



A GENTLE CLEANSING with A PEARL TOUCH

For Personal Care Formulations

PEARL-ESSENCE BABY SHAMPOO

This formulation is a mild silicone-free pearled baby shampoo with hypoallergenic surfactants.

MACKERNIUM® HQ-400 & GQ-C130S are key to the consumer use experience of this formula - providing slip, softness and detangling. This sulfate-free formulation taps into the strengths of the Verdant product portfolio, using ingredients that provide sensory and moisturization benefits with MACKERNIUM® HQ-400 & GQ-C130S, elevate the appearance with a pearled effect using MACKESTER® EGDS or GDSV, and deliver mildness and foam with MACKAM® ULTRA C-32 & MACKOL™ DG surfactants.

BENEFITS

- Mild
- · Silicone-Free
- Sulfate-Free

TYPICAL PROPERTIES

Appearance at 25 °C: Pearled Liquid Viscosity at 25°C, cps: 3,000 – 5,000

pH at 25°C: 6.0 - 7.5

Ingredients	Function	% ^w / _w	Proc
Water	Carrier	q.s. to 100	Slowi MAC 400
MACKERNIUM® HQ-400	Conditioner	0.3	
MACKERNIUM® GQ-C130S	Conditioner	0.2	Heat
MACKAM° ULTRA C-32	Mild Surfactant	25.0	Add I GQ-0 Taura MAC & MA Mix w each
MACKOL® DG	Surfactant	16.0	
Sodium Methyl Cocoyl Taurate (30%)	Sulfate-free Surfactant	7.0	
Glycerin	Humectant	2.5	
Sodium Cocoyl Isethionate	Sufate-free Surfactant	2.0	Begir At <5
MACKESTER® EGDS or MACKESTER® GDSV	Pearlizer	1.5	MAC MG E
MACKOL™ DG & MG DOE A120KC*	Foam Density	2.0	each
MACKAMIDE° CPA	Foam Stability	1.0	Slowl
Panthenol (optional)	Moisturizer	0.2	ingre pH w
Sodium Benzoate	Preservative	As needed	Piiw
Fragrance	Fragrance	As desired	
Citric Acid, dilute	pH adjuster	Adjust to 6.0 - 7.5	

	Process
0	Slowly add MACKERNIUM® HQ- 400 powder to water.
	Heat to 73 - 75°C.
	Add MACKERNIUM® GQ-C130S, Glycerin, Taurate, Isethionate, MACKESTER® GDSV, & MACKAMIDE® CPA. Mix well between each addition.
	Begin to cool. At <50°C, add MACKOL™ DG & MG DOE A120KC. Mix well between each addition.
d d	Continue cooling slowly. Add balance of ingredients, and adjust pH with citric acid.

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info@verdantspecialty.com www.verdantspecialty.com