

Water-Resistant Sunscreen Lotion No. 494

	Wt.%
A	VEEGUM® Ultra or VEEGUM EZ Magnesium Aluminum Silicate 2.0
	Carbomer (Ultrez™ 10 ¹) 0.2
	Water 64.6
B	Glycerin 3.0
	Butylene Glycol 3.0
C	Cetyl Alcohol 1.0
	Isosorbide Laurate 1.0
	Glyceryl Monostearate SE 3.0
	C12-15 Octanoate (Finester™ EH-25 ²) 5.0
	Octylmethoxycinnamate (Parsol® MCX ³) 7.5
	Avobenzone (Parsol® 1789 ³) 2.0
	Castor Oil/IPDI Copolymer (Polyderm™ PPI-CO ⁴) 1.0
	Phenyl Dimethicone (DC 556 Fluid ⁵) 3.0
	Steareth-2 (Brij® S2 ⁶) 1.8
Steareth-21 (Brij® S721 ⁶) 1.8	
D	Disodium EDTA 0.1
E	Triethanolamine (to pH 6.0±0.5) q.s.
	Preservative, Fragrance q.s.

Procedure: Begin heating the water phase to 75°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. Add the water phase ingredients from Part B, mixing until uniform. Maintain the water phase at 75°C. Blend the oil phase ingredients of Part C and heat to 75°C. Add the oil phase to the water phase with high shear mixing. Mix at reduced speed while cooling to 45°C; then add Part D followed by Part E. Adjust as necessary to pH 6.0 ± 0.5.

RAW MATERIAL SUPPLIERS
¹Lubrizon Advanced Materials, Inc., Cleveland, OH

²Innospec Active Chemicals, Edison, NJ

³Givaudan Corporation, Teaneck, NJ

⁴Alzo International, Inc., Sayreville, NJ

⁵Dow Corning Corporation, Midland, MI

⁶Croda, Inc., Edison, NJ

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

Brij is a registered trademark of Uniqema Americas LLC.

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Parsol is a registered trademark of Givaudan Corporation.

Polyderm is a trademark of Alzo Investments.

Ultrez is a trademark of Noveon IP Holdings.

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