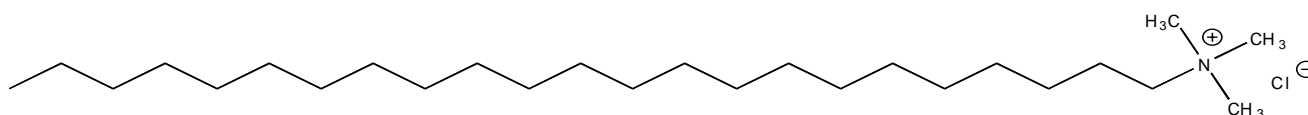


# Maquat<sup>®</sup> BTMC-85%



## Behentrimonium Chloride

### Overview

MAQUAT BTMC-85% is an 85% active behenyl trimethyl ammonium chloride in a convenient pastille form. With the unique substantive and anti-static properties of the behenyl moiety, BTMC-85% is a superior product for use in wide range of markets including: personal care, textiles and paper. MAQUAT BTMC-85% imparts exceptional wetting, cleaning, conditioning, softening, suspending and emulsification.

With over 35 years quat manufacturing experience and using the highest quality raw materials, MAQUAT BTMC-85% is characteristically low color, low odor and reliably consistent batch to batch.

MAQUAT BTMC-85% is based on the primary lipid found on hair surfaces, making it a uniquely natural compliment for use in hair conditioners and rinses, skin creams and lotions. BTMC-85% imparts smooth detangling, improves dry comb and fly away, while leaving a soft powdery afterfeel. In other applications, use Maquat BTMC-85% as a cationic emulsifier.

**INCI Name: Behentrimonium Chloride**

### Typical Properties

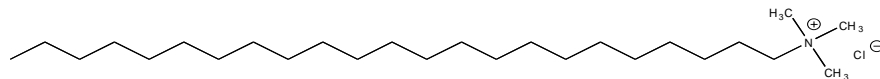
Water solubility.....	Dispersible
Physical form.....	Pastilles
Color (Gardner).....	3 Maximum
Active quaternary (m.w. 401).....	78-84%
Solids.....	80.0% Minimum
Specific gravity (60°C).....	0.60±0.04
Melting Point.....	60-65°C /140-150°F
pH (5% IPA).....	6.0-8.0
Flash point.....	20-25°C /70-80°F (PMCC)
RVOC, U.S. EPA, %.....	10 (2-Propanol)

### Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Mason Chemical Company for information on the safe use, handling and disposal of this product.

*Maquat is a trademark of Mason Chemical Company.*

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MAQUAT BTMC-85% is based on the primary lipid found on hair surfaces, making it a uniquely natural compliment for use in hair conditioners and rinses, skin creams and lotions. BTMC-85% imparts smooth detangling, improves dry comb and fly away, while leaving a soft powdery afterfeel. In Hair Conditioner formulations, Maquat BTMC-85% imparts superior conditioning properties for differentiated products, as the formulations below illustrate:

## Moisturizing Hair Conditioner

Ingredients:	Wt.%
<b>Part A</b>	
Water.....	to 100.00
<b>Maquat CETAC-30%</b> .....	0.3
<b>Part B</b>	
Cetearyl alcohol .....	1.5
<b>Maquat BTMC-85%</b> .....	1.2
<b>Part C</b>	
Fragrance.....	q.s
Extracts/Oils .....	q.s.
Preservative .....	q.s.

### Procedure:

- Part A: Mix water and CETAC-30%, heat to 65°C.
- Part B: Mix Cetearyl alcohol, and Maquat BTMC-85%, heat to 65°C.
- Mix Part B into Part A, and hold for 30 minutes, Cool to 45°C, add Part C.
- Add Fragrance, Extracts/Oils such as Aloe Vera, Chamomile and Jojoba, and Preservative.

## Detangling Hair Conditioner

Ingredients:	Wt.%
<b>Part A</b>	
Water.....	to 100.00
<b>Maquat CETAC-30%</b> .....	0.5
<b>Part B</b>	
Cetearyl alcohol .....	2.5
<b>Maquat BTMC-85%</b> .....	2.0
Amodimethicone .....	1.0
C13-14 Isoparaffin.....	1.0
<b>Part C</b>	
Propylene glycol.....	1.0
Fragrance.....	q.s
Extracts/Oils .....	q.s.
Preservative .....	q.s.

### Procedure:

- Part A: Mix water and CETAC-30%, heat to 65°C.
- Part B: Mix components, heat to 65°C.
- Mix Part B into Part A, and hold for 30 minutes, Cool to 45°C, add Part C.
- Add Fragrance, Extracts/Oils such as Aloe Vera, Chamomile and Jojoba, and Preservative.

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 the fatty alcohols impart wet-comb performance to the formulation. The superior substantive properties of Maquat BTMC-85% over other conditioning cationics significantly improves wet comb performance of these formulas, and others of their type, especially on damaged hair.