

Cosmetics

RR 8067

Baycusan® C 1000

Sun Lotion SPF 50+

		% by wt.
Phase A	Water	49.00
	Glycerin	2.00
	Acrylates/C10-30 Alkyl Acrylate Crosspolymer ¹⁾	0.25
Phase B	Disodium EDTA	0.10
	Cetyl Alcohol (and) Glyceryl Stearate (and) PEG-75 Stearate (and) Ceteth-20 (and) Steareth-20 ²⁾	3.00
	C12-15 Alkyl Benzoate	5.00
	Propylheptyl Caprylate	4.00
	Ethylhexyl Salicylate	4.00
	Octocrylene	9.00
	Bis-ethylhexyloxyphenol Methoxyphenyl Triazine	2.50
Phase C	Butyl Methoxydibenzoylmethane	4.00
	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum	8.00
	Tocopherylacetate	0.50
	Phenoxyethanol (and) Ethylhexylglycerin ³⁾	1.00
	Ethylhexylglycerin (and) Methylisothiazoline ⁴⁾	0.10
	Baycusan® C 1000	7.50
	Sodium Hydroxide (pH 6.5-7.0)	0.05
	100.00	

Raw materials

- 1) Pemulen™ TR-2, Lubrizol
- 2) Emulium® Delta, Gattefosse
- 3) Euxyl® PE 9010, Schülke & Mayr
- 4) Euxyl® K 220, Schülke & Mayr

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Processing

1. Heat Phase A to 80°C under stirring.
 2. Add all ingredients of phase B in a separate vessel under stirring, while heating to 80°C.
 3. When the phases are uniform, add phase B to phase A. The emulsion is homogenized.
 4. At 25°C add phase C and mix.
 5. Add Baycusan® C 1000 and mix. The emulsion is homogenized.
Adjust pH if necessary with sodium hydroxide to 6.5 – 7.0.
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Notes

In vivo SPF (International test method on 5 volunteers) = 81.9
In vitro UVA-PF (Colipa method, 2011) = 33.6
Water-resistant formulation (Colipa test method on 5 volunteers)

The above formulation is intended solely as a guide for our business partners and others interested in our products. Further, although the ingredients, quantities thereof and properties of compounds or finished goods mentioned herein reflect our recommendation at the time of publication, this guide may not be subject to continuous review and/or updating, and you agree that use is undertaken at your sole risk. All information is given without warranty or guarantee, and it is expressly understood and agreed that you assume, and hereby expressly release us from, all liability, in tort, contract or otherwise, incurred in connection with the use of this guide.

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