



Cosmetics

RR 8073

Baycusan® C 1000 SPF 50

Mineral Sunscreen Lotion SPF 50

	% by wt.
Phase A	Aqua 29.25
	Butylene Glycol 2.00
	Tetrasodium EDTA 0.10
	Arginine 0.20
	Glycerin 3.00
	Cetyl Hydroxyethylcellulose ¹⁾ 0.80
	Xanthan Gum 0.40
	Hydrogenated Lecithin (and) Behenyl Alcohol (and) Palmitic Acid ²⁾ 3.00
Phase B	Isoamyl Laurate ³⁾ 6.00
	C12-C15 Alkyl Benzoate 3.00
	Diisopropyl Adipate ⁴⁾ 4.00
	Caprylyl Methicone ⁵⁾ 3.00
	Caprylic/Capric/Myristic/Stearic Triglyceride ⁶⁾ 2.00
	Bis-Diglyceryl Polyacyladipate-2 ⁷⁾ 1.00
Phase C	Zinc Oxide (and) Neopentyl Glycol Diheptanoate (and) Glyceryl Isostearate (and) Polyhydroxystearic Acid (and) Cetyl PEG-PPG-10/1 Dimethicone ⁸⁾ 20.00
	Titanium Dioxide (and) Alumina (and) Triethoxycaprylylsilane ⁹⁾ 8.00

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Phase D

Dimethicone (and) Dimethiconol	2.00
Vitis Vinifera Seed Extract	2.00
Avena Sativa (Oat) Kernel Extract	1.00
Alpha Bisabolol	0.25
Tocopherylacetat	0.50
Caprylyl Glycol (and) Phenoxyethanol (and) Hexylene Glycol ¹⁰⁾	1.00
Baycusan® C 1000	7.50
	100.00

Raw materials

1. Natrosol® Plus 330, Hercules
2. Distinctive® Emul-lipid LB, Resources of Nature
3. Dermofeel® sensolv, Dr. Straetmanns
4. Schercemol™ Dia, Lubrizol
5. Silsoft 034, Momentive
6. Softisan® 378, Cremer
7. Softisan® 649, Cremer
8. ZinClear® IM 55L7, Dow
9. A10-TiO2-11S7, Kobo
10. Diocide™, Centerchem

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Processing

1. Prepare the water phase. Dissolve ingredients of phase A in water. Add Cetyl Hydroxyethylcellulose and Xanthan Gum with vigorous mixing. Begin heating to 80°C. At 60°C add Hydrogenated Lecithin.
2. Mix until completely uniform at 80°C
3. In a separate vessel combine phase B ingredients. Heat to 80°C. Mix until uniform and add to phase A.
4. Add phase C. Mix until uniform, then homogenize vigorously until lump free.
5. Cool to 40°C. Then add phase D to main batch. Homogenize gently.
6. Cool down to room temperature.
7. Check pH. If necessary adjust pH to 6.0 – 6.5

Notes

In vivo SPF (FDA method) on 5 volunteers = 56.0

In vivo UVA (ISO 24442) on 5 volunteers = 19.6

Very water-resistant formulation (FDA method on 5 volunteers, 80 minutes)

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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