



Cosmetics

RR 8136

Baycusan® C 1004

Very Water Resistant Cream SPF 50

% by wt.

Phase A	Butyl Methoxydibenzoylmethane	5.00
	Ethylhexyl Salicylate	5.00
	Ethylhexyl Methoxycinnamate	10.00
	Ethylhexyl Triazone	5.00
	Octocrylene	10.00
	Polyglyceryl-6 Stearate (and) Polyglyceryl-6 Behenate ¹⁾	1.00
	C12-15 Alkyl Benzoate	8.00
	Dibutyl Adipate	3.00
	Polyisobutene	1.00
Phase B	Aqua	36.07
	EDTA	0.03
	Glycerin	1.00
	Microcrystalline Cellulose (and) Cellulose Gum ²⁾	0.15
	Acrylates/C10-30 alkyl Acrylate Crosspolymer ³⁾	0.10
Phase C	Tocopheryl Acetate	0.15
	Methylpropanediol (and) Caprylyl Glycol (and) Phenylpropanol ⁴⁾	1.50
	Caprylyl Methicone	1.00
	Tapioca Starch	2.00
	Cyclopentasiloxane (and) Dimethicone	3.00
Phase D	Baycusan® C 1004	7.00
		100.00



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Raw materials

1. Tego® Care PBS 6, Evonik
 2. Avicel® PC 611, FMC Health and Nutrition
 3. Pemulen™ TR-2, Lubrizol
 4. Dermosoft® OMP, Dr. Straetmans
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Processing

Add all ingredients of phase A in a separate vessel and heat to 80°C under stirring. When all ingredients are uniform, cool down. Combine phase B and heat to 50°C. Add phase B to phase A under continuous mixing and cooling. Add phase C under continuous mixing and homogenize. Add phase D and mix until uniform. Check pH, if necessary, adjust pH to pH= 6.0 - 6.5.

Notes

In vivo SPF (International Norm ISO 24444:2010 on 5 volunteers)= 41.8

Very Water resistant formulation according to the COLIPA Guidelines (December 2005).

In vitro UVA PF evaluation with pre-irradiation (ISO 24443 method)= 15.9

Sweat resistant formulation (International Norm ISO 24444:2010 on 5 volunteers)

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