

PROCESSING CONDITIONS FOR BODY WASH BASE (CERTIFIED 81.98 % ORGANIC INGREDIENTS)

Like all water based personal care products, Body Wash Base is susceptible to microbial contamination. Good hygiene and manufacturing practices must be carried out when using this product at all times.

CONVERTING BODY WASH BASE INTO THICKENED FINISHED PRODUCT

- 1: Make up a 25% *salt solution in warm deionised or softened water:
 - Warm the deionised or softened water. (The warmer it is, the faster the salt will dissolve.)
 - Turn agitator on.
 - Add salt.
 - Stir until salt is fully dissolved and you have a clear solution.

*** Please note.** To gain Organic certification salt tablets that do not contain anti-caking agents should be used. If you do not use deionised or softened water (i.e. tap water) then the body wash will turn cloudy.

- 2: To a sterilised vessel with a suitable stirrer (preferably with variable speed), lid and heater add the Body Wash Base.
- 3: To speed up the time it takes to dissolve the essential oils, pre-warm the Body Wash Base to 30 - 35°C. With the stirrer on, add the organic essential oils as required (typically add 0.3 – 0.5%). Stir for 10 – 15 minutes, or until the essential oils are fully dispersed and in some cases fully dissolved.

**** Please note.** Due to the nature of this Body Wash, which is derived from several natural and organic ingredients, additives such as some essential oils can turn it very cloudy. Over time some of these ingredients may slowly dissolve so that the product looks slightly clearer, but others can agglomerate and make the product look hazy or not homogenous. Although the appearance may not be aesthetically appealing the product can be perfectly functional. Stability testing should be performed.

- 4: Pre-warming to 30 - 35°C will aid stirring and make the salt solution disperse more quickly. With stirrer on slow, add *** 25% salt solution to the vortex created by the stirrer. Mix until homogeneous and thickened.
- 5: Check viscosity against the desired specification

- 6:** Add extra salt solution if required. Further adjustments should be made in increments of around 0.2 - 0.4% of 25% salt solution.

***** Please note**

Laboratory trials should first be carried out to determine how much salt solution is required.

As a ballpark guideline, typically 4 – 8 % of a 25% salt solution should thicken the product to around 5,000 – 20,000 cps Brookfield Viscometer, spindle 3 @ 6 rpm @ 25°C.

FILLING OF THICKENED BODY WASH

- 1:** Before filling the processed thickened Body Wash, it is advisable that it should pass microbiological testing.
- 2:** The viscosity of a salt thickened Body Wash is greatly affected by temperature. The colder it is the thicker it becomes. The filling temperature should be considered, and typically would be around 15 - 30°C.
- 3:** The filled product should pass microbiological testing.

Please note: due to the nature of this Body Wash, and the possibility of developing a cloudy or non-homogenous appearance with certain additives, it is advisable not to fill into clear packaging.

INFORMATION FOR CALCULATION OF % ORGANIC INGREDIENTS
BY SOIL ASSOCIATION CERTIFICATION LTD

Body Wash Base has:

- 34.07g Dry Weight of Ingredients.
- 81.98% Total Organic Ingredients (i.e. % of the dry weight)
- 65.63g Added Water.