



## FOAMIING BODY SCRUB WIITH ECOSCRUB 20PC

<u>Product Name</u>	<u>INCI Name</u>	<u>%W/W</u>	<u>Supplier</u>
<b>Phase A</b>			
Deionized Water	Water	51.20	N/A
Carbopol Ultrez 20	Carbomer	0.60	Lubrizol
<b>Phase B</b>			
Propylene Glycol	Propylene Glycol	3.50	N/A
Germaben II	Propylene Glycol, Diazolidinyl Urea, Methylparaben, Propylparaben	1.00	ISP
<b>Phase C</b>			
Protachem ES-2	Sodium Laureth Sulfate	21.00	Protameen Chemicals Inc.
Proteric CAB-LC	Cocamidopropyl Betaine	7.00	Protameen Chemicals Inc.
Protasorb L-20	Polysorbate 20	1.50	Protameen Chemicals Inc.
Protamide CME	Cocamide MEA	3.50	Protameen Chemicals Inc.
<b>Phase D</b>			
Deionized Water	Water	3.00	N/A
Disodium EDTA	Disodium EDTA	0.05	N/A
<b>Phase E</b>			
Triethanolamine 99%	Triethanolamine	0.65	N/A
<b>Phase F</b>			
<b>EcoScrub™ 20PC</b>	Polylactic Acid	7.00	<b>Micro Powders, Inc.</b>

### Procedure

1. In a main kettle, sprinkle the Carbopol Ultrez 20 on the surface of warm Deionized Water. (Heat the water to approximately 40 °C) Wait until the polymer has completely wet out.
2. Begin gentle mixing for 10 min.
3. In a separate vessel, combine Phase B materials.
4. Add Phase B to Phase A. Mix until homogeneous.
5. Add ingredients in Phase C (in individual order) to Phase AB with slow continuous mixing. (NOTE: Make sure each ingredient is completely dispersed before going to the next.)
6. Pre-mix Phase D in a separate vessel.
7. Add Phase D with slow continuous mixing until completely dispersed.
8. Add Phase E to the batch, adjusting to pH 6.0 – 6.5. Mix until uniform.
9. Slowly add Phase F and mix until uniform.