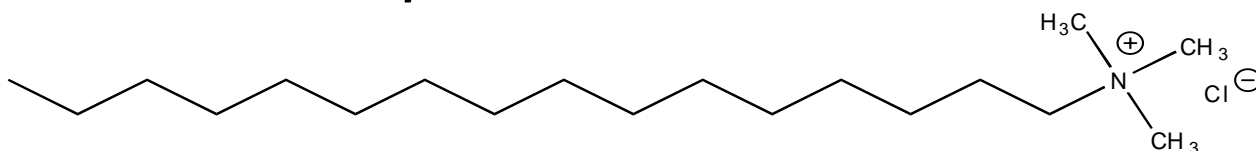


# Maquat<sup>®</sup> CETAC-30%



## Cetrimonium Chloride

### Overview

MAQUAT CETAC-30% is a 30% active cetyl trimethyl ammonium chloride in water with excellent substantive and anti-static properties for use in wide range of markets including: personal care, textiles and paper. MAQUAT CETAC-30% imparts exceptional wetting, cleaning, conditioning, softening, suspending and emulsification.

With over 35 years quat manufacturing experience, MAQUAT CETAC-30% is characteristically low color, low odor and reliably consistent batch to batch.

CETAC-30% is biodegradable, practically non-toxic orally, and contains no solvents or VOCs. MAQUAT CETAC-30% is typically used in hair conditioners and rinses, skin creams and lotions, as a cationic emulsifier, and as an anti-static and softening agent in textile applications.

### INCI Name: Cetrimonium Chloride

### Typical Properties

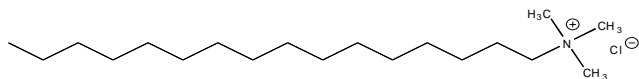
Water solubility .....	Complete
Physical form .....	Colorless to light yellow liquid
Active quaternary (m.w. 320) .....	29% Minimum
Free Amine (m.w. 269) & Amine HCl (m.w. 305)....	1.0% Maximum
Specific gravity (25°C).....	0.93±0.04
Viscosity (25°C).....	<10cps (Brookfield)
pH, 5% aq.....	3.0-4.0
Boiling Point .....	212°F(100°C)
Flash point.....	>200°F (PMCC)
RVOC, U.S. EPA, % .....	0
Shipping .....	Non-Red Label

### 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 and Enhansys are trademarks of Mason Chemical Company.*

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## **Preservative-Free Moisturizing Hair Conditioner**

<b>Ingredients:</b>	<b>Wt. %</b>
Water.....	to 100.0
<b>Maquat CETAC-30%</b> .....	3.0
Cetyl alcohol.....	3.0
Stearyl alcohol.....	1.0
Ceteareth-20 .....	0.5
<b>Enhansys M-110</b> .....	1.0
Fragrance .....	q.s

### **Procedure:**

- Mix water and CETAC-30%, heat to 65°C.
- Add Cetyl/Stearyl alcohols, and Ceteareth-20, heat to 75°C and hold for 30 minutes.
- Cool to 45°C, add Enhansys M-110 and Fragrance.

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.

**ENHANSYS M-110** is a moisturizing, conditioning and formulation fortifying agent that contributes moisturization, improved wet-comb performance, reduction in irritation, while eliminating the need for traditional preservatives.

### **INCI Names:**

Maquat CETAC-30%: Cetyltrimonium Chloride  
Enhansys M-110: Glycereth-2 Cocoate and Benzoic Acid and C4-18 Perfluoroalkylethyl Thiohydroxypropyltrimonium Chloride