

# GREENQUAT® BT

INCI **Coco Glucoside**  
CAS **68515-73-1; 110615-47-9**

## SPECIFICATIONS

Appearance	Clear liquid
Color	Very light yellow
Odor	Soft, characteristic
Dry residue (105°C)	77 – 83%
Specific gravity (25°C)	1.1 - 1.3 g/ml
pH (5% water solution at 25°C)	4 - 6

## GENERAL INFORMATION

Greenquat® BT is a natural conditioner derived from sugar beet. It is a patented copolymer with high cationic charge.

Greenquat BT® can flexibly replace synthetic conditioning ingredients (ammonium chloride derivatives, hydroxypropyltrimonium, silicone and polyquaternium derivatives) commonly used in haircare applications.

Greenquat BT® is water soluble and specifically developed for improved compatibility and transparency in anionic surfactant systems. It delivers excellent moisturization, smoothing and anti-frizz effect and is even capable of improving the quality of the foam which appears creamier, softer and shinier.

GREENQUAT® BT is the ideal solution both for skincare and haircare products for children, it is very gentle and does not have the typical unpleasant smell of amines.

## DOSAGE LEVEL

GREENQUAT® BT comes in liquid form and can be used in cold processing. Dosages between 0.25 and 0.5% can replace the need to use silicone derivatives to contrast static charge.

To obtain a conditioning effect, the suggested percentage of use is between 1 - 5 % for retail products and up to 7% for professional use.

## ANTI-MICROBIAL ACTIVITY

GREENQUAT® BT presents an antimicrobial effect against gram + (Escherichia coli - Pseudomonas aeruginosa) and gram - (Staphylococcus aureus - Staphylococcus epidermidis) bacteria, yeasts and molds (Candida albicans - Aspergillus brasiliensis).

The antimicrobial activity has been evaluated with the most reliable and widely used techniques: the Minimum Inhibitory Concentration (MIC) and the Minimum Bactericidal Concentration (MBC) methods.

MIC is a reproducible technique to test bacterial sensitivity of a formulation by identifying the lowest concentration that inhibits microbial growth (bacteriostatic action). The MBC is the lowest concentration able to induce a 99.9% reduction of the microbial load (bactericidal action).

GREENQUAT® BT shows both bacteriostatic and bactericidal activity against the reference strains. It is particularly effective against Staphylococcus aureus, Staphylococcus epidermidis and Escherichia coli (MIC 11.1% and MBC at 33.3%). The MIC and MBC effective concentration against Candida albicans and Aspergillus brasiliensis is equal to 11.1%.

GREENQUAT® BT results in best efficacy on Pseudomonas aeruginosa (MIC 3.7% and MBC 11.1%) as well as on yeasts and molds.

## PACKAGING & SHELF LIFE

Available packaging  
20 kg drums / 200 kg drums

Shelf life  
36 months

## APPLICATIONS

### Cosmetics

- Shampoos
- Conditioners
- Body care
- Cleansing lotions

This product is not available in Germany, UK, Italy, USA, India

### Fragrances

### Pharmaceuticals

### Natural extracts

## BENEFITS

- 100% Natural
- Non-GMO
- Petrochemical-free
- Palm-free
- Quat polymers-free
- Compliant with Cosmos and NaTrue standards
- Non-toxic
- Non-irritating
- No animal test
- Non-sensitizing
- Readily biodegradable

## REGULATORY

ECOCERT/COSMOS

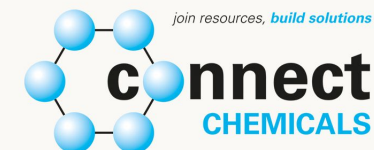
NATRUE

NATURALITY INDEX (according to ISO16128)

Approved

Allowed

1 (derived natural)



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