at 4800 rpm 10 minutes at RT.
3. Add Pre-mixed Part 3 to batch. Homogenize until uniform.

Active Ingredient(s):

Titanium Dioxide	11.52%
Zinc Oxide	6.58%

Testing:

SPF: in vivo on 5 subjects
CW: FDA method



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KSL-492-EU

Natural No Residue Sunscreen Lotion



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
11.30	DUB ZENOAT®	Propanediol Dicaprylate	Stéarinerie-Dubois
11.25	DUB 810 C	Coco Caprylate Caprate	Stearinerie Dubois
10.00	ZnO-660-ASGP7	Zinc Oxide (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	Kobo Products
8.00	A10-TiO2-SA-ASG8	Titanium Dioxide (And) Aluminum Hydroxide (And) Stearoyl Glutamic Acid (And) Hydrated Silica	Kobo Products
4.00	SunBoost ATB Natural	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
3.00	PolyAqual™-VO4	Polyglyceryl-4 Oleate (and) Polyglyceryl-6 Oleate (and) Polyhydroxystearic Acid	DKSH
Part 2			
43.75	Deionized Water	Water	
2.00	Glycerin	Glycerin	Interchemie
1.50	Mg Sulfate Hept	Magnesium Sulfate Heptahydrate	Fisher Scientific
0.70	SymDiol® 68	1,2 Hexanediol (and) Caprylyl Glycol	Symrise
0.50	sensiva® PA 40	Phenylpropanol (and) Propanediol (and) Caprylyl Glycol (and) Tocopherol	Schulke & Mayr
Part 3			
2.00	MSS-500/N	Silica	Kobo Products
2.00	CELLULOBEADS D-10-NPC2	Cellulose (And) Hydrogenated Lecithin	Kobo Products
100.00			

Description:

A very simple, cold process w/o lotion containing mineral filters in surface treated powder form. The formula is very easy to spread on the skin, has a light feel and rubs in without any residue or white cast. A10-TiO2-SA-ASG8, a 10 nm PPS Titanium Dioxide with natural origin surface treatment and ZnO-660-ASGP7, a 25 nm PPS Zinc Oxide with superdispersible natural origin surface treatment disperse easily in chosen natural emollients. Both powders are non-nano by PS and chosen for their high transparency. Sunboost ATB Natural is used at 4% to boost UV protection and contribute antioxidant skin protection to the formula. CELLULOBEADS D10-NPC2, Cellulose beads with natural origin Hydrogenated Lecithin treatment which renders it ultra creamy and soft are used in combination with MSS-500/N, a 12 micron average PS non-absorbing silica bead to improve the feel, cut tack and impart a matte finish on the skin.

Manufacturing Procedure:

1. Prepare Part 1 by dispersing the powders in the liquid ingredients.
2. Mix Part 2.
3. Emulsify under propeller stirrer at 800-1000 rpm.
4. Homogenize for 1-2 minutes at 3000 rpm.
5. Add the powders of Part 3.

Active Ingredient(s):

Titanium Dioxide	5.25%
Zinc Oxide	9.30%

Testing:

