

### Shampoo for Curly Hair - 1115

Ingredient	Function	Percent	Wgt (g)	Wgt (oz)	Vol (tsp.)
<b>Phase A</b>					
Distilled Water (aqua)		40.50	97.20	3.43	19.44
Polyquaternium-10 (polyquaternium 10)		0.50	1.20	0.04	0.24
<b>Phase B</b>					
Alpha Olefin Sulfonate (sodium C14-16 alpha olefin sulfonate)		35.00	84.00	2.96	16.80
Coco Betaine (cocamidopropyl betaine)		15.00	36.00	1.27	7.20
Quaternium-31 (dicytyldimonium chloride, isopropyl alcohol)		3.00	7.20	0.25	1.44
PEG-150 Distearate (PEG-150 distearate)		2.00	4.80	0.17	0.96
PEG-7 Glyceryl Cocoate (PEG-7 glyceryl monococoate)		2.00	4.80	0.17	0.96
Cyclo-Dimethicone (cyclomethicone, dimethicone)		0.50	1.20	0.04	0.24
<b>Phase C</b>					
Paraben-DU (propylparaben, methylparaben, diazolidinyl urea, propylene glycol)		1.00	2.40	0.08	0.48
Fragrance Citrus Punch		0.50	1.20	0.04	0.24

#### Method

Add phase A into a disinfected glass beaker and mix the polyquaternium well until dissolved. Heat phase B to 150F/65C and melt the ingredients. Combine phase A and B and stir. When cool (below 100F/40C) add phase C and stir again.

#### Properties

The conditioners, polyquaternium-10 and quaternium-31 give a smooth appearance to the hair and improve wet comb and detangling. The surfactant combination is mild.