



# Product Formulation

## 2-in-1 Shampoo and Conditioner for Kids

PHC-PF-22-084

This 2-in-1 shampoo and conditioner for kids is made to make children's shower routine a lot more convenient by merging two steps into one. It's more gentle on kids' scalp by the inclusion of conditioners into the formula.

Phase	Ingredient	INCI	Function	%
A1	Water	Aqua	Diluent	qs
A2	Methylglycinediacetic Acid	Methylglycinediacetic Acid	Chelating Agent	0.20
<b>A4</b>	<b>Glysoft RG</b>	<b>Glycerin</b>	<b>Humectant</b>	<b>1.00</b>
A5	Cationic Guar	Guar Hydroxypropyltrimonium Chloride	Hair Conditioner	0.20
A6	Xanthan Gum	Xanthan gum	Thickener	0.40
A7	Citric Acid, 50% solution	Citric acid	pH Adjuster	0.25
<b>B1</b>	<b>Sufrosoft AO100</b>	<b>Cocamidopropylamine Oxide</b>	<b>Conditioning agent</b>	<b>2.00</b>
<b>B2</b>	<b>Sufravon 869</b>	<b>Potassium Cocoate</b>	<b>Primary surfactant</b>	<b>21.75</b>
B3	Alkyl Polyglucoside	Lauryl Glucoside	Secondary surfactant	18.00
<b>B4</b>	<b>Pearlux EGDS 50</b>	<b>Glycol Distearate</b>	<b>Pearlizing agent</b>	<b>1.50</b>
<b>B5</b>	<b>Glysoft SF</b>	<b>Cocoglycerides</b>	<b>Emollient</b>	<b>1.50</b>
C1	Tocopheryl Acetate	Tocopheryl Acetate	Antioxidant	0.50
C2	Preservative	Methylchloroisothiazolinone (and) Methylisothiazolinone	Preservative	0.10
C3	Fragrance	Fragrance	Fragrance	0.30
<b>TOTAL</b>				<b>100.00</b>

### Formulation Benefits

- ✓ Convenient
- ✓ With natural conditioning actives
- ✓ Sulfate-free
- ✓ Moisturizing

### Key Ingredients

#### SUFRASOFT AO100

- ✓ Biodegradable and non-hazardous
- ✓ Stable over a wide pH range
- ✓ Sulfate-free
- ✓ ISO-16128: 63%



#### SUFRAVON 869

- ✓ 100% plant-derived
- ✓ Excellent foaming and cleansing
- ✓ Built-in moisturizer
- ✓ Compatibility with all types of surfactants
- ✓ ISO-16128: 89%



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 Mix water and chelating agent capsules and begin stirring.
- 2 In a small container, disperse xanthan gum and guar gum in **Glysoft RG** until homogeneous. Slowly add this into the water vessel in small amounts while stirring.
- 3 Begin heating water vessel to 70°C. Once satisfactorily homogenized, put away to cool and read pH. Add citric acid to partially neutralize guar in solution, then put back on hot plate.
- 4 In a separate container, mix and heat all of phase B to 70°C and slowly stir until EDGS is melted. A clear surfactant mixture should result.
- 5 Once both water and surfactant vessels are at 70°C, add the water vessel contents into the surfactant vessel. Continue stirring on heat until the mixture becomes clear to translucent.
- 6 Begin cool down to < 40°C while maintaining mixing and add phase C successively.
- 7 Continue stirring until room temperature is achieved, and a viscous, pearlized product is obtained.

## Specification

Appearance	Viscous, pearlized liquid
Color	White
pH	7.5

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