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



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KFL-306

Genderless Blue Light Solution

%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
40.00	Deionized Water	Water	
4.00	GLYCERIN U.S.P. F.C.C. 96%	Glycerin	P&G Chemicals
1.50	JEECIDE® CAP-7	Caprylyl Glycol (and) Glyceryl Laurate (and) Glyceryl Undecylenate	Jeen International
1.00	Cn-HAHWS	Water (And) Pentylene Glycol (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Sodium Hyaluronate (And) Hydrogenated Lecithin	Kobo Products
1.00	Magnesium Sulfate	Magnesium Sulfate	Fisher Scientific
0.20	Potassium Sorbate	Potassium Sorbate	Jeen International
Part 2			
11.00	TNP70MZ	Zinc Oxide (And) C12-15 Alkyl Benzoate (And) Polyhydroxystearic Acid (And) Isopropyl Titanium Triisostearate	Kobo Products
10.70	Dermol 25B	C12-15 Alkyl Benzoate	Alzo International
10.00	Xiameter® PMX-200 SILICONE FLUID 5 CS	Dimethicone	Dow Chemical
7.00	Protachem CTG	Caprylic/Capric Triglyceride	Protameen
6.00	TNP45TELR	Titanium Dioxide (And) C12-15 Alkyl Benzoate (And) Stearic Acid (And) Silica (And) Alumina (And) Polyhydroxystearic Acid (And) Iron Oxides (CI 77491)	Kobo Products
3.50	Abil® WAX 9801	Cetyl Dimethicone	Evonik
3.50	ABIL® EM 90	Cetyl PEG/PPG-10/1 Dimethicone	Evonik
0.50	MSS-500W	Silica	Kobo Products
0.10	TNP55TRY	Iron Oxides (CI 77492) (And) C12-15 Alkyl Benzoate (And) Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	Kobo Products
100.00			

Description:

A light beige facial hydrating lotion that protects skin from blue light during indoor and outdoor activities. TNP45TELR offers protection from damaging blue light (HEV). This dispersion also contains Transparent Red Iron Oxide to tint the formula. TNP70MZ provides UVB/UVA protection. TNP55TRY works in combination with the Transparent Red Iron Oxide used in TNP45TELR to create the light beige tint in order to mitigate a blue/white cast on deep skin tones. Cn-HAHWS contains Sodium Hyaluronate and provides hydration and moisture to skin. MSS-500W contributes to the silky and non-oily feel.

Manufacturing Procedure:

1. In a side beaker, add Part 1 and mix until salts have dissolved and batch is uniform.
2. In main beaker, add Part 2 and prop mix until uniform.
3. Add Part 1 to Part 2 slowly under the homomixer, mix until uniform. Check between slides for color streaks. Stop mixing and store bulk in glass jars.

Active Ingredient(s):

Titanium Oxide	2.40%
Zinc Oxide	7.38%



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KFL-298

Clean Beauty Take the White Away Lotion



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
56.14	GCP45XZJ	Caprylic/Capric Triglyceride (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Jojoba Esters	Kobo Products
12.00	Protachem CTG	Caprylic/Capric Triglyceride	Protameen
4.50	DEHYMULS® PGPH	Polyglyceryl-2 Dipolyhydroxystearate	BASF
4.50	COSMOL™ 43V	Polyglyceryl-2 Triisostearate	Ikeda
1.65	LexFilm™ Sun Natural MB	Capryloyl Glycerin/Sebacic Acid Copolymer	Inolex
1.50	Plandool™-G	Bis-Behenyl/Isostearyl/Phytosteryl Dimer Dilinoleyl Dimer Dilinoleate	Nippon/Kobo Products
0.10	General® 122 N PRL-C	Glycine Soja (Soybean) Sterols	BASF
Part 2			
0.30	GCG50TRSG	Iron Oxides (CI 77491) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid	Kobo Products
0.10	GCG50TYSG	Iron Oxides (CI 77492) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid	Kobo Products
0.01	KTZ® EBONY	Iron Oxides (CI 77499) (And) Mica	Kobo Products
Part 3			
0.50	Pelemol GTB	Tribehenin Tribehenin	Phoenix Chemical
Part 4			
10.10	Deionized Water	Water	
1.00	Magnesium Sulfate Heptahydrate	Magnesium Sulfate	Sigma Aldrich
0.75	SUPEROL GLYCERINE USP, KOSHER GLYCERINE USP	Glycerin	P&G Chemicals
Part 5			
3.00	Zemea®	Propanediol	Du Pont & Tate
0.60	SymDiol® 68	1,2-Hexanediol (And) Caprylyl Glycol	Symrise
0.50	Symsave® H	Hydroxyacetophenone	Symrise
Part 6			
2.75	MSS-500W	Silica	Kobo Products
100.00			

Description:

These Take the White Away Color Drops reduce whitening and blue cast on deep skin tones when sunscreen is applied. GCP45XZJ provides UV protection. Plandool™-G provides skin moisture protection. GCG50TRSG, GCG50TYSG and KTZ® EBONY add a slight pigmented tint. MSS-500W provides a silky dry and soft feel.

