

Formulation

Name	GENTLE CLEANSING BODY WASH WITH MAPROSYL® 30-MP	
No.	1421	
Description	If you need some moisturization in your daily body wash, use this sulfate-free cleanser formulated with STEPAN-MILD® L3, a natural moisturizing agent, which replaces synthetic silicones. Squeeze it onto a shower pouf or directly to your hands and enjoy the rich, creamy lather. This formulation is suitable for the Asia Pacific region.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.00 Diluent
	MAPROSYL® 30-MP	17.00 Surfactant
	STEPAN-MILD® PCL-BA	29.00 Surfactant
	AMPHOSOL® CDB-HP	11.00 Secondary Surfactant
	Methyl Gluceth DOE 120KC (KCI Limited) PEG-120 Methyl Glucose Dioleate	1.00 Rheology Modifier
	=== Phase 2 ===	
	Tween™ (Pan Asia Chemical Corporation) Polysorbate 20	1.00 Solubilizer
	STEPAN-MILD® L3	0.50 Moisturizing Agent
	DPG (Spectrum Chemical Mfg. Corp.) Dipropylene Glycol	1.00 Solvent
	Fragrance (Tokyo Chemical Industry)	0.50 Fragrance
	=== Phase 3 ===	
	Euxyl® PE 9010 (Schülke & Mayr GmbH)**	0.25 Preservative
	Citric Acid (50% Solution)	q.s. pH Adjuster
	Sodium Chloride	q.s. Viscosity Adjuster
	Total	100.00
Procedure	<ol style="list-style-type: none"> 1. Add Deionized Water to a suitable vessel equipped with heating and agitation capabilities. 2. Add MAPROSYL® 30-MP, STEPAN-MILD® PCL-BA and AMPHOSOL® CDB-HP with mixing. 3. Start heating to 60°C (140°F). 4. At 60°C (140°F), add Methyl Gluceth DOE 120KC with mixing until clear and begin cooling to 45°C (113°F). 5. In a separate vessel, premix Tween™ 20, STEPAN-MILD® L3, DPG and Fragrance. 6. Add this premix to the batch. Mix until all is dissolved and clear. 7. Cool to room temperature. 8. Check pH (adjust with Citric Acid, 50% Solution if needed), and add Euxyl® PE 9010. 9. Adjust viscosity with Sodium Chloride if desired. <p>**Note: The INCI name for Euxyl® PE 9010 supplied by Schülke & Mayr GmbH is Phenoxyethanol (and) Ethylhexylglycerin.</p>	
Physical Properties	Appearance, as is	Clear viscous liquid
	pH at 25°C, as is	5.5 - 6.5
	Viscosity at 25°C (LVT #3 at 12 rpm), cps	2,000 - 3,000
Storage/	12 weeks at 5°C	Stable

Stability	12 weeks at 25°C 12 weeks at 45°C Freeze/Thaw 3 cycles	Stable Stable Pass
Instructions for Use	Squeeze body wash onto a wet pouf or washcloth and work into a rich, creamy lather.	
External Comment	Marketing Notes: BCI = 87. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other non-Stepan ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com . "Natural" is the Stepan-approved language to describe products that have a BCI of 100 (STEPAN-MILD® L3 has a BCI = 100).	
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Revision Date: 02/28/2023 Publication Date: 02/28/2023 © 2023, Stepan Company. All rights reserved.