



ETHOX CARE® BTMS-25

INCI: BEHENTRIMONIUM METHOSULFATE (AND) CETEARYL ALCOHOL

PERFORMANCE BENEFITS

ETHOX CARE® BTMS-25 is a blend of behentrimonium methosulfate and cetearyl alcohol. This combination creates an emulsification system with unique characteristics. In creams and lotions, it can be used alone as the sole emulsifier. For systems that are difficult to emulsify, it is an excellent choice. It can emulsify systems that contain high levels of silicone. Because it is cationic, it is substantive to hair and skin. In hair care, it delivers excellent conditioning and improves wet and dry combing. It can be used to create rinse off conditioners as well as leave on conditioners and detangling sprays. In skin care, it delivers a soft elegant after feel and in rinse off products it facilitates deposition of other nonionic conditioners and moisturizers.



APPLICATIONS

Usage will vary depending upon system. Typical range is 1% to 10%.

- Creams and lotion
- Rinse off hair conditioners
- Leave on hair conditioners
- Hair relaxers
- Detangling spray



TYPICAL PROPERTIES

Appearance @25°C.....	Solid Flake
Color (Gardner).....	2.0 max
Amine Value.....	2.0
Melt Point.....	43°-75°C
pH (2%).....	4.5-6.5

TECHNICAL CONTACT

864-277-1620

sales@ethox.com

The information contained herein is believed to be correct; however, it should not be construed as a guarantee or as a statement of suitability for use in any application. This information should not be considered as a recommendation to violate any patent.



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FORMULATION GUIDELINES

Simple conditioners can be made by simply heating 5% ETHOXCARE® BTMS-25 in water to 80C. Fragrance, color, and preservative can be added as desired on cooling. In making emulsions, ETHOXCARE® BTMS-25 can be incorporated into the oil phase. Often it can serve as the sole emulsifier and works well in difficult to emulsify systems. Usage levels vary with application, but are generally from 1-10%. Where used as the sole emulsifier, concentrations of 5% or more may be appropriate. Where used in combination with other emulsifiers, concentrations of 1-5% or less may be appropriate. In conditioners, usage levels of 2-8% or more may be appropriate.



FORMULATION

DETANGLER – LEAVE IN CONDITIONER

INGREDIENTS	INCI NAME	QUANTITY
Water	Water	94.0%
ETHOXCARE® BTMS-25	Behentrimonium Methosulfate (and) Cetearyl Alcohol	1.0%
Pelemol P-810	Propanediol Dicaprylate/Caprata	5.0%



PROCEDURE

- 1) Begin heating the water to 80°-85°C.
- 2) In a separate vessel combine the ETHOXCARE® BTMS-25 with the Pelemol P-810 and heat to the same temperature.
- 3) With rapid mixing add step 2 to step 1 and maintain at 80°-85°C for 5-10 minutes.
- 4) Reduce mixing speed and cool to room temperature.

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