



Tamen™ TM-2285

Behenyltrimethyl Ammonium Chloride Surfactant

Overview

- 85% active behenyl (C22) trimethyl ammonium chloride in flake form
- Effective and efficient self-emulsifier conditioning agent for hair and skin
- Easy to handle flake, dispersible in hot water
- Imparts exceptional conditioning properties to hair and skin for improved wet combing and detangling on all hair types
- Application areas include organo-modified clays, corrosion inhibitors, mold release, paper and textile processing, and cosmetics

Regulatory

The substances in Tamen TM-2285 are listed on and in compliance with the following Inventories: US (TSCA), Canada (DSL), Mexico (INSQ), Europe (EINECS), Australia (AICS), China (IECSC), Japan (ENCS), Korea (ECL), New Zealand (NZIoC), Philippines (PICCS)

CAS#17301-53-0

INCI Name: Behentrimonium chloride

UNII Code: X7GNG3S47T

Technical Information

Tamen TM-2285 is an 85% active, naturally derived behenyl (C22) mono-alkyl quaternary in flake form. With its unique emulsifying, dispersing, solubilizing and fabric softening properties, Tamen TM-2285 is a versatile multifunctional product for use in wide range of functional applications that include: organoclays, paper chemicals, textile and leather auxiliaries.

In Personal Care applications, Tamen TM-2285 is substantive to hair and skin. As a hair conditioning agent, Tamen TM-2285 provides exceptional wet comb and detangling performance, leaving an overall healthy hair silkiness. In skin care products, Tamen TM-2285 contributes to enhanced product stability, smooth rub-out, and a silky skin feel.

Formulary

Tamen TM-2285 is dispersible in hot water, and compatible with nonionic and cationic surfactants. Suggested cosmetic use levels range from 1-5% as supplied for rinse-off products, and up to 0.25% active for leave-on products.

Typical Properties

PROPERTY	VALUE
Appearance	White to light tan flake
Odor	Mild
Ionic character	Cationic
Water solubility	Dispersible in hot water
Activity, %	78-84
pH (5% 1:1 IPA:H ₂ O.)	7.5±1.5
Melting point Point, °C	90
Flash point, °F	No flash <200
Storage	Freeze thaw stable
Shelf life	2 years

Packaging and Handling

Tamen TM-2285 is available in:
Fiber drums (Net Wt. 175 lbs)

Refer to Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product.

DOT Classification: Not regulated

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Damaged hair, especially permed hair can be difficult to comb, especially when wet. Hair Conditioner products are generally oil-in-water emulsions in which the lipophilic conditioning quaternium ammonium salt is the active ingredient. The conditioning quat, along with added fatty alcohols, such as cetearyl alcohol, impart exceptional wet-comb performance. The superior substantive properties of Tamen TM-2285 over other conditioning cationics significantly improves wet comb performance of these formulas, and others of their type, especially on damaged hair.