


Formulation

Name	BATH JELLY	
No.	1579	
Description	This jelly solid soap formulation provides gentle cleansing for the face and body, in addition to bringing a different sensory experience to the bath.	
Formulation	<p>INGREDIENTS:</p> <p>=== Phase 1 === Deionized Water Disodium EDTA</p> <p>=== Phase 2 === Propylene Glycol Glycerin GENUVISCO® Carrageenan CG-131 (CP Kelco) Carrageenan</p> <p>=== Phase 3 === Deionized Water BIO-TERGE® AS-40 HP MAPROSYL® 25G-HP AMPHOSOL® CS-50 Teens Care (Mane) Citric Acid (50% Solution)</p> <p>=== Phase 4 === Microcare® PHDG (Thor) Phenoxyethanol (and) Decylene Glycol (and) Caprylyl Glycol</p> <p>Total</p>	<p><u>% by Weight</u> <u>Functionality</u></p> <p>20.65 Solvent 0.05 Chelating Agent</p> <p>5.00 Humectant 30.00 Humectant 3.00 Rheology Modifier</p> <p>10.00 Solvent 15.00 Surfactant 5.00 Surfactant 10.00 Surfactant 0.50 Fragrance q.s. pH Adjuster</p> <p>0.80 Preservative</p> <hr/> <p>100.00</p>
Procedure	<ol style="list-style-type: none"> 1. In the main container, add ingredients (Deionized Water, Disodium EDTA) and mix to homogenize. Heat to 90°C-95°C (194°F-203°F). 2. In an auxiliary container, add the following ingredients with mixing: Propylene Glycol, Glycerin, and GENUVISCO® Carrageenan CG-131. Mix until incorporated. 3. Carefully add the ingredients from auxiliary container into the main container under mixing. Keep mixing and maintain temperature at 90°C-95°C (194°F-203°F). 4. In another separate auxiliary container prepare Phase 3 by adding the following ingredients one at a time with mixing: Deionized Water, BIO-TERGE® AS-40 HP, MAPROSYL® 25G-HP, AMPHOSOL® CS-50, and Teens Care (Fragrance). Mix to homogenize. 5. Adjust the pH of Phase 3 ingredients using Citric Acid (50% Solution) to a pH range of 5.5 to 6.5. 6. Heat the Phase 3 ingredients to 75°C-80°C (167°F-176°F). 7. Once up to temperature, carefully add Phase 3 ingredients into the main container slowly with slow mixing. Keep mixing and adjust temperature to 90°C-95°C (194°F-203°F). 8. Add the Microcare® PHDG to the batch with mixing and homogenize. 9. Immediately pour the formulation into the appropriate mold to cool to room temperature. 	
Physical	Appearance at 25°C	Clear, yellowish, solid jelly

Properties	pH, 10% aqueous	5.5 - 6.5
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	Wet hands and place jelly into hands. Lather and apply to skin. Rinse skin with water.	
External Comment	*As of August 5, 2024, R&D has reported that this formulation has been stable for 2 weeks. Full stability testing is expected to be completed in 10 weeks (beginning of October 2024).	
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