



# Gentle Sulfate-Free Foam Cleanser

*Gentle foam cleanser with high gloss, creamy texture, and easy spreadability*

Solstice® Propellant (HFO-1234ze(E)) is a breakthrough for aerosol-based products. A nonflammable<sup>1</sup> alternative to hydrocarbons and high global warming potential (GWP) hydrofluorocarbons, it is non-ozone-depleting, VOC-exempt (U.S. EPA and CARB)<sup>2</sup>, with an **Earth-friendly** ultra-low GWP of less than 1.

PHASE	TRADE NAME	INCI	WT%
Concentrate	DI Water	Water	65.3
	Miracare® SOFT 313	Sodium Cocoyl glycinate; Disodium Lauroamphoacetate; Cocamidopropyl Hydroxysultaine; Lauric acid	25
	Rheomer® 33T	Polyacrylate-33	3.5
	Soybean Oil	Glycine Soja (Soybean) Oil	5
	euxyl® PE 9010	Phenoxyethanol; Ethylhexylglycerin	0.5
	Tween™ 20	Polysorbate 20	0.5
	Fragrance	Fragrance	0.2
		<b>TOTAL</b>	<b>100</b>
Aerosolized	Concentrate		90
	<b>Solstice Propellant</b>	Tetrafluoropropene	10
		<b>TOTAL</b>	<b>100</b>

<sup>1</sup>ASTM E-681, EU A11

<sup>2</sup>Negligible contribution to smog formation

## FORMULATION PROCEDURE:

### Concentrate:

1. In a main beaker, weigh Water and Rheomer 33T. Mix until uniform.
2. While mixing, add Miracare SOFT 313 and the batch should thicken.
3. Add the rest of the ingredients in the order of addition. Mix until uniform.

### Aerosolized:

1. Fill liquid concentrate into aluminum/ plastic cans in the order of addition.
2. Crimp valve on can.
3. Charge with Solstice Propellant.
4. Shake the can vigorously until uniform.

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 Rheomer® 33T and Miracare® SOFT 313 are registered trademarks of Solvay Novecare.  
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 Tween™ 20 is a registered trademark of Croda Inc.

**For more information:**  
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 or your local sales office.

[www.hwll.co/personalcare](http://www.hwll.co/personalcare)

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