



# Product Formulation

## Kids' Curly Hair Shampoo

PHC-PF-22-050

This gentle foaming emulsion is meant for kids with curly hair. It has moisturizers which define the curl while drying and a selection of gentle surfactants for an effective wash.

Phase	Ingredient	INCI	Function	%
A1	Water	Aqua	Solvent	57.4
A2	Sodium Cocoyl Isethionate	Sodium Cocoyl Isethionate	Surfactant	8
A3	Sufrosoft CB30	Cocamidopropyl Betaine	Co-Surfactant	10
A4	Suframide HF850	Cocamide MEA	Foam Booster	4
A5	Alkyl Polyglucoside	Lauryl Glucoside (and) Ethanol	Co-Surfactant	2
B1	Glysoft RG	Glycerin	Humectant	2
B2	Hydroxypropylmethylcellulose	Hydroxypropyl Methylcellulose	Thickener	0.3
B3	Guar Gum	Guar Hydroxypropyltrimonium Chloride	Thickener	0.25
C1	Glyzer CB100	<i>Cocos nucifera</i> (Coconut) Seed Butter	Emollient	0.5
C2	Glyzer CT200	Caprylic/Capric/Lauric Triglyceride	Emollient	0.5
C3	Cetyl Alcohol	Cetyl Alcohol	Emollient	1.75
D1	Silk Hair Active	Hydrolyzed Silk	Haircare Active	1
D2	Pearlux PB40	Glycol Distearate (and) Sodium Laureth Sulfate (and) Laureth 10 (and) Cocamide MEA	Pearlizing Agent	10
D3	Fragrance		Fragrance	0.3
D4	Vitamin E Acetate	α-Tocoperyl acetate	Anti-oxidant	0.5
D5	NatPro 9000	Glyceryl Caprylate (and) Glyceryl Caprate (and) Glyceryl Laurate (and) Caprylhydroxamic Acid	Preservative, pH adjuster	1.5
<b>TOTAL</b>				<b>100.00</b>

### Formulation Benefits

- ✓ Formulated for brittle curls
- ✓ Gentle foam
- ✓ Moisturizing oils
- ✓ Curl-defining
- ✓ Natural

### Key Ingredients

#### Pearlux PB40

- ✓ Cold processable
- ✓ Naturally derived
- ✓ Does not decrease foam or viscosity
- ✓ ISO-16128: 90% Natural

#### NatPro 9000

- ✓ Natural preservative
- ✓ Broad-spectrum action
- ✓ Co-emulsifier and superfatting
- ✓ Derived from natural source
- ✓ ISO-16128: 98.0% Natural



#### Suframide HF850

- ✓ Nitrosamine-free
- ✓ Stabilizer
- ✓ Excellent foam & viscosity building
- ✓ ISO-16128: 77% Natural



Raw material verified by ECOCERT GREENLIFE, conforms 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.

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## Procedure

- 1 Load Phase A in a vessel and mix slowly to prevent bubbles.
- 2 In a separate vessel, disperse HMPC and Guar in Glysoft RG. This shall be Phase B.
- 3 In another vessel, dispense **Glyzer CB100**, **Glyzer CT200** and Cetyl Alcohol. Melt until temperature reaches 60 to 70°C.
- 4 Mix Phase B into Phase A. Once homogeneous, heat until temperature reaches 70°C.
- 5 Gradually add Phase C into the mixture of Phase A and B. Mix until homogeneous and opaque, then begin cool down.
- 6 Once temperature reaches 40° or lower, add ingredients in Phase D one by one while mixing.

## Specification

Appearance	Thick, pearlized liquid
Color	May vary depending on the fragrance used
pH	5.5 to 6.5

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