MICROCARE® QUAT LDG

Product Information

INCI: Diolivoylethyl Dimonium Chloride, Oleyl Alcohol, Glyceryl Oleate, Glycerin

Function: Conditioning active

ISO 16128: 90,4% (Natural Origin Content)

Use Level: 0,5 – 5,0% **Working pH:** 4,0 – 6,5 (recommended 4,5 – 5,0)

General Description:

MICROCARE® Quat LDG is a versatile, liquid multi-purpose conditioning agent that excels in performance and sustainability. It supports cold-processability, is readily biodegradable, and is derived from renewable sources like olive oil and RSPO-certified palm-based feedstock. This adaptability makes it an essential ingredient in a wide range of personal care products, including hair and skin care and wet wipes, enhancing each specific formula with customizable benefits.

Surfactant Systems

Performance

- Easily incorporates into surfactant systems and for transparent formulations also thanks to a premix with two well-known solubilizer agents (P*olyglyeryl-4 Caprate & PEG-6 Caprylic/Capric Glycerides)* and **MICROCARE® Quat LDG** at (1:1:1) before adding it to the rest of the formulation.
- Crystal clear, characteristic oily colour and odour.
- No pH changes during stability testing.
- It can change the viscosity depending on the surfactant system, but it is easily adjustable.

Emulsions

Performance

- Easy to incorporate in emulsions.
- It can be easily added to the oil phase before the emulsification process, whether in cold or hot process formulations.
- Colourless to slightly pale yellow and almost odourless.
- No pH changes during stability testing.
- No viscosity changes during stability testing.

Compatibility

- Chelating agents such as *Natrlquest E30* (INCI: *Trisodium Ethylenediamine Disuccinate)* or *Disodium EDTA*
- Cationic polymers such as *Polyquaternium-37* or *Simulquat* (INCI: *Acrylamidopropyltrimonium Chloride/Acrylates Copolymer (and) Isohexadecane (and) Coceth-7).* Acrylic polymers such as *Sodium Polyacrylate, Carbomer, Acrylates/C10-30 Alkyl Acrylate Crosspolymer.*
- Consistency agents such as *Cetearyl Alcohol or Behenyl Alcohol.* Non-ionic cellulose such as *Hydroxyethylcelulose.*
- Emulsifiers *Montanov 202* (INCI: *Arachidyl Alcohol (and) Behenyl Alcohol (and) Arachidyl Glucoside), Steareth-21, Glyceryl Stearate or Cetyl Alcohol*.
- Other ingredients *Sodium Laureth Sulfate, Glyceryl Laurate, Sodium Hydroxide, Lactic Acid, Citric Acid, Sodium Chloride or Caesalpinia Spinosa Gum.*

Incompatibility

- Chelating agent such as *Dissolvine GL47* in emulsions but compatible in surfactant systems (INCI: *Tetrasodium Glutamate Diacetate)*
- Emulsifiers such as *Olivem 1000* (INCI: *Cetearyl Olivate (and) Sorbitan Olivate)*
- Thickeners like *Sphingomonas Ferment Extract*, and anionic Polysaccharide such as *Xanthan Gum.*
- Buffering agents: Sodium Citrate, Sodium Lactate.

Recommended Formulations

Cleansing Oil Make-up Remover & Deep Hydration
*(2% **MICROCARE® Quat LDG**)*

Cold Process Shampoo Repair & Protect
*(1% **MICROCARE® Quat LDG**)*

Cold Process Conditioner Frizz-Free & Hair Repair
*(2% **MICROCARE® Quat LDG**)*

Hydra Power Gel-Cream Elasticity Booster & Deep Hydration
*(2% **MICROCARE® Quat LDG**)*

Scalp Revival Elixir
*(3% **MICROCARE® Quat LDG**)*

Recommended Dose by Formulation Type

Surfactant Systems: 0,5 – 1%
Emulsions: 1 – 5%

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