Manufacturing Procedure:

1. In main vessel, heat Part 1 with mixing to 75-80°C. Add Part 2 and mix well. Add Part 3 and mix until uniform.
2. In a side kettle, mix Part 4 ingredients while heating to 75°C.
3. Pre-mix part 5 until Symsave® H is dissolved and phase is uniform. Add to Part 4 and mix well.
4. With fast speed propeller, slowly add Parts 4 and 5 to Parts 1,2, and 3. Fast speed mix with ambient cooling.
5. When batch reaches 45°C, transfer batch to homogenizer. Homogenize batch for 1-2 minutes.
6. Add Part 6 and homogenize to 35°C

Active Ingredient(s):

Zinc Oxide 23.75%

Testing:

SPF: in vivo on 5 subjects
CW: FDA method



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KFL-287-BR

Natural Moisturizer with SPF



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
48.60	Deionized Water	Water	
0.50	INULIN-SC	Inulin	Nippon/Kobo Products
Part 2			
2.00	Glicerina Bi-Destilada U.S.P.	Glycerin	Synth
0.15	Goma Xantana	Xanthan Gum	M Cassab
Part 3			
21.50	ZNO-660-ASGP7	Zinc Oxide (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	Kobo Products
6.50	Cetiol® Ultimate	Undecane (and) Tridecane	BASF
5.70	EMOGREEN™ L19	C15-19 Alkane	Seppic
3.25	TEGO® Care PBS 6 MB	Polyglyceryl-6 Stearate (and) Polyglyceryl-6 Behenate	Evonik
2.30	TEGOSOFT® CT	Caprylic/Capric Triglycerides	Evonik
2.00	PolyAqual™-LW	Polyglyceryl-4 Laurate (and) Polyglyceryl-6 Laurate	Innovacos
1.50	SunBoost ATB Natural	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
1.00	ALKONAT® 1618 C30	Cetearyl Alcohol	M Cassab
1.00	Lexgard® Natural MB	Glyceryl Caprylate (and) Glyceryl Undecylenate	Inolx
1.00	TEGIN® M Pellets	Glyceryl Stearate	Cosmotec
Part 4			
3.00	CELLULOBEADS D-5-NPC2	Cellulose (And) Hydrogenated Lecithin	Kobo Products
100.00			

Description:

This Natural Moisturizer is grease-free and has a creamy texture. It helps in skin hydration while protecting against UVB and UVA rays. It features INULIN-SC, a sugarcane-derived polysaccharide that delivers moisture to the stratum corneum. ZNO-660-ASGP7 which requires minimal energy to disperse, was used for balanced sun protection with low whitening effect. SunBoost ATB Natural contains a proprietary ratio of antioxidant, anti-irritant and anti-inflammatory agents to help boost SPF and PFA. CELLULOBEADS D-5-NPC2 is a cellulose microsphere treated with non-GMO hydrogenated lecithin, contributing to the soft and delicate after feel.

Manufacturing Procedure:

1. Combine Part 1 and mix until homogeneous.
2. Combine Part 2 and add to Part 1. Mix until homogeneous. Heat to 80°C.
3. Combine Part 3 and mix until full dispersion of zinc oxide. Heat to 80°C.
4. Add Part 3 to Parts 1 and 2 and mix until homogeneous (use homogenizer).
5. Cool to 30-25°C and add Part 4. Mix until homogeneous.

