



# Product information

## Cationic Surfactant

dated on Oct 31, 2014.

### 『 BTMS 7550KC 』

#### ► Description

BTMS P7550KC is a pelletized 50% active Behenyl(derived from the natural plant oil, rape seed oil) quaternary ammonium conditioning agent, Cetyl alcohol and 1,3-Butylene glycol.

BTMS 7550KC dissolves in alcohol and warm water.

It is used as strong conditioning agent, antistatic agent and softening agent.

It has good compatibility with other cationic and nonionic surfactants.

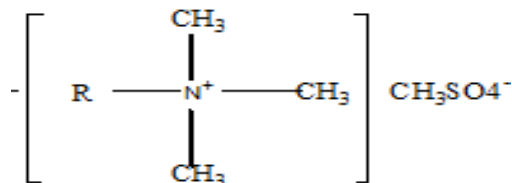
It reacts with anionic surfactants by forming electro-neutral salts.

These are soluble in water but stable solutions can be obtained by using an excess of an anionic compound.

#### ► General Characteristics

General characteristics	: Cationic surfactant
Classification	: Quaternary ammonium compound, surfactant
H.S Code No.	: 3402.12-0000
INCI Name	: Behentrimonium methosulfate / Cetyl alcohol / 1,3-Butylene glycol
C.A.S No.	: 81646-13-1 / 36653-82-4 / 107-88-0
EINECS No	: 279-791-1 / 253-149-0 / 203-529-7

#### ► Chemical Structure:



Carbon Chain	Typical data
<=C18	5%
C20	15%
C22	78%
C24	2%

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## ▶ Typical Data:

Appearance	: White to Pale yellowish pellets
Activity	: 48 - 51 %
pH (2% soln)	: 5.0 - 7.0
Acid value	: 3.0 mg KOH/g max
Color(APHA)	: 100 max
Free Amine	: 1.5 % max
Heavy metal(Pb)	: 10 ppm max
Arsenic	: 2 ppm max
Cetyl alcohol	: 40%
1,3-Butylene Glycol	: 10%

## ▶ **Property**

- Superior lubrication from long C22 alkyl chain
- High concentrated product easy to apply to various formulations
- Non hazardous, Non volatile and Non flammable solid
- Substantive to skin and hair
- Excellent Detangling/Wet combing and soft, Powdery skin feel
- Exceptionally mild, non-irritant/Safe for leave-on skin care

## ▶ **Applications**

- Leave-on Conditioners/Rinse-off Conditioners
- Detanglers/ Hair Relaxers/Straighteners/Hair Dyes
- Creams&Lotions/Silicone Emulsions/Shaving Products

## ▶ **Suggested usage concentration**

0.5 ~ 10% BTMS 7550KC

▶ **Packing** : 20kg carton box.

▶ **Shelf life** : 24months

# Cationic Surfactant

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## ► Formulation : <Hair Conditioner>

Ingredients	Wt. %
<b>Part A</b>	
Water	to 100.00
<b>Part B</b>	
Cetyl Alcohol	1.7
Stearyl Alcohol	2.3
BTMS 7550KC	4.25
Glycerine	2.5
GCC 300KC(Caprylic capric triglyceride)	1.5
Aracel 165(Glycerol stearate/PEG100 Stearate)	2.85
Cyclosiloxane	0.5
<b>Part C</b>	
Extracts/Oils	q.s
Fragrance	q.s
Preservative	q.s

Heat the water of part A to 65℃.

Mix Part B (Cetyl alcohol – Cyclosilaxane), heat to 65℃.

Add Part B to Part A with agitation, and cool to 50℃, add Part C.

Viscosity 20000cps (RVT No 5, 10rpm, at 25℃)

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## ► Formulation : <Hair Conditioner>

Ingredients	Wt. %
<b>Part A</b>	
Water	to 100.00
<b>Part B</b>	
Stearyl Alcohol	2.5
BTMS 7550KC	2.5
DC200Fluid(350cs, Dow Corning)	5.0
Wheat Germ Oil	1.0
<b>Part C</b>	
Extracts/Oils	q.s
Fragrance	q.s
Preservative	q.s

Heat the water of part A to 75℃.

Mix Part B (Stearyl alcohol – Wheat Germ Oil), heat to 75℃.

Add Part B to Part A with agitation, and cool to 50℃, add Part C.

Viscosity 15000cps (RVT No 5, 10rpm, at 25℃)