

OUTDOOR TRINITY PROTECTION FLUID SPF 30 IN VITRO

formula # : 200-10039A

material # : 876581

ingredients (trade name INCI name)		%w/w	supplier
Phase A			
Water/Aqua/Eau	Water	50.5100	Local
Tetrasodium EDTA	Tetrasodium EDTA	0.1000	Local
Phase B			
Ultrathix™ P-100 Polymer	Acrylic Acid/VP Crosspolymer	0.5000	Ashland
Phase C			
Ceraphyl™ 230 Ester	Diisopropyl Adipate	2.0000	Ashland
Escalol™ 517 UV Filter	Butyl Methoxydibenzoylmethane (Avobenzone)	3.0000	Ashland
Escalol™ 587 UV Filter	Ethylhexyl Salicylate (Octisalate)	5.0000	Ashland
Escalol™ HMS UV Filter	Homosalate	10.0000	Ashland
Escalol™ 597 UV Filter	Octocrylene	7.0000	Ashland
Escalol™ S UV Filter	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (Bemotrizinol)	4.0000	Ashland
Phase D			
Dow Corning* FZ-3196	Caprylyl Methicone	6.0000	Dow Corning
Eumulgin* VL 75	Lauryl glucoside (and) Polyglyceryl-2 dipolyhydroxystearate (and) glycerin	4.0000	BASF
NatraGem* E145 NP	Polyglyceryl-4 Laurate/Succinate (and) Aqua	2.0000	Croda
Phase E			
Water/Aqua/Eau	Water	0.5000	Local
Sodium Hydroxide	Sodium Hydroxide	0.0900	Local
Phase F			
Methylparaben NF	Methylparaben	0.2000	Ashland
Optiphen™ ND Preservative	Phenoxyethanol (and) Benzoic Acid (and) Dehydroacetic Acid	1.0000	Ashland
Phase G			
Unicert Yellow 08006-J (1% Solution)	CI 15985 (yellow 6)	0.8000	Sensient Cosmetic Technologies
PF Sunny	Parfum/Fragrance	0.3000	apf arômes & parfums
Blumilight™ Biofunctional	Water (Aqua) (and) Butylene Glycol (and) Theobroma Cacao (Cocoa) Seed Extract	1.0000	Ashland
Elixiance™	Propanediol (and) Water/Aqua (and) Schinus molle Extract /Propanediol (and) Water/Aqua (and) Bioflavonoids	1.0000	Ashland
Gransil PSQ	Polymethylsilsesquioxane	1.0000	Grant Industries
total		100.00	

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Procedure

- 1- Add water into main vessel and add Phase A ingredient at room temperature.
- 2- Sprinkle in phase B and mix well until homogenous.
- 3- Add phase C ingredients to side beaker and heat at 65-70C with stirring until clear then cool down to room temperature.
- 4- At room temperature homogenize Phase C + Phase D.
- 5- Add CD into the main vessel and mix well. The emulsion should be homogenous.
- 6- premix Phase E until clear and add to the main vessel while stirring.
- 7- premix Phase F at 50C until clear and add to the main vessel while stirring.
- 8- Add ingredients of phase G one by one and mix well until homogenous.
- 9- stop at 25C.

typical properties

description: Orange Fluid

pH: 5.5 - 6.0

viscosity: 5000 -11,000 cps

stability/challenge information: This formula passed standard stability protocol and micro challenge testing. The preservative system, however, has not been optimized to its lowest effective level.

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