

An (approx.) SPF 50 hydrating facial sunscreen with fluid texture. Antioxidant-rich **Activederm RE** boosts the sun protection delivered by potent UV filters **Uvasorb® BMT**, **Uvasorb® DHB**, and **Uvasorb® HEB**. **Sensoderm DBA** and **Activederm RP** enhance the feel, delivering a silky, matte, and non-greasy finish.

		 Components	 INCI Declaration	 %	 Function
Phase I		Deionized Water Disodium EDTA Synthalen® L Hyaluronic Acid ^(A)	Aqua Disodium EDTA Carbomer Sodium Hyaluronate	Up to 100 0.05 0.12 0.10	Solvent Chelating agent Emulsion stabilizer Moisturizer/humectant
Phase II		Sensoderm DBA Activederm RE Octyl Salicylate Synoxyl HSS ^(B) Naturederm DDG Uvasorb® HEB Uvasorb® BMT Uvasorb® DHB Emulsiderm MP1	Dibutyl Adipate Caprylic/Capric Triglyceride (and) Oryza Sativa (Rice) Bran Oil (and) Tocotrienols Ethylhexyl Salicylate Trimethoxybenzylidene Pentanediol Bis-Octyldodecyl Dimer Dilinoleate/Propanediol Copolymer Diethylhexyl Butamido Triazone Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine Diethylamino Hydroxybenzoyl Hexyl Benzoate Glyceryl Stearate (and) Ceteareth-20 (and) Ceteareth-12 (and) Cetearyl Alcohol (and) Cetyl Palmitate	9.50 2.50 5.00 2.00 2.00 3.50 2.50 2.50 2.00	Lightweight solvent Antioxidant-rich emollient UV-B absorber, solvent Photostabilizer, booster Water resistance agent UV-B absorber UV-A/UV-B absorber UV-A absorber Primary emulsifier
Phase III		AMP-95 ^(C) Spectrastat OEL ^(D)	Aminomethyl Propanol Propanediol (and) Ethylhexylglycerin (and) Caprylyl Glycol (and) Caprylhydroxamic Acid	pH 6.5 - 7.0 1.00	Alkali neutralizer Broad spectrum preservative
Phase IV		Activederm RP Yuzu Lemongrass ORC2002384 ^(E)	Oryza Sativa (Rice) Starch Fragrance	4.00 0.10	Matte effect powder Fragrance
Appearance		Opaque off-white fluid			
Viscosity (RV#7 @ 20rpm)		20,000 – 24,000			
pH (as is)		6.0 – 6.5			
Stability		7 days 45C; Passes 10ml 30min @ 3000rpm			

Procedure:

- To the main vessel, add DI Water and EDTA. Mix until uniform. Under high speed agitation, slowly add SYNTHALEN® L. Once initially hydrated, begin heating to 70-75°C. When SYNTHALEN® L is fully dispersed, add Hyaluronic Acid and mix until dispersed.
- In a side vessel, mix SENSODERM DBA, ACTIVEDERM RE, and Octyl Salicylate. Begin heating to 85-90°C. Add Synoxyl HSS and mix at 85-90°C for 30 minutes or until dissolved. When dissolved, add NATUREDERM DDG and mix. Add the crystalline UV filters slowly and mix at 85-90°C for 60 minutes or until dissolved. Add EMULSIDERM MP1 and mix until melted and uniform. Then begin cooling the Phase II premix to 70-75°C.
- With both at 70-75°C, add Phase II to Phase I and mix until uniform. Turn off heat.
- As the temperature declines <50°C, add Phase III materials with thorough mixing.
- Once cooled to 40-45°C, add Phase IV materials. Mix until uniform.
- Homogenize 5 minutes at 3500 rpm.

Sources:

- Maroon Group
- Sytheon
- Advancion
- Inolex
- Orchidia