



# 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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 Tween™ 20 is a registered trademark of Croda Inc.

**For more information:**  
 call 800-631-8138  
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 or your local sales office.

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

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