## Physical, Chemical UV Protection Cream No. 514

A	VEEGUM® <i>Ultra</i> Magnesium Aluminum Silicate Carbomer (Ultrez™ 10¹) Water	<b>Wt.%</b> 2.0 0.2 51.4
В	Polysorbate 20 (Tween® 20²) Aqua (and) Titanium Dioxide (and) Alumina (and) Silica (and) Sodium Polyacrylate (and) Propylene Glycol (and) Diazolidinyl Urea (and) Methyl Paraben (and) Propyl Paraben (Tioveil® AQ-G²)	1.0 12.5
	Butylene Glycol	3.0
С	Cetyl Alcohol Isosorbide Laurate Caprylic/Capric Triglyceride (Neobee® M-5³) Glyceryl Monostearate SE C12-15 Octanoate (Finester™ EH-25⁴) Octylmethoxycinnamate (Parsol® MCX⁵) Avobenzone (Parsol® 1789⁵) Octyl Salicylate (Dermoblock™ OS⁶) Dimethicone (Xiameter® PMX-200 Silicone Fluid 350cs⁻) Laureth-23 (Brij® L23²) Steareth-2 (Brij® S721²)	0.5 1.0 5.0 3.0 3.0 7.0 2.0 3.0 1.0 0.5 1.9
D	Etidronic Acid	0.1
E	Triethanolamine (to pH 6.0±0.5) Preservative, Fragrance	q.s. q.s.

**Procedure:** Begin heating the water phase 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. Add the water phase ingredients from Part B, mixing until uniform. Maintain the water phase at 80°C. Blend the oil phase ingredients of Part C and heat to 80°C. Add the oil phase to the water phase with high shear mixing. Mix at reduced speed while cooling to 45°C and then add Part D followed by Part E. Adjust as necessary to pH 6.0 ± 0.5.

Note: The combination of TiO2 and Avobenzone is not approved for use in the USA.

## **RAW MATERIAL SUPPLIERS**

<sup>1</sup>Lubrizol Advanced Materials, Inc., Cleveland, OH <sup>2</sup>Croda, Inc., Edison, NJ <sup>3</sup>Stepan Company, Northfield, IL <sup>4</sup>Innospec Active Chemicals, Edison, NJ <sup>5</sup>Givaudan Corporation, Teaneck, NJ <sup>6</sup>Alzo International, Inc., Sayreville, NJ <sup>7</sup>Dow Corning Corporation, Midland, MI

## **TRADEMARKS**

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