

From our Formulary

## Basic Water-in-Silicone Serum



**Lotioncrafter Serum SE** is a proprietary blend of self emulsifying silicone fluids designed to make the creation of water-in-silicone emulsions (or serums) simple. Along with Lotioncrafter Serum SE, serums are created and stabilized using a sodium chloride/sodium citrate buffer. This reduces interfacial tension and improves stability, as does the addition of glycerin and/or glycols (dipropylene, propylene or butylene glycol). These also contribute to increased preservative efficacy. This is a cold process emulsion, therefore if you have concerns about the quality of your water, heat and hold it at 180°F for 20 minutes and cool it to room temperature before proceeding. High shear (stick blender) mixing is not required; mixing with a stand mixer at moderate to high speed is preferred.

### Formula

	Percent	Grams	Ounces	Ingredient
<b>Phase A</b>	37.00	111.00	3.700	<b>Lotioncrafter Serum SE</b>
	10.00	30.00	1.000	<b>Dipropylene Glycol</b>
<b>Phase B</b>	51.75	155.25	5.175	Distilled Water
	0.25	0.75	0.025	<b>Sodium Citrate</b>
	0.50	1.50	0.050	Sodium Chloride (uniodized table salt)
	0.40	1.20	0.040	<b>Liquid Germall Plus</b>
	0.10	0.30	0.010	<b>Tetrasodium EDTA (powder)</b>

1. Combine Phase A ingredients in mixing vessel and set aside.
2. Combine all Phase B ingredients and stir to dissolve.
3. Using a stand or hand mixer on moderate to high speed, begin to add Phase B ingredients to the Phase A mixing vessel in a very slow stream (slow addition is critical). Once all of the water is incorporated, continue mixing 10-15 minutes until the emulsion is smooth and uniform. The final lengthy mixing will insure a smaller, uniform droplet size of the discontinuous water phase, improving long term stability.

Makes 300 grams (10 oz).

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made and we assume no liability regarding this formula or information contained herein. In every case we urge and recommend that our customers make their own tests to determine to their own satisfaction whether the product is suitable for their particular purposes under their own operating conditions. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without the authority from the owner of this patent.

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