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VANDERBILT

Minerals Formula

Protectant Hoof Cream No. A490

		Wt. %
A	VEEGUM[®] Ultra Magnesium Aluminum Silicate (Magnesium Aluminum Silicate)	0.80
	Carbomer (Carbopol [®] 934 ¹)	0.30
	Water	79.00
B	Glycerin	2.00
	Butylene Glycol	2.00
C	Cetyl Alcohol	0.50
	Glyceryl Monostearate SE	2.00
	Caprylic/Capric Triglyceride (Neobee [®] M-5 ²)	2.00
	C ₁₂₋₁₅ Octanoate (Finester [™] EH-25 ³)	2.00
	Castor Oil Polyurethane (Polyderm [™] PPI CO ⁴)	1.00
	Phenyl Dimethicone (DC 556 Fluid ⁵)	3.00
	Dimethicone (XIAMETER [®] PMX-200 Silicone Fluid 350cs ⁵)	1.00
	Bois Oil	0.50
	Steareth-2 (Brij [®] S2 ⁶)	0.95
	Steareth-21 (Brij [®] S721 ⁶)	0.95
D	Panthenol	1.00
	Vitamin E Acetate	0.50
	Vitamin A Palmitate	0.50
	Triethanolamine (to pH 5.8 ± 0.3)	q.s.
E	Preservative, Fragrance	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. Add the remaining water phase ingredients from Part B, mixing until uniform. Maintain the water phase at 80°C. Blend the Part C 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 D and Part E ingredients when the emulsion is < 35°C. Adjust as necessary to pH 5.8±0.3.

RAW MATERIAL SUPPLIERS

¹Lubrizol Advanced Materials Inc.,
Cleveland, OH

²Stepan Company, Northfield, IL

³Innospec Active Chemicals, Edison, NJ

⁴Alzo International Inc., Sayreville, NJ

⁵Dow Corning Corporation, Midland, MI

⁶Croda Inc., Edison, NJ

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Polyderm is a trademark of Alzo Investments.

Xiameter is a registered trademark of Dow Corning Corporation.

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