Import and distribution for Serbia: Farmadria DOO
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

TECHNICAL DATA SHEET

Product Name: Emulgent Blend® BTM-S

INCI Name: Behentrimonium Methosulfate, Cetyl Alcohol, Butylene Glycol

CAS: 81646-13-1, 36653-82-4, 107-88-0

Chemical Classification: Quaternary Ammonium Compound

Functional Category: Viscosity Modifier - increases viscosity, Surfactant - foam booster, Stabilizer - emulsion stabilizer, opacifying/pearlescent agent providing a pearl-like effect, hair conditioner, antistatic agent

Description: Emulgent Blend® BTM-S is a pelletized 50% active behenyl (quaternary ammonium salt) combined with cetyl alcohol and butylene glycol. It dissolves in warm water. An exceptionally efficient cationic self-emulsifying wax. Used as a powerful conditioner, softener, and antistatic agent. Compatible with other cationic and nonionic surfactants. Reacts with anionic detergents to form electro-neutral salts. Soluble in water, but stable solutions can be obtained using an excess of an anionic compound (e.g., sodium cocoyl glutamate, sodium lauryl glucose carboxylate, sodium decyl sulfate, sodium N-lauroyl-N-methyl taurate, sodium tetradecyl sulfate, and sodium dodecyl sulfate).

Benefits:

• Behentrimonium Methosulfate is a quaternary ammonium compound often used in hair care products such as conditioners and hair masks. It helps in detangling hair, improves manageability, and gives a smooth and silky feel. Particularly suitable for those with dry or damaged hair, as it can aid in moisturizing and softening the strands.

• Cetyl Alcohol is a fatty alcohol derived from natural sources like coconut oil or palm oil. Used as an emollient and thickening agent in cosmetic products. Helps in giving products a creamy texture.

• Butylene Glycol is a versatile ingredient predominantly used as a solvent and humectant in cosmetic products. It helps in dissolving other ingredients and improves the overall texture and spreadability of the product. Butylene glycol also acts as a humectant, meaning it attracts and retains moisture from the environment, helping skin or hair to remain hydrated. Often used in formulations as it can enhance the efficacy of

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other active ingredients by improving their penetration into deeper skin layers.

Usage: Preheat and dissolve in warm water. Usual concentrations in formulations are 2-10%. Provides cationic emulsions with soft, powdery sensations. Excellent stabilizer and thickener, capable of emulsifying up to 50% silicone. Used in skin care products, as well as in hair care preparations: conditioners and detangling agents. Used for making "leave-on" products (products that remain on the skin/hair for an extended period). For external use only.

Applications: Moisturizing creams and lotions, silicone emulsions, antiperspirants and deodorants, various hair care preparations (conditioners, hair dyes, hair relaxing treatments, leave-on treatments).

Source Materials: Canola oil (rapeseed oil), coconut oil, and vegetable oils

Method of Production: Behentrimonium methosulfate is obtained from the fatty acids of canola oil, which are "quaternized" by alkylation of tertiary amines to form the quaternary ammonium compound. Cetyl alcohol is a fatty alcohol obtained by catalytic hydrogenation of triglycerides derived from vegetable (coconut) oil. The oxidation occurs with the help of a triethylaluminium catalyst.

Animal Testing: The substance has not been tested on animals

GMO: Not GMO

Vegan: Does not contain components of animal origin