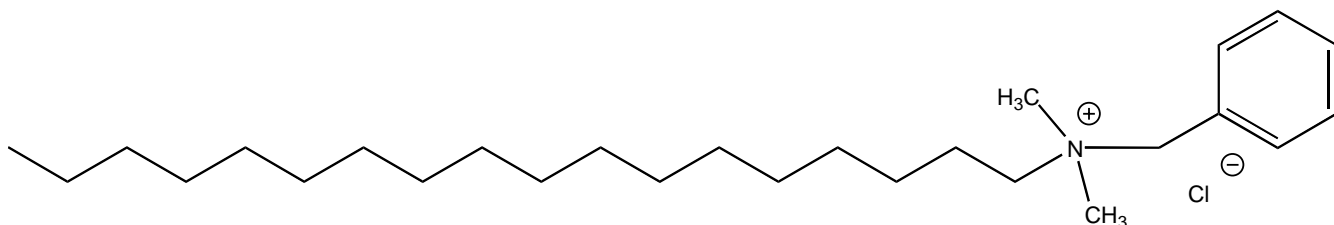


# Maquat<sup>®</sup> SC18



## Stearalkonium Chloride

### Overview

MAQUAT SC18 is characterized as a stearyl dimethylbenzyl ammonium chloride available in either paste or flake form. SC18 is a high quality, low color cationic surfactant with excellent substantive properties for use in personal care formulations, textiles and paper.

Cationic surfactants have a multitude of uses. Use MAQUAT SC18 as a substantive conditioning agent in **Hair Conditioners**, as an emulsifier and emollient in **Lotions and Creams**. SC18 finds use as a binder in **Paper Production**, and an anti-stat and polyester solubilizer in **Textile** dyeing and finishing.

MAQUAT SC18 is slightly toxic orally with an LD50 of greater than 1g/kg, and can cause minor skin and severe eye irritation in high concentrations. Refer to Material Safety Data Sheet.

MAQUAT SC18 is available as a 25% solids paste and as an 85% actives flake. SC18-25% contains 5% stearyl alcohol as an added conditioning agent and for viscosity control. SC18-85% is shipped as a convenient free flowing flake that does not contain added stearyl alcohol. **INCI Name: Stearalkonium Chloride**

### Properties & Specifications

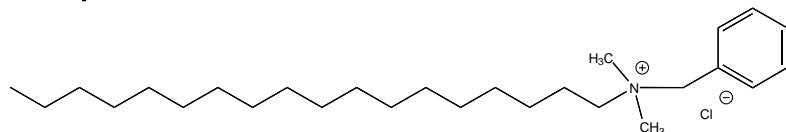
	SC18-25%	SC18-85%
Physical form.....	White Paste	White Flake
Solids.....	24.5-26.5%	85% Min.
Active quaternary (m.w. 425) .....	16.5-18.0%	85% Min.
Free Amine HCl .....	4% Max.	
Free Amine.....		4% Max.
Free Fatty Alcohol .....	5% Max.	
Color (APHA).....	100 Max.	100 Max.
pH, 1% aq. dispersion .....	3.0-4.0	5.0-8.5
Melting point.....	Paste @RT	140°F(60°C)
Flash point (PMCC).....	>200°F(100°C)	150°F(66°C)
RVOC, U.S. EPA, %.....	0	10 (Ethanol)
Shipping .....	Non-Red Label	

### Handling Information

Refer to and follow the guidelines in 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.*

# Maquat<sup>®</sup> SC18



MAQUAT SC18 is Stearalkonium Chloride available as a 25% solids paste in water, or an 85% active flake. SC18 is an industry standard conditioning agent. MAQUAT SC18 is a consistent low color, low odor product made from the highest quality raw materials for personal care products applications. The formulation below illustrates a typical application:

## Conditioning Shampoo

Ingredient	Wt%
Water.....	28.0
<b>Macat Ultra CDO</b> .....	35.0
<b>Macat AO-14</b> .....	35.0
<b>Maquat SC18-25%</b> .....	1.5
Citric acid.....	q.s.
Ammonium Sulfate.....	0.5
Sodium Citrate.....	q.s.
Dye, Fragrance & Preservative.....	q.s.

### Notes:

Mix first 4 components, heat to 100-120°F. Adjust pH w/Citric acid to 6-7. Cool, adjust viscosity w/Ammonium sulfate, sodium citrate. Add remaining ingredients.

Maquat SC18 contributes rich conditioning properties. Macat Ultra CDO, Macat AO-14 contribute high lathering foam with conditioning properties.