



Exfoliating Cleanser Featuring Macrobead[®] 7100 (Formulation Guideline)

Phase	Material	% by Wt.
A	DI Water	80.9
	Sodium C14-16 Olefin Sulfonate (Bio-Terge AS-40, Stepan)	12.0
	Ultrez [®] 20 (Noveon)	0.8
B	Sodium Cocyl Isethionate (Jordapon CI 65, BASF)	3.0
C	NaOH (50 %)	0.1
D	Macrobead [®] 7100 (AMCOL)	3.0
E	DMDM Hydantoin (Nipaguard DMDMH, Clariant)	<u>0.2</u>
Total		100.0

Procedure:

Add sodium C14-16 olefin sulfonate to water, add Ultrez 20 and allow to hydrate and then mix until uniform. Heat the water phase to 65 °C. Add Phase B to Phase A, mix until uniform and then cool to 35 – 40 °C. Check pH and add enough NaOH to bring the pH between 4.5 and 5. Add Macrobead 7100 and preservative.

Note: Unless otherwise noted, all formulations are for demonstration purposes only. No warranty is given or implied regarding the formulations suitability for your specific application. Please test all formulations prior to use. Macrobead is a registered trademark of AMCOL International, Inc. Ultrez is a registered trademark of Noveon.