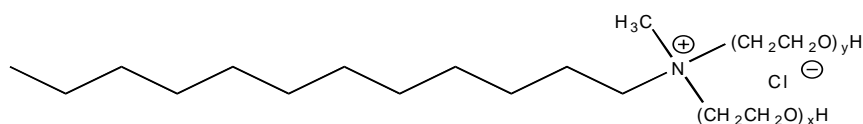


# Maquat<sup>®</sup> C-15



## PEG-15 Cocomonium Chloride

### Overview

MAQUAT C-15 is a 95% active PEG-15 cocomonium chloride. With its unique substantive, lubricating, detangling, anti-static and anionic compatible foaming properties, C-15 is a superior product for use in wide range of products including: 2-in-1 shampoos, restorative conditioners, conditioning hairspray, crèmes and lotions.

With over 35 years quat manufacturing experience and using the highest quality raw materials, MAQUAT C-15 is reliably consistent batch to batch.

MAQUAT C-15 is based on the renewable vegetable lipid found in coconut oil, making it a uniquely natural compliment for use in hair conditioners and rinses, skin crèmes and lotions. C-15 improves dry comb and fly away, while building volume and sheen, especially with colored, permed, sun dried and damaged hair. In other applications, use Maquat C-15 as a cationic emulsifier, and as an anti-static and softening agent in crèmes, lotions and other personal care products.

**INCI Name: PEG-15 Cocomonium Chloride**

**CAS#: 61791-10-4**

### Typical Properties

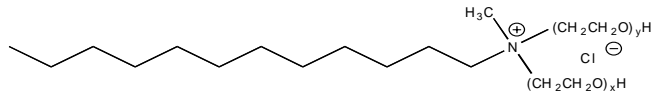
Water solubility.....	Soluble
Physical form.....	Viscous liquid
Color (Gardner).....	11 Maximum
Active quaternary (m.w. 911).....	95% Minimum
Specific gravity (25°C).....	1.08±0.04
pH (10% aq.).....	7.0-9.0
Flash point.....	>200°F (PMCC)

### 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.

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# Maquat® C-15



MAQUAT C-15 is a 95% active PEG-15 cocomonium chloride in water. With its unique substantive, anti-static, emulsifying and anionic compatible foaming properties, C-15 is an excellent product for use in wide range of products including: 2-in-1 shampoos, restorative conditioners, conditioning hairspray, crèmes and lotions.

MAQUAT C-15 is based on the renewable vegetable lipid found in coconut oil, making it a uniquely natural compliment for use in hair conditioners and rinses, skin creams and lotions. C-15 improves dry comb and fly away, while building volume and sheen, especially with colored, permed, sun dried and damaged hair. In Shampoo and Conditioner formulations, Maquat C-15 imparts superior conditioning properties for differentiated products, as the formulations below illustrate:

## 2-in-1 Shampoo

Ingredients:	Wt. %
Water.....	to 100.00
Sodium laureth-2 sulfate (26%) .....	25.0
Sodium lauryl sulfate (28%) .....	25.0
<b>Macat Ultra CDO</b> .....	5.0
<b>Maquat C-15</b> .....	2.5
Fragrance.....	q.s
Extracts/Oils .....	q.s.
Preservative .....	q.s.

### Procedure:

- Charge materials into water with agitation in order.
- Add Fragrance, Extracts/Oils such as Aloe Vera, Chamomile and Jojoba, and Preservative.

## Detangling Hair Conditioner for Damaged Hair

Ingredients:	Wt. %
<b>Part A</b>	
Water.....	to 100.00
<b>Maquat CETAC-30%</b> .....	0.5
<b>Maquat C-15</b> .....	1.5
<b>Part B</b>	
Cetearyl alcohol .....	2.5
<b>Maquat BTMC-85%</b> .....	2.0
<b>Masurf LL</b> .....	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% and C-15, 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 and lubricating properties of Maquat C-15 over other conditioning cationics significantly improves wet comb performance of these formulas, and others of their type, especially on damaged hair.