

Presperse Finished Products

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Solar Max

(SPF-79 *in vitro*)

Formula #: 33-34-1, Date: 1/08/09

WHAT IS IT?	An O/W lotion for the body with Sunscreen Dispersion SiCLONE™ TD-150 and actives RED TOCOL ARCTIC CRANBERRY SEED OIL and KALPARIANE which together act as a strong defense system against the sun and provides a high SPF.
HOW DO YOU USE IT?	Gently massage into sun-exposed areas of the body until dry, before sun exposure. Repeat as necessary.
WHO SHOULD USE IT?	Anyone seeking a potent sunscreen lotion which shields against the harmful effects of UVA/UVB rays with additional protection from antioxidants and free radicals. This lotion easily absorbs into the skin without leaving a greasy feeling.
WHAT DOES IT DO?	SiCLONE TD-150 is a silicone-free titanium dioxide dispersion which provides excellent transparency while giving broad UV shielding. RED TOCOL ARCTIC CRANBERRY SEED OIL provides essential fatty acids and tocotrienols for nourishing, moisturizing and protecting skin. KALPARIANE protects elastin and collagen while increasing skin hydration and suppleness.
WHAT'S IN IT?	Water (aqua), Titanium Dioxide, C12-14 Isoparaffin, Glycerin, Isohexadecane, Oxidized Polyethylene, C13-16 Isoparaffin, Isohexadecane, C13-15 Alkane, Glyceryl Stearate, Aluminum Hydroxide, Isostearic Acid, Peg-100 Stearate, PTFE, Sorbitan Stearate, Polyisobutene, C18-21 Alkane, Magnesium Aluminum Silicate, Xanthan Gum, Butylene glycol, Disodium EDTA, Polyisobutene, Polyethylene, Oxyccoccus Palustris Seed Oil, Caprylic/Capric Triglyceride, Algae, Phenoxyethanol, Ethylhexylglycerin

Trade Name	INCI Name	Supplier	% W/W
PHASE A			
DEIONIZED WATER	Water	N/A	36.45
VEEGUM ULTRA	Magnesium Aluminum Silicate	RT Vanderbilt	0.50
KELTROL CG	Xanthan Gum	Kelco	0.20
GLYCERIN 99.7% USP	Glycerin	Jeen	3.00
BUTYLENE GLYCOL	Butylene glycol	Ruger	1.00
TRILON BD	Disodium EDTA	BASF	0.05
PHASE B			
PERMETHYL® 104A	Polyisobutene	Presperse, LLC	1.00
JEECHEM SMS	Sorbitan Stearate	Jeen	1.30
PERMETHYL 101A	Isohexadecane	Presperse, LLC	2.00
MICROSLIP 519L	PTFE	Presperse, LLC	1.50
MICROPOLY 210	Oxidized Polyethylene	Presperse, LLC	2.50
MICROPOLY 230L	Polyethylene	Presperse, LLC	0.50
LIPOMULSE 165	Glyceryl Stearate (and) Peg-100 Stearate	Lipo Chemical	4.00
SiCLONE SR-5	C13-16 Isoparaffin (and) C12-14 Isoparaffin (and) C13-15 Alkane	Presperse, LLC	3.00
SiCLONE TD-150	Titanium Dioxide (and) C13-16 Isoparaffin (and) C12-14 Isoparaffin (and) C13-15 Alkane (and) Aluminum Hydroxide (and) Isostearic Acid (and) C18-21 Alkane	Presperse, LLC	40.00



PHASE C			
EUXYL PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	Schulke	1.00
PHASE D			
RED TOCOL ARCTIC CRANBERRY SEED OIL	Oxycoccus Palustris Seed Oil	Presperse, LLC	1.00
KALPARIANE	Caprylic/Capric Triglyceride (and) Alaria Esculenta Extract	Presperse, LLC	1.00

Presperse products appear in bold.

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P R O C E D U R E

1. In a main vessel, add water and begin heating to 75-80 °C with a prop mixer. Add Disodium EDTA and mix well until dissolved.
2. In a separate vessel, add Glycerin and Butylene Glycol. Then disperse Veegum Ultra and Keltrol CG into the Glycerin and Butylene Glycol. Mix until a slurry forms. Then add the slurry to the main vessel. Mix until uniform with prop mixer.
3. In a separate vessel, add Phase B ingredients and heat to 75- 80 °C with a prop mixer. Make sure phase is uniform and correct temperature before continuing.
4. Add Phase B to Phase A with homogenization for 2-3 minutes with medium speed at 75-80 °C until uniform.
5. Cool batch to 45 °C with prop mixing. Once at 45 °C, add Phase C. Mix until uniform.
6. Continue cooling to 40 °C, add Phase D and mix until uniform.
7. Add Phase E at 40 °C and mix well until uniform.
8. Cool to 25 °C.

INGREDIENT	FUNCTION
PERMETHYL 104A	Provides film formation with excellent barrier properties
PERMETHYL 101A	Highly emollient and feels light and silky on skin
MICROSLIP 519L	Excellent adhesion with a creamy feel
MICROPOLY 210	Gives a creamy feel while improving the stability of an emulsion
MICROPOLY 230L	Improves a increased soft and creamy feel while working as a binder and bulking agent
SI CLONE SR-5	Provides volatility and a light feel on the skin
SI CLONE TD-150	Provides excellent transparency and UV shielding
RED TOCOL ARCTIC CRANBERRY SEED OIL	Rich in linoleic acids and alpha-linolenic acids. Also provides UV damage protection, free radical scavenging, anti-aging and skin moisturization
KALPARIANE	Prevents elastin and collagen from degrading and increases skin suppleness and hydration

S P E C I F I C A T I O N S

APPEARANCE	White viscous liquid
pH	5-7
VISCOSITY @ 25°C	5,000-7000 cps (LVT, Spindle #4, 12 rpm@1 min)

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