



Product Formulation

Kids Water-Resistant Sunscreen Stick SPF50

PHC-PF-23-035

Protect yourself and your kids from the UV damage with this SPF50 Sunscreen Stick. Made with coconut-derived and sustainable ingredients and reef-friendly actives and is water repellent.

Phase	Ingredient	INCI	Function	%
A1	Cocolatum 503	Cocoglycerides (and) Oryza Sativa Bran Wax (and) Euphorbia Cerifera	Base	25.00
A2	Candelilla Wax	Euphorbia cerifera (Candelilla) Wax	Thickener	13.50
A3	Glyzer CT500	Modified Cocoglycerides	Emollient	18.45
A4	Glyzer CT100	Caprylic/Capric Triglycerides	Emollient	10.00
A5	Dicaprylyl Ether	Dicaprylyl Ether	Emollient	10.00
A6	Ethylhexyl Salicylate	Ethylhexyl Salicylate	UV-B Sunscreen Active	5.00
A7	Ethylhexyl Triazone	Ethylhexyl Triazone	UV-B Sunscreen Active	5.00
A8	Titanium Dioxide	Titanium Dioxide	UV-A/B Sunscreen Active	9.00
A9	Zinc Oxide	Zinc Oxide	UV-A/B Sunscreen Active	3.00
A10	Capryloyl Glycerin/Sebacic Acid Copolymer	Capryloyl Glycerin/Sebacic Acid Copolymer	Film former	1.00
A11	Vitamin E Acetate	Vitamin E Acetate	Antioxidant	0.05
TOTAL				100.00

Formulation Benefits

- ✓ Reef-friendly
- ✓ SPF50, PA+++; Broad Spectrum Protection
- ✓ Minimal white cast
- ✓ Very convenient form, for kids 5 and up

Key Ingredients

Cocolatum 503

- ✓ 100% Plant Derived
- ✓ Vegan petroleum jelly alternative
- ✓ Contains lauric acid
- ✓ ISO 16128: 100%

Glyzer CT500

- ✓ Moisturizing
- ✓ Easy to apply on skin
- ✓ Derived from natural source
- ✓ ISO 16128: 100%

Glyzer CT100

- ✓ Outstanding spreadability and not greasy
- ✓ Derived from natural source and biodegradable
- ✓ Mild; suitable for sensitive and oily skin
- ✓ ISO 16128: 100%

All data, formulations and information provided herein have not been comprehensively tested and are not represented as suitable for any particular uses. Statement concerning possible or suggested uses made herein may not be relied upon or be construed as a guaranty of no patent infringement. Users have the sole responsibility and obligation for making preliminary tests to determine the suitability of the sample formulations described herein for any application, to make tests before use in any specific applications, and to confirm the performance, efficacy, safety and regulatory compliance of such products for their particular use.

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Procedure

- 1 In the main mixing container, homogenize zinc oxide and titanium dioxide in **Glyzer CT500**, **Glyzer C100**, and Dicaprylyl Ether. Regularly check for undispersed powders before moving to the next step.
- 2 Add UV filters while mixing at 400rpm. Start heating at 70°C.
- 3 Add candelilla wax and **Cocolatum 503**. Mix occasionally until melted. Remove from heat.
- 4 Add remaining ingredients and mix until homogenous.

Specification

Appearance	White stick
pH (as is)	n/a
SPF	50**

**NOTE: Result not verified.

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