

# Formulation

Name	<b>HEAD-TO-TOE BABY SHAMPOO WITH NATURAL PRESERVATIVE</b>	
No.	1575	
Description	This shampoo is developed for the care and cleaning of babies from head to toe, providing softness for regular use.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	=== Phase 1 === Deionized Water	77.25 Solvent
	Disodium EDTA	0.05 Chelating Agent
	Glycerin	2.00 Humectant
	Polyquaternium-7	0.50 Conditioning Agent
	=== Phase 2 === PEG-150 Distearate	0.50 Thickener
	=== Phase 3 === STEPAN-MILD® 30 SF	17.00 Surfactant Blend
	=== Phase 4 === Spectrastat™ PHL (Inolex)*	2.00 Preservative
	Kids I (FAV 105)	0.50 Fragrance
	Chamomilla Recutita Flower Extract	0.20 Active
	<b>Total</b>	<b>100.00</b>
Procedure	<p>1. In main container, add the ingredients (Deionized Water, Disodium EDTA, Glycerin, Polyquaternium-7) individually, mixing and homogenize after each addition. Heat this phase to 70°C to 75°C (158°F to 167°F).</p> <p>2. Add the PEG-150 Distearate into main container and homogenize. Hold the temperature and mix for 10 minutes. After this time, begin to cool the batch down at 40°C (104°F).</p> <p>3. Once below 40°C (104°F), add the STEPAN-MILD® 30 SF and homogenize. Keep mixing until homogenization is complete.</p> <p>4. Add the remaining ingredients (Spectrastat™ PHL, Kids I (Fragrance), Chamomilla Recutita Flower Extract) individually into the main container, mixing and homogenize after each addition.</p> <p>*Note: Spectrastat™ PHL supplied by Inolex has the following INCI Name: Caprylhydroxamic Acid (and) 1,2-Hexanediol (and) Propanediol.</p>	
Physical Properties	Appearance at 25°C	Yellowish, viscous clear liquid
	pH, as is	5.5 - 6.5
	Viscosity at 25°C, cps (Brookfield LVDV, spindle 63, 20rpm, 1 minute)	2,500 - 3,500
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 wet skin and lather. Rinse with water.

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STEPAN-MILD®

For  
Additional  
Assistance

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or +33 476 505 100 (Europe).  
For ordering assistance, call our Account Service Department at 1-800-457-7673.

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