Active Ingredient(s):

Zinc Oxide 20.10%

Testing:

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

Notes:

CW: 370nm; tested using ISO 24443:2012 methodology



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%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
10.93	SALACOS® 99	Isononyl Isononanoate	Ikeda/Kobo Products
9.50	EMOGREEN™ L15	C15-19 Alkane	Seppic
9.50	T.I.O.	Triethylhexanoïn	Ikeda/Kobo Products
7.00	KOBOGUARD® 5400 NH	Hydrogenated Polycyclopentadiene (And) C13-15 Alkane	Kobo Products
5.00	CXG-1104	Dimethicone (And) Dimethicone/Vinyl Dimethicone Crosspolymer	Avantor/Kobo Products
Part 2			
13.00	VEGETABLE WAX-SS1 (Non-GMO)	Helianthus Annuus (Sunflower) Seed Wax (And) Phytosterols	Ikeda/Kobo Products
10.00	PM WAX 82	Polyethylene (And) Microcrystalline Wax	Toray/Kobo Products
4.00	BENTONE GEL® GTCC V	Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Propylene Carbonate	Cosmotec
2.00	SALACOS® 334	Caprylic/Capric/Myristic/Stearic Triglyceride	Ikeda/Kobo Products
1.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
Part 3			
0.05	GCG50TYSG	Iron Oxides (CI 77492) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid	Kobo Products
0.01	KTZ® EBONY	Iron Oxides (CI 77499) (And) Mica	Kobo Products
0.01	GCG50TRSG	Iron Oxides (CI 77491) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid	Kobo Products
Part 4			
15.00	MSS-500/N	Silica	Kobo Products
10.00	KoboBlur™ 100 Natural	Silica (And) Cellulose (And) Mica (And) Barium Sulfate (And) Titanium Dioxide (And) Jojoba Esters	Kobo Products
3.00	MSS-500/3H	Silica	Kobo Products
100.00			

Description:

This skin plumping product fills in fine lines while hydrating and treating the skin. It features a combination of microspheres, KoboBlur™ 100 Natural, MSS-500/N and MSS-500/3H, that contributes to the soft focus effect, nice application and after feel. SALACOS® 334 is a synthetic butter with superior oxidative stability that imparts skin moisturization and smoothness. SunBoost ATB soothes the skin due to its Bisabolol and Vitamin E content. SALACOS® 99 and T.I.O. are light emollients that provide spreadability. KOBOGUARD® 5400 NH is a film former that contributes to formula wear. CXG-1104, a silicone elastomer, improves feel upon application. KTZ® EBONY is a black pearlescent pigment, containing a high concentration of Black Iron Oxide on natural mica, working to make the shade in combination with Transparent Iron Oxides, GCG50TYSG and GCG50TRSG. VEGETABLE WAX-SS1 (Non-GMO) and PM WAX 82 were used to structure the formulation.

Manufacturing Procedure:

1. Combine Part 1 and mix until homogeneous.
2. Add Part 2. Heat to 80° C and mix until homogeneous.
3. Add Part 3 and mix until homogeneous.
4. Add Part 4 and mix until homogenous.
5. Pour into components.





