# TECHNICAL DATA SHEET

## CHT-BeauSil QUAT 255 L
## Modified siloxane as an ingredient for Personal Care.

### Description

Cationic modifed silicone polymer for the use as an ingredient in Personal Care. The cationic polymer has a high affinity to the hair and can work as well as a booster for other ingredients like PQ-10, Amodimethicone and other polymers.

### Key Features

- Improves combing behaviour
- Smoothness and gloss
- Repairing properties
- Anti-static effect

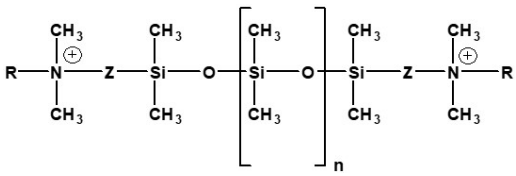
### Key Applications

- Shampoo
- Leave-On Products
- Shower Gels
- Treatments

### Application

CHT-BeauSil™ QUAT 255 is an ideal ingredient for many types of hair care products like shampoos, conditioners, leave-on treatments or 2-in-1 shower gels. Beside providing the conditioning effect, CHT-BeauSil™ QUAT 255 is also ideal as booster for other cationic ingredients like amodimethicones, PQ-10, PQ-7 or the sugar modified silicones such as CHT-BeauSil™ AMO 918 EM.

### Structure of a Silicone Quat



### Health & Safety

Safety Data Sheets available on request

### Packaging

Drum and bulk containers. Please contact our sales department for more information.

| | |
|---|---|
| Revision Date | 21 Jul 2022 |
| Revision No | 2 |
| Download Date | 14 Nov 2024 |

| Property | Test Method | Value |
|---|---|---|
| **Product** | | |
| Appearance | | **Colourless to yellow liquid** |
| INCI Name | | **Quaternium-80** |
| Ionicity | | **Cationic** |
| MIT Free | | **Yes** |
| Non-Volatile Content (%) | | **100** |
| Ultralow cyclic content | | **No** |
| **Addition Rates** | | |
| Dosage - 1 | | **0.5 – 1.5% in shampoos** |
| Dosage - 2 | | **0.5 – 2.0% in rinse-off products** |
| Dosage - 3 | | **0.1 – 0.5% in leave-on products** |
| **Solubility** | | |
| Solubility - Almond oil | | **Miscible** |
| Solubility - Cetyl Dimethicone | | **Miscible** |
| Solubility - Dimethicone 350cst | | **Miscible** |
| Solubility - Ethanol | | **Soluble** |
| Solubility - Ethylhexylcarbonate | | **Soluble** |
| Solubility - Glycerine | | **Soluble** |
| Solubility - IPM | | **Soluble** |
| Solubility - Isododecane | | **Insoluble** |
| Solubility - Paraffin Oil | | **Insoluble** |
| Solubility - Polysorbate-20 | | **Miscible** |
| Solubility - Propylenglycol | | **Soluble** |
| Solubility - Water | | **Insoluble** |
| **Storage** | | |
| Max Storage Temperature | | **40 °C / 104 °F** |
| Min Storage Temperature | | **4 °C / 39 °F** |
| Shelf Life | | **24 mths** |

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