



# Formulation

Name	<b>HEAD-TO-TOE BAR SOAP FOR BABY CARE</b>	
No.	1586	
Description	This sulfate-free syndet soap bar is developed for the care and cleaning of babies from head to toe. It's mild surfactants provide softness for regulars use.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	=== Phase 1 ===	
	NINOL® CAA	24.00 Surfactant
	Stearyl Alcohol	20.00 Structurant
	STEPAN-MILD® GCC	7.50 Emollient
	=== Phase 2 ===	
	LATHANOL® LAL POWDER	48.00 Surfactant
	=== Phase 3 ===	
	Kids I (FAV 105)	0.50 Fragrance
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>1. In main container, add the ingredients (NINOL® CAA, Stearyl Alcohol and STEPAN-MILD® GCC) and heat at 80°C to 85°C (176°F to 185°F) with mixing. Mix to homogenize.</li> <li>2. While stirring, carefully add the LATHANOL® LAL POWDER and homogenize. Keep mixing and hold temperature until homogenization is complete.</li> <li>3. Add the Kids I (fragrance) into the main container with mixing and homogenize.</li> <li>4. Pour off batch into silicone molds and let cool to room temperature so that the soap bar can form.</li> </ol>	
Physical Properties	Appearance, as is	Off-white solid
	pH, 1% aqueous	5.5 - 6.5
	Melting Point, °C (°F)	95 - 110 (203 - 230)
Storage/ Stability	12 weeks at 5°C	Stable
	12 weeks at 25°C	Stable
	12 weeks at 45°C	Stable
	Freeze/Thaw, 3 cycles	Pass
Instructions for Use	Apply to bar to wet skin and lather. Rinse with water.	
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