

**Barrier Cream No. 489**

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

**Procedure:** Begin heating the water to 80°C. Slowly add the **VEEGUM Ultra** or **VEEGUM EZ** 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 SUPPLIERS**
<sup>1</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH

<sup>2</sup>Innospec Active Chemicals, Edison, NJ

<sup>3</sup>Alzo International, Inc., Sayreville, NJ

<sup>4</sup>Dow Corning Corporation, Midland, MI

<sup>5</sup>Croda, Inc., Edison, NJ

**TRADEMARKS**
**VEEGUM** is a registered trademark of Vanderbilt Minerals, LLC.

Brij is a registered trademark of Croda 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.

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