

Presperse Finished Products

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Daily Protect

(Daily Face Cream with SPF)

Formula #: 33-74-4, Date: 4/28/10

WHAT IS IT?	A sunscreen cream for the face that has UV protection with antioxidants and shields against free radicals.
HOW DO YOU USE IT?	Gently massage onto face into skin before sun exposure until dry. Repeat as desired.
WHO SHOULD USE IT?	Anyone seeking daily facial protection that applies easily and absorbs quickly and fights the harmful effects of the sun.
WHAT DOES IT DO?	SiCLONE[®] TD-150 is a silicone-free titanium dioxide dispersion which provides excellent transparency while giving broad UV shielding. AQUPEC[®] HV505E is a water soluble polymer that has thickening and spreadability properties. MT-100WP provides UV protection with excellent water dispersibility. SPHERON[®] LP-230 has a high oil absorbance capacity and detackifies.

Trade Name	INCI Name	Supplier	% W/W
PHASE A			
Deionized Water	Water	N/A	53.27
MT-100WP	Titanium Dioxide (and) Hydrated Silica	Presperse, LLC	0.30
Trilon BD	Disodium EDTA	BASF	0.05
Glycerin 99.7% USP	Glycerin	Jeen International	2.00
AQUPEC HV-505E (2% soln)	Carbomer (and) Water	Presperse, LLC	5.00
PHASE B			
PERMETHYL[®] 246C	C ₁₈₋₂₁ Alkane (and) Polyisobutene	Presperse, LLC	7.00
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
Lipomulse 165	Glyceryl Stearate (and) PEG-100 Stearate	Lipo Chemical	3.20
Lipowax D	Cetearyl Alcohol (and) Ceteareth-20	Lipo Chemical	1.70
Stearic Acid	Stearic Acid	N/A	1.70
PERMETHYL 216C	C ₁₈₋₂₁ Alkane (and) C ₁₃₋₁₆ Isoparaffin	Presperse, LLC	3.00
PHASE C			
TEA 99%	Triethanolamine	Dow Chemical	0.28
PHASE D			
MICROPOLY 230L	Polyethylene	Presperse, LLC	0.50
SPHERON LP-230	Silica	Presperse, LLC	1.00
PHASE E			
PORTULACA EXTRACT	Butylene Glycol (and) Water (and) Portulaca Oleracea Extract	Presperse, LLC	3.00
ANTILEUKINE 6[®]	Caprylic/Capric Triglyceride (and) Laminaria Ochroleuca Extract	Presperse, LLC	2.00
PHASE F			
Euxyl PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	Schülke	1.00



P R O C E D U R E

1. In a main kettle, combine Phase A in the order listed with medium prop mixing. Once uniform, heat to 70-75 °C.
2. In a separate vessel, combine Phase B ingredients and heat to 70-75 °C.
3. Add Phase B to Phase A when both phases are at 70-75 °C and mix until uniform with medium prop mixing.
4. Add Phase C to Phase AB and mix until uniform. Batch will begin to thicken.
5. Add Phase D to Phase ABC at 60-65 °C one ingredient at a time and mix until uniform with medium prop mixing.
6. Cool to 45 °C, add Phase E and mix until uniform.
7. Cool to 40-45 °C, add Phase F and mix until uniform.
8. Cool to room temperature.

INGREDIENT	FUNCTION
ANTILEUKINE 6	Protects DNA against UV-B radiation damage
AQUPEC HV505E	Provides excellent thickening properties with improved spreadability and emulsion stabilization
MICROPOLY 230L	Provides a soft and creamy feel
MT-100WP	Provides protection from UV rays and has excellent water dispersibility and compatibility with carbomers
PERMETHYL 216C	Gives a silky afterfeel with increased playtime.
PERMETHYL 246C	Film formation with cushion and improves barrier properties.
PORTULACA EXTRACT	Anti-inflammatory and anti-irritant
SICLONE TD-150	Provides excellent transparency and UV shielding
SPHERON LP-230	High oil absorption that imparts a silky feel

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

APPEARANCE	White, opaque, semi-solid emulsion
pH	6-7
VISCOSITY	50,000 – 70,000 cps (spindle #62, 20 rpm @ 1 min)

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