

Presperse Finished Products

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Get Physical (SPF-28 *in vitro*)

Formula #: 32-72-2, Date: 11/21/08

WHAT IS IT?	A W/O moisturizing sun protection cream specially formulated using a physical sun screen active to help irritated and fragile skin. Natural Marine botanicals combat aging and sensitive skin as they protect and repair fragile skin. SiClone™ TD-150 titanium dioxide dispersion offers sun protection without the irritation level found in organic chemical sunscreens.
HOW DO YOU USE IT?	Apply a small amount onto a sponge applicator and gently dab evenly over the face until a desired coverage is achieved.
WHO SHOULD USE IT?	Anyone seeking a hydrating moisturizer with the benefit of non-chemical sunscreen protection specially formulated with physical sun blocker for fragile skin. Those seeking a one step moisturizer, skin treatment and sun protection.
WHAT DOES IT DO?	High transparency, coupled with its excellent UV shielding effect, allows SiCloneTD-150 to offer a non-chemical, broad UVA/UVB protection without irritation.. Marine extract Antileukine 6 protects skin from DNA damage associated with UV exposure, and also protects and reduces inflammation caused by environmental stress. Sea Mayweed SC soothes and relaxes sensitive skin. SICLONE SR-5 imparts the dry emollience, which leaves the skin feeling soft and silky. PERMETHYL® 104A provides film forming, which enhances the efficacy and improves wearability of the sunscreen.
WHAT'S IN IT?	Water, Titanium Dioxide, C13-16 Isoparaffin, C12-14 Isoparaffin, C13-15 Alkane, Aluminum Hydroxide, Isostearic Acid, C18-21 Alkane, Isohexadecane, Dimethicone Crosspolymer-3, Mica, Lauryl PEG/PPG-18/18 methicone, Silica, Glycerine, Chondrus Crispus (Carrageenan) Extract, Aster Maritima Extract, Tripleurospermum Maritima Extract, Caprylic/Capric Triglyceride, Cetyl PEG/PPG-10/11 Dimethicone, Polyisobutene, Phenoxyethanol, Ethylhexylglycerin, Dimethicone, Yellow Iron Oxide, Red Iron Oxide, Black Iron Oxide, Sodium Chloride.

Trade Name	INCI Name	Supplier	% W/W
PHASE A			
SiClone SR-5	C ₁₃₋₁₆ Isoparaffin, C ₁₂₋₁₄ Isoparaffin, C ₁₃₋₁₅ Alkane	Presperse, LLC	2.00
Permethyl 246C	C ₁₈₋₂₁ Alkane (and) Polyisobutene	Presperse, LLC	5.00
Jeesilc IHD	Isohexadecane (and) Dimethicone Crosspolymer-3	Jeen International	8.00
Antileukine 6	Caprylic/Capric Triglyceride (and) Laminaria Ochroleuca Extract	Presperse, LLC	2.00
Formulation Aide 5200	Lauryl PEG/PPG-18/18 methicone	Dow Corning	2.00
Abil EM-90	Cetyl PEG/PPG-10/11 Dimethicone	Degussa	1.00
Permethyl 104A	Polyisobutene	Presperse, LLC	1.00
PHASE B			
SiClone TD-150	Titanium Dioxide (and) C ₁₃₋₁₆ Isoparaffin (and) C ₁₂₋₁₄ Isoparaffin (and) C ₁₃₋₁₅ Alkane (and) Aluminum Hydroxide (and) Isostearic Acid (and) C ₁₈₋₂₁ Alkane	Presperse, LLC	15.00
PHASE C			
Spheron L-1500	Silica	Presperse, LLC	2.00
Micropoly 230L	Polyethylene	Presperse, LLC	1.00



PHASE D			
Deionized Water	Water	N/A	53.25
Zilgel Oil	Glycerin (and) water (and) Sodium Polyacrylate (and) PVM/MA Copolymer	Presperse, LLC	3.00
Oligogeline	Water (and) Chondrus Crispus (Carrageenan) Extract	Presperse, LLC	2.00
Sea Mayweed SC	Water (and) Tripleurospermum Maritima Extract	Presperse, LLC	1.00
Sodium Chloride USP	Sodium Chloride	N/A	0.75
Euxyl PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	Schülke	1.00

Presperse products appear in bold.
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P R O C E D U R E

1. Combine Phase A in the order listed with medium propeller mixing at 20-25C. Mix until uniform (1-2 min).
2. Add phase B to Phase A and mix with a high shear mixer at medium speed until homogenous (2-3 min) at 20-25C.
3. Add Phase C to batch continue mixing with a high shear mixer at medium speed until batch is uniform.
4. Combine Phase D in order listed with medium prop mixing at 20-25C. Mix until uniform (2-3 min).
5. Slowly add Phase D to Phase ABC with medium shear mixing, increase the shear speed as the solution starts to build viscosity. Mix for 3-4 minutes or until batch is homogeneous. Transfer to closed container.

INGREDIENT	FUNCTION
SiClone™ TD-150	Mirconized Titanium Dioxide dispersion with excellent transparency and UV shielding.
SiClone™ SR-5	Provides volatility and a light silky after feel
Permethyl 246C	Moisturizer, silky after feel
Antileukine 6	Protects DNA against UV-B radiation damage, protects against inflammation.
Spheron L-1500	High oil absorbance, detackifier
Micropoly 230L	Offers creamy and luxurious afterfeel to formula
Zilgel Oil	Superb moisturizer
Oligogeline	Film former and moisturizer
Sea Mayweed SC	Sooths and relaxes skin.

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

APPEARANCE (@25C)	White, semi-solid
pH	5-7
VISCOSITY (@25C)	15,000-30,000 cps (Spindle #6, 10rpm, 1min.)

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