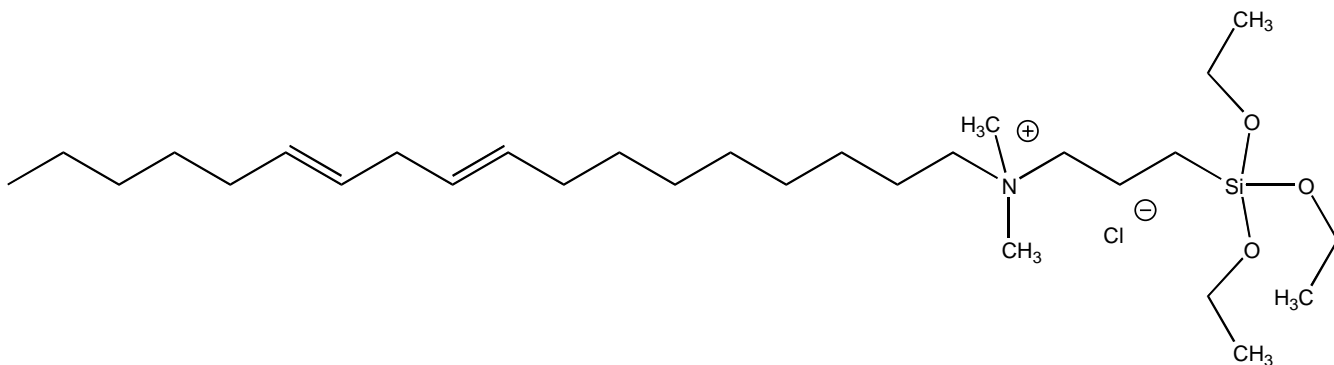


# Maquat<sup>®</sup> QSX



## Reactive Quat Siloxanes

### Overview

MAQUAT QSX-18SE/75BG is an example of a QSX-series Reactive Quat Siloxane characterized as Triethoxysilyl Soyapropyl Dimonium Chloride in butylene glycol and another example being QSX-22/75PC, characterized as Trimethoxysilyl Behenpropyl Dimonium Chloride.

The MAQUAT QSX Series is manufactured through reactions of chloropropyl trimethoxysilane or chloropropyl triethoxysilane with tertiary amines. In the examples of QSX-18SE/75BG, QSX-22/75PC and QSX-18SM/72MA-soya, behenyl and stearyl dimethyl amines are used-with other amines such as lower alkyl amines or aromatic amines such as pyridine or mixed picolines for other applications. Additionally, high flash non-VOC carriers such as propylene carbonate, as in QSX-22/75PC, can be applied.

MAQUAT QSX reactive quat siloxanes have a multitude of uses. Use MAQUAT QSX-18SE/75BG as a substantive conditioning agent in **Heat Activated Hair Conditioners**, or long lasting emollient in **Lotions and Creams**, or any application where substantive cationic surface activity is desired.

### Typical Properties

	QSX-18SE/75BG	QSX-22/75PC	QSX-18SM/72MA
Physical form.....	Viscous liquid	White Solid	Viscous liquid
Active quaternary .....	75%.	75%	72%
Free Amine .....	0.5% Max.	0.5% Max	0.5% Max
Color (Gardner) .....	4 Max.	1 Max.	1 Max.
pH, 5% aq. dispersion .....	5.0±1.5	5.0±1.5	5.0±1.5
Melting point .....		170°F(75°C)	
Flash point (PMCC).....	>200°F(100°C)	>200°F(100°C)	93°F(34°C)

### 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.

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MAQUAT QSX versions are 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 product specific Material Safety Data Sheets for more information.

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