

# Moisturizing Body Wash

CL-B0015

This bath gel contains **SilSense™ \* DW-18 Silicone**, which is easily incorporated into salt-thickened formulations without the need for stabilization. This silicone ester delivers a soft and silky feel to the skin without interfering with the thick, rich foam.

|     | <b>INCI Name, Trade Name</b>   | <b>Weight %</b> | <b>Function</b> |
|-----|--|-----------------|-----------------|
| 1.  | Deionized Water  | 23.28           | Diluent         |
| 2.  | Disodium EDTA,<br><i>Protacide NA-2</i>  | 0.05            | Chelating Agent |
| 3.  | Sodium Laureth Sulfate (28%, 1 mole),<br><b>Sulfochem™ * ES-1 Surfactant</b>               | 60.00           | Surfactant      |
| 4.  | Cocamide MEA (100%),<br><b>Amidex™ * CME Surfactant</b>                                    | 1.00            | Surfactant      |
| 5.  | Cocamidopropyl Betaine (35%),<br><b>Chembetaine™ * CGF Surfactant</b>                      | 5.40            | Surfactant      |
| 6.  | Dimethicone PEG-7 Isostearate,<br><b>SilSense™ * DW-18 Silicone</b>                        | 1.00            | Conditioner     |
| 7.  | Deionized Water  | 8.00            | Diluent         |
| 8.  | Benzophenone-4,<br><i>Uvinul® MS-40</i>  | 0.05            | UV Absorber     |
| 9.  | Phenoxyethanol, Methyl-, Ethyl-, Butyl-, Propyl-, and Isobutylparaben,<br><i>Phenonip®</i> | 0.50            | Preservative    |
| 10. | <b>FD&amp;C Blue No. 1 (0.1%)</b>  | 0.30            | Dye             |
| 11. | <b>FD&amp;C Yellow No. 5 (0.1%)</b>  | 0.07            | Dye             |
| 12. | Sodium Hydroxide (18%) or Citric Acid (50%)  | ~0.15**         | Neutralizer     |
| 13. | Sodium Chloride  | 0.20            | Thickener       |

\*\*q.s. to pH 5.9 – 6.2

## **Procedure:**

1. Dissolve Disodium EDTA in Ingredient #1 (Deionized Water) using low heat.
2. Add Sodium Laureth Sulfate.
3. Heat blend to 70-75°C.
4. Add Cocamide MEA and mix until uniform.
5. Discontinue heating.
6. Add Cocamidopropyl Betaine and **SilSense™ \* DW-18 Silicone**.
7. Pre-mix Benzophenone-4 with Ingredient #7(Deionized Water), and add to batch when <40°C.
8. Add preservative.
9. Add dyes.
10. Adjust pH to 5.9 – 6.2, using either sodium hydroxide or citric acid.
11. Sprinkle in sodium chloride very slowly. Mix until uniform.

## **Product Properties:**

Appearance Clear, aquamarine gel

pH 5.9 – 6.2

Viscosity, (mPa·s)\*\*\* 6,000 – 10,000

Turbidity\*\*\*\* (NTU) 0 – 10

Stability: Passed 3 months @ 45°C, 5 cycles freeze/thaw

Surfactant Actives (%) 18.9

\*\*\* Brookfield RVT @ 20 rpm, 25°C, Spindle #6, measured after 24 hours

\*\*\*\* HF Scientific, Inc., Micro 100 Turbidimeter

**Supplier References:**

Protameen (2)

**Noveon, Inc. (3, 4, 5, 6)**

BASF (8)

Clariant Corporation (9)

**Noveon Hilton Davis (10, 11)**

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