



KSL-392A

Mousse Sunscreen with NHP Dispersions



%	INGREDIENT	INCI NAME	SUPPLIER
Part 1			
30.00	NHP60MZ8SG	Zinc Oxide (And) C13-15 Alkane (And) Stearoyl Glutamic Acid (And) Polyhydroxystearic Acid	Kobo Products
15.00	NHP55STS	Titanium Dioxide (And) C13-15 Alkane (And) Stearic Acid (And) Aluminum Hydroxide (And) Polyhydroxystearic Acid	Kobo Products
Part 2			
12.00	X-22-6711D	Dimethicone (And) PEG/PPG-18/18 Dimethicone	Shin-Etsu
2.50	COSMOL™ 43V	Polyglyceryl-2 Triisostearate	Ikeda
Part 3			
15.00	CXG-1104	Dimethicone (And) Dimethicone/Vinyl Dimethicone Crosspolymer	Avantor/Kobo Products
5.00	KOBOGUARD® MQ60DM	Trimethylsiloxysilicate (And) Dimethicone	Kobo Products
1.00	Pelemol® GTB	Tribehenin	Phoenix Chemical
1.00	Panalene® H-300E	Hydrogenated Polyisobutene	Vantage
Part 4			
0.10	AQUA KEEP 10SH-NFC	Sodium Acrylates Crosspolymer-2	Sumitomo Seika/Kobo Products
Part 5			
11.40	Deionized Water	Water	
1.00	Glycerin U.S.P. F.C.C. 96%	Glycerin	Ruger Chemical
1.00	Euxyl® PE 9010	Phenoxyethanol (And) Ethylhexylglycerin	Schulke & Mayr
Part 6			
5.00	MSS-500W	Silica	Kobo Products
100.00			

Description:

This moussy and creamy sunscreen formula glides onto the skin with minimal whitening. Kobo's attenuation grade NHP dispersions provide SPF and UVA protection. CXG-1104, a silicone elastomer, contributes to the texture and enhances slip and spreadability. KOBOGUARD® MQ60DM, a silicone-based film former, improves wear and water resistance. AQUA KEEP 10SH-NFC gels the aqueous phase and offers stability to the formula. MSS-500W enhances the feel and provides a soft focus effect.

Manufacturing

Procedure:

1. Mix Part 1.
2. Combine Part 2 and homogenize at room temperature.
3. Slowly add Part 1 to Part 2 under the homogenizer.
4. Switch to prop mix and add Part 3 to the main beaker. Heat to 75°C. Keep tightly covered.
5. Add Part 4 at 75°C.
6. Combine Part 5 under prop mix and heat to 70°C.
7. Slowly add Part 5 to main beaker when both phases are at 70°C.
8. Slowly add Part 6 and mix on high speed until batch is cool.

Active Inredient(s):

Zinc Oxide	17.10%
Titanium Dioxide	6.84%

Testing:

SPF: in vivo on 5 subjects
 UVA-PF: in vivo on 3 subjects
 CW: FDA method



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