KFL-294A

Tinted ZnO Sunscreen For All Skin Types



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
58.40	GCP45XZJ	Caprylic/Capric Triglyceride (And) Zinc Oxide (And) Polyhydroxystearic Acid (And) Jojoba Esters	Kobo Products
10.99	Protachem™ CTG	Caprylic/Capric Triglyceride	Protameen
8.25	CXG-1104	Dimethicone (And) Dimethicone/Vinyl Dimethicone Crosspolymer	Avantor/Kobo Products
6.60	X-22-6711D	Dimethicone (And) PEG/PPG-18/18 Dimethicone	Shin-Etsu
2.75	KOBOGUARD® MQ60DM	Trimethylsiloxylicic acid (And) Dimethicone	Kobo Products
1.35	COSMOL™ 43V	Polyglyceryl-2 Trisostearate	Ikeda
0.55	PANALANE® H-300E	Hydrogenated Polyisobutene	Vantage
0.30	GCG50TRSG	Iron Oxides (CI 77491) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid	Kobo Products
0.10	GCG50TYSG	Iron Oxides (CI 77492) (And) Caprylic/Capric Triglyceride (And) Polyglyceryl-3 Diisostearate (And) Stearoyl Glutamic Acid	Kobo Products
0.05	AQUA KEEP 10SH-NFC	Sodium Acrylates Crosspolymer-2	Sumitomo Seika/Kobo Products
Part 2			
0.01	KTZ® EBONY-11S4	Iron Oxides (CI 77499) (And) Mica (And) Triethoxycaprylylsilane	Kobo Products
Part 3			
0.55	Pelemol® GTB	Tribehenin	Phoenix Chemical
Part 4			
5.80	Deionized Water	Water	
1.00	Lexgard® Natural MB	Glyceryl Caprylate (and) Glyceryl Undecylenate	Cosmotec
0.55	SUPEROL® KPO, GLYCERIN 99.7% USP/FCC (KOSHER)	Glycerin	P&G Chemicals
Part 5			
2.75	MSS-500W	Silica	Kobo Products
100.00			

Description:

This formula is our newest tinted sunscreen. It does not show whitening or blue cast on any skin tone on application. This lightweight and easy to spread product offers flawless and natural looking skin. GCP45XZJ provides UV protection. CXG-1104, a silicone elastomer, improves feel upon application. Transparent Iron Oxide dispersions, GCG50TRSG and GCG50TYSG, and KTZ® EBONY-11S4 create the tint. MSS-500W provides a silky, dry and soft feel. KOBOGUARD® MQ60DM is a film former that improves water resistance. AQUA KEEP 10SH-NFC gels the aqueous phase and offers stability to the formula.

Manufacturing Procedure:

1. Homogenize Part 1. Mix until uniform.
2. Sprinkle in Part 2, homogenize until uniform.
3. Switch to propeller mixer. Begin heating to 65°C
4. Add Part 3, prop mix until completely melted and uniform. Begin cooling batch to 40°C.
5. In a side beaker combine Part 4, mix until uniform.
6. With slow homogenization add Part 4 to Part 1,2,3. Mix until uniform.
7. Slowly sprinkle in Part 5, homogenize until uniform while cooling to 28°C.

Active Ingredient(s):

Zinc Oxide 24.97%

Testing:

SPF: in vivo on 5 subjects
CW: FDA method



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KFL-300

Natural Charcoal Deodorant

%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
36.75	Pelemol® CCT	Caprylic/Capric Triglyceride	Phoenix Chemical
20.00	VEGETABLE WAX-SS1 (Non-GMO)	Helianthus Annuus (Sunflower) Seed Wax (And) Phytosterols	Ikeda
4.50	Plandool™-LG2	Phytosteryl/Octyldodecyl Lauroyl Glutamate	Nippon/Kobo Products
3.00	Plandool™-G	Bis-Behenyl/Isostearyl/Phytosteryl Dimer Dilinoleyl Dimer Dilinoleate	Nippon/Kobo Products
3.00	Shebu Refined	Butyrospermum Parkii (Shea Butter)	RITA Corporation
1.50	KOBOGUARD® 5400 IDD	Hydrogenated Polycyclopentadiene (And) Isododecane	Kobo Products
Part 2			
14.20	MST MAKIGREEN CORN S	Zea Mays (Corn) Starch (And) Magnesium Stearate	Daito/Kobo Products
6.00	Pure Baking Soda	Sodium Bicarbonate	Arm & Hammer
4.00	MSS-500/H	Silica	Kobo Products
0.30	CHARCOAL POWDER	Charcoal Powder	Adsorb/Kobo Products
0.20	SILICA SHELLS	Silica	Kobo Products
Part 3			
0.80	Fragrance	CE-203776 French Vanilla Bean	Custom Essence
0.75	Lexgard® O	Caprylyl Glycol	Inolex
95.00			

