

Barrier Cream No. 489

		Wt.%
A	VEEGUM[®] Ultra Magnesium Aluminum Silicate	0.50
	Carbomer (Carbopol [®] 934 ¹)	0.25
	Water	88.31
B	Cetyl Alcohol	0.50
	Glyceryl Monostearate SE	2.00
	C12-15 Octanoate (Finester [™] EH-25 ²)	3.00
	Castor Oil/IPDI Copolymer (Polyderm [™] PPI CO ³)	1.00
	Phenyl Dimethicone (DC 556 Fluid ⁴)	3.00
	Steareth-2 (Brij [®] S2 ⁵)	0.72
	Steareth-21 (Brij [®] S721 ⁵)	0.72
C	Preservative, Fragrance	q.s.
D	Triethanolamine (to pH 5.8 ± 0.3)	q.s.

Procedure: Begin heating the water to 80°C. Slowly add the **VEEGUM Ultra** and carbomer sequentially or as a dry blend to the water agitated at maximum available shear. Mix until fully hydrated. Maintain the water phase at 80°C. Blend the Part B oil phase ingredients and heat to 80°C. Add the oil phase to the water phase with good agitation; mix until uniform. Cool while mixing; add the Part C ingredients when the emulsion is < 35°C. Adjust as necessary to pH 5.8 ± 0.3.

RAW MATERIAL SUPPLIERS¹Lubrizol Advanced Materials, Inc., Cleveland, OH²Innospec Active Chemicals, Edison, NJ³Alzo International, Inc., Sayreville, NJ⁴Dow Corning Corporation, Midland, MI⁵Croda, Inc., Edison, NJ**TRADEMARKS****VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC.

Brij is a registered trademark of Uniqema Americas LLC.

Carbopol is a registered trademark of Lubrizol Advanced Materials, Inc.

Finester is a trademark of Innospec Performance Chemicals Company.

Polyderm is a trademark of Alzo Investments.

Rev04/25/2013