



Product Formulation

Sunscreen Stick

PHC-PF-23-093

This chemical sunscreen stick provides effective SPF 30 protection with a skin-feel that is lighter compared to traditional face & body stick sunscreen formulations.

Phase	Ingredient	INCI	Function	%
A1	Glyzer CT500	Modified Cocoglycerides	Emollient	20.00
A2	Glyzer CT600	Tricaprylin	Emollient	27.70
A3	Cocolatum 503	Cocoglycerides (and) <i>Euphorbia cerifera</i> (Candelilla) Wax (and) <i>Oryza sativa</i> (Rice) Bran Wax	Emollient	5.00
A4	Ozokerite Wax	Ozokerite	Thickener	8.00
A5	Modified Beeswax	<i>Cera alba</i> (and) Stearyl Stearate (and) Cetyl Palmitate (and) Paraffin	Thickener	6.00
A6	Sunflower Wax	<i>Helianthus annuus</i> (Sunflower) Seed Wax	Thickener	0.75
B1	Homosalate	Homosalate	UV Filter	10.00
B2	Octyl Salicylate	Octyl Salicylate	UV Filter	5.00
B3	Octocrylene	Octocrylene	UV Filter	10.00
B4	Avobenzene	Avobenzene	UV Filter	2.50
C1	Tapioca Starch (and) Polymethylsilsesquioxane	Tapioca Starch (and) Polymethylsilsesquioxane	Sensory Modifier	3.00
C2	Wheat Germ Oil	<i>Triticum vulgare</i> (Wheat) Germ Oil	Skincare Active	0.25
C3	Sunflower Seed Oil	<i>Helianthus annuus</i> (Sunflower) Seed Oil	Skincare Active	0.25
C4	Mixed Tocopherols	Tocopherol	Anti-oxidant	0.05
C5	Ferulic Acid	Ferulic Acid	Anti-oxidant	1.50
TOTAL				100.00

Formulation Benefits

- ✓ Light stick formulation
- ✓ Chemical sunscreen
- ✓ Silky skinfeel, non-greasy
- ✓ Petrolatum-free

Key Ingredients

Glyzer CT600

- ✓ Dry-oil skinfeel
- ✓ Best as carrier of fragrance and essential oils
- ✓ ISO 16128: 100%



Glyzer CT500

- ✓ Best in solubilizing UV filters and dispersing pigments and shimmers
- ✓ Moisturizing and suitable for sensitive skin
- ✓ ISO 16128: 100%



Cocolatum 503

- ✓ 100% Plant Based and Vegan
- ✓ Outstanding spreadability
- ✓ Silky skin-feel
- ✓ ISO 16128: 100%



Raw material verified by ECOCERT GREENLIFE, conform to the COSMOS Standard

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.

NATURA AEROPACK CORPORATION

First Industrial Township, Special Economic Zone FIT-SEZ, Brgy. Pagaspas, Tanauan, Batangas, Philippines 4232

☎ (+632) 8635 0680 📠 (+632) 8635 0703 ✉ info@natura-aeropack.com 🏠 <https://natura-aeropack.com>



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Procedure

- 1 Load A1 to A3, heat to 80-85°C with continuous mixing.
- 2 Add the waxes and mix until homogeneous. Gently lower the temperature to 70°C.
- 3 Add the UV filters of Phase B one by one with continuous mixing until homogeneous.
- 4 Add Phase C and mix until homogeneous.
- 5 At 70°C, immediately fill into the desired stick packaging and allow to set for 24 hours.

Specification

Appearance	Translucent solid
Color	Pale yellow
Density	0.95 – 0.99

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