

## Chemistry Connection BNB Shampoo Concentrate

### Formulations

It is best to start with sterilized metal or glass bowls, mixing and measuring tools. Make sure counter space is clean. Before starting wipe down with a light solution of bleach in water.

You will need to measure all ingredients – so you need a good electronic scale. Set the scale for either ounce or gram measurements. Measure your ingredients in the quantities listed in either ounces or grams.

To get started you need to choose your batch size. See below:

Remember, measurements are listed by weight NOT fluid ounces.

Ingredients:	50oz Batch		100oz Batch	
	Oz	Gram	Oz	Gram
BNB Concentrate	15	420	30	840
Fragrance or Essential Oil	0.23	6.5	0.46	13
Distilled Water	34.2	958	68.4	1916
Perservative	0.43	12	0.86	24
Salt	1	28	2	

Mix products in the order listed one at a time and stir completely after each product is added. After adding the salt, mix together for 2-3 minutes using gentle agitation with mixing spoon.

Product will produce copious amounts of dense, creamy lather that rinse away easily and completely

By adjusting the quantity of Blend BNB with our conditioning additive and/ or our liquid pearl at various percentages, several different products can be produced; each having different characteristics and levels of cost effectiveness.

Salt is added at the end of the formulating typically- and it is used to thicken the product(s) But keep in mind – too much salt will make the product CLOUDY – and THIN IT OUT.

Adjust pH if required.

\*One way to add salt – is in solution: Dissolve 1 part salt to 2 parts hot water. Parts are determined by weight, (example: 1oz/28 gm salt to 2oz/56gm water. Add this mixture a little at a time to increase viscosity. Trials will be needed to establish the correct amount to add. Normal usage levels are 5-6% of the total formulation weight

Blend BNB is not designed to be used undiluted. It should be diluted as per our guidelines; undiluted form may cause skin irritation.

## **Starting Formulation for a Premium Shampoo Using BNB Concentrate**

**Ingredients by Weight. Process / Blend in order as listed**

<b>65.0 %</b>	<b>WATER</b>
<b>33.0%</b>	<b>BNB Concentrate (premix with 0.1 – 0.2% fragrance before adding to water if using fragrance)</b>
<b>0.1 to 0.2 %</b>	<b>as desired Fragrance and color see above</b>
<b>0.1%</b>	<b>Preservative</b>
<b>1.60%</b>	<b>Salt *</b>
<b>Balance –</b>	<b>Citric Acid if needed to adjust pH to between 6.5 to 7.5</b>

- **Salt – to thicken. Slightly more or less can be used - depending on your desired thickness /viscosity**

**Your INCI Name will be -> INCI: Aqua/ Water, PEG-80 Sorbitan Laurate (and) Cocamidopropyl Betaine (and) Sodium Trideceth Sulfate (and) Glycerin (and) Disodium Lauroamphodiacetate (and) PEG-150 Distearate (and) Sodium Laureth-13 Carboxylate, - > Add Sodium chloride if used to your INCI name and then add the INCI name of the preservative**

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