Description:

An aluminum-free charcoal deodorant that feels soft and light, and provides protection against perspiration and odor. This formula features CHARCOAL POWDER, a highly porous powder, which absorbs impurities from the skin. SILICA SHELLS absorbs excess oils and provides a non-tacky application. VEGETABLE WAX-SS1 (Non-GMO) is used to structure the formulation. Plandool™-G helps the stick glide smoothly upon application. Plandool™-LG2 improves malleability of the wax and provides additional structure. MST MAKIGREEN CORN S is a filler that provides a silky texture. MSS-500/H provides both slip to the formula and mattifying properties. KOBOGUARD® 5400 IDD is added for comfortable wear.

Manufacturing Procedure:

1. Propeller mix Part 1 and heat to 80°C while keeping batch tightly covered. Mix until fully clear.
2. Add each individual ingredient in Part 2 to Part 1 with propeller mixing between.
3. Add Part 3 into Parts 1 and 2. Continue mixing for 5 minutes.
4. Pour into components at 70°C.



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KFL-305

Charcoal Clay Mask and Scrub

%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
65.30	Deionized Water	Water	
4.00	Veegum® HV	Magnesium Aluminum Silicate	R.T. Vanderbilt
0.50	dermofeel® PA-3	Sodium Phytate (and) Aqua (and) Alcohol	Evonik Dr. Straetmans GmbH
Part 2			
4.00	GLYCERIN U.S.P. F.C.C. 96%	Glycerin	P&G Chemicals
0.20	Keltrol® CG	Xanthan Gum	CP Kelco
Part 3			
13.00	K-RAY® MagBlue	Titanium Dioxide (And) Mica (And) Iron Oxides (CI 77499)	Kobo Products
3.50	BENTONITE,ALBAGEL PREM NF BC	Bentonite	Brenntag Specialties
2.00	KoboScrub™ SD-200	Silica	Kobo Products
1.00	CHARCOAL POWDER	Charcoal Powder	Adsorb/Kobo Products
0.50	BBO-NJE2	Iron Oxides (CI 77499) (And) Jojoba Esters	Kobo Products
Part 4			
2.50	Jeepon 30-A	Sodium Methyl Cocoyl Taurate	Jeen International
2.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
1.00	AE Preserve® PCG	Phenethylalcohol (And) Caprylhydroxamic Acid (And) Glycerin	AE Chemie
Part 5			
0.50	Cn-HAHWS	Water (And) Pentylene Glycol (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Sodium Hyaluronate (And) Hydrogenated Lecithin	Kobo Products
100.00			

Description:

This Charcoal Clay Mask & Scrub is a 2-in-1 formula that exfoliates and detoxifies leaving smooth, clean and refreshed skin. This formula features CHARCOAL POWDER which is a natural and highly porous powder that can absorb impurities, odors, moisture, oils and sebum on the skin. KoboScrub™ SD-200, natural origin plastic-free scrubbing beads, provides strong exfoliation properties. SunBoost ATB Natural is a proprietary blend of antioxidants and skin soothing agents for skin conditioning. Cn-HAHWS (Sodium Hyaluronate) adds skin care benefits to the formula. BBO-NJE2 and K-RAY® MagBlue provide the unique midnight blue color.

Manufacturing Procedure:

1. Combine Part 1 with fast speed propeller mixing. Heat to 65°C and mix for 30 minutes until clear and uniform.
2. Pre-mix Part 2 and then add to Part 1. Mix well.
3. Slowly add Part 3, one at a time, to Parts 1 and 2.
4. Add Part 4 to the batch. Mix until homogeneous.
5. Add Part 5. Mix until uniform.



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KFL-299

Dual-use After Shave or Maskne Facial Serum

%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
61.80	Deionized Water	Water	
10.00	Exilva FM 02-L	Water (And) Cellulose	Borregaard/Kobo Products
1.00	Aristoflex® Silk	Sodium Polyacryloyldimethyl Taurate	Clariant
0.10	BV-OSC	Tetrahexyldecyl Ascorbate	Barnet
Part 2			
2.00	SunBoost ATB	Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	Kobo Products
0.50	Neosolue™-Aqualio	Bis-Ethoxydiglycol Cyclohexane 1,4-Dicarboxylate	Nippon/Kobo Products
Part 3			
7.00	Deionized Water	Water	
1.50	INULIN-SC	Inulin	Nippon/Kobo Products
1.15	Trisodium Citrate Dihydrate	Sodium Citrate	Jungbunzlauer
0.50	GLB Standards™ Fruit Acid Blend AQ	Water (And) Vaccinium Myrtillus (Bilberry) Fruit Extract (And) Citrus Aurantium Dulcis (Orange) Fruit Extract (And) Acer Saccharum (Sugar Maple) Extract (And) Citrus Limon (Lemon) Fruit Extract (And) Saccharum Officianarum (Sugar Cane) Extract	Green Line Botanicals
0.50	Gs-GTS	Water (And) Pentylene Glycol (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) Camellia Sinensis Leaf Extract (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Hydrogenated Lecithin	Kobo Products
0.50	Gs-PCOGS	Water (And) Pentylene Glycol (And) Palmitoyl Hydroxypropyltrimonium Amylopectin/Glycerin Crosspolymer (And) 1,2-Hexanediol (And) Caprylyl Glycol (And) Vitis Vinifera (Grape) Seed Extract (And) Hydrogenated Lecithin	Kobo Products
0.10	GLB Standards™ Willow Bark Extract AQ	Water and Salix Nigra (Willow) Bark Extract	Green Line Botanicals
0.05	CITRIC ACID USP ANHYDROUS FINE GRANULAR	Citric Acid	Jungbunzlauer
Part 4			
4.00	Ethanol 200 Proof (100%) Alcohol, USP Grade	Ethanol	Decon Laboratories, Inc
2.50	MSS-500W	Silica	Kobo Products
Part 5			
2.00	HYASOL PF	Sodium Hyaluronate (and) Aqua (and) phenoxyethanol	DSM Nutritional Products
2.00	Pluracare® E 400 NF PEG- FLEX		BASF
2.00	Zemea®	Propanediol	Du Pont & Tate
0.80	SymDiol® 68	1,2 Hexanediol (and) Caprylyl Glycol	Symrise
100.00			

Description:

A multi-use facial serum that can be used post shaving or after a long day of facial mask use. Exilva FM 02-L provides body and structure to the serum while suspending the oils in the formula. SunBoost ATB is a proprietary blend of antioxidants and skin soothing agents for skin conditioning and soothing properties. Neosolue™-Aqualio helps to stabilize the oils in the formula and enhance the active ingredient benefits. INULIN-SC is a sugarcane derived humectant that provides tack-free moisturization. Gs-GTS (green tea for purifying) and Gs-PCOGS (grape PCO's, powerful antioxidants) are Kobo's encapsulation technology. MSS-500W is a spherical silica that provides a soft powdery feel and mattifies the skin's oily zones.

Manufacturing Procedure:

1. In main vessel, pre-mix the first two ingredients in Part 1 with fast speed propeller until the mixture is smooth and uniform.
2. With fast speed mixing, sprinkle in Aristoflex® Silk and fast mix for at least 30 minutes and batch thickens. (avoid aerating).
3. Pre-mix Part 2 and add to the batch with moderate mixing. (Avoid aerating).
4. Weigh out liquids in Part 3 and add to the batch with mixing. Then add Part 3 powders and mix well until all is dissolved.
5. Pre-mix Part 4 and add to batch with fast speed mixing. (avoiding aeration) Then add pre-mixed Part 5.

Notes:

orifice reducer for serum dispensing



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