

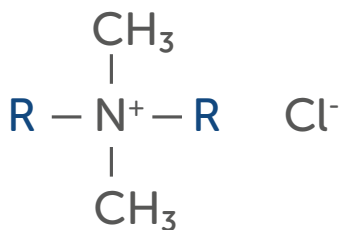


## Arquad® PC SV-60 PG surfactant

A sustainable vegetable derived conditioning agent

INCI: Soytrimonium Chloride (and) Propylene Glycol

Arquad® PC SV-60 PG surfactant is a multifunctional and versatile cationic conditioning agent made from renewable resources. It is a soy-based mono-alkyl quaternary ammonium compound in propylene glycol solvent. Due to its cationic nature and unique structure, Arquad® PC SV-60 PG surfactant is substantive to both hair and skin, providing excellent conditioning and emulsification performance.



Arquad® PC SV-60 PG surfactant improves detangling and wet combing of all hair types. It provides excellent wet feel while enhancing dry combing and leaving a smooth after feel. Arquad® PC SV-60 PG surfactant is compatible in a wide pH range allowing for stable formulations.

Arquad® PC SV-60 PG surfactant provides benefits in a variety of hair care systems including temporary, semi and permanent hair colorant products.

Arquad® PC SV-60 surfactant is a multi-functional, versatile conditioning agent that can be used in a wide range of personal care applications to provide the following benefits:

- Conditioning
- Static reduction
- Promotes deposition of silicones
- Emulsifies/stabilizes
- Provides unique texture
- Enhances sensory properties

Arquad® PC SV-60 PG surfactant is easy to handle and allows for cold processing which minimizes energy consumption.

### Recommended applications

The excellent conditioning performance and emulsification properties of Arquad® PC SV-60 PG surfactant make it suitable to use in a variety of personal care applications such as:

- Hair conditioners
- Cleansing conditioners
- Hair detangling sprays
- Hair treatments/masks
- Conditioning shampoo/cleansers
- Hair styling products
- Skin creams/lotions
- Sun care products

## Product highlights

Features	Benefits
Excellent conditioning performance	Improves detangling of wet hair, superior dry combability, provides soft and silky after feel on hair and skin
Cationic surfactants	Substantive to hair and skin while being compatible with a wide range of ingredients including nonionic, cationic, and mild anionic surfactants and polymers
Readily biodegradable	Environmentally friendly
Excellent toxicity profile	Safe to use in a variety of personal care rinse-off and leave-on applications
Soya derived	Based on renewable resources (vegetable)
Liquid form	Easy to handle and allows cold processing
Cationic emulsification	Provides stabilization and unique aesthetics Enhances the sensory properties of emulsions and leaves the skin with a smooth, dry powdery feel Reduces tackiness in high oil load formulations such as sun care products
Wide pH range	Formulation latitude including hair colorant applications
Non-flammable	Ease of handling and transportation

## Suggested use levels, as supplied

Application	% active
<b>Hair care</b>	
Hair conditioners	0.5-2.5
Conditioning styling aids	0.2-0.5
Conditioning shampoos	0.2-0.5
<b>Skin care</b>	
Rinse-off	1.0-2.5
Leave-in	0.2-0.5

## Formulation guidelines

Arquad® PC SV-60 surfactant as conditioning agent is:

- Easy to use, non-flammable liquid
- Easily incorporated into either the aqueous or oil phase
- Compatible with most ingredients except strong anionic surfactants. However, it is used in mild or amphoteric shampoo formulations to provide conditioning benefits.
- Stable at a wide pH range which make it suitable for difficult product applications such as hair colorants

### Compatibility

The cationic nature of Arquad® PC SV-60 PG surfactant allows it to perform with a range of ingredients such as nonionics, cationics, oils, silicones and other polymers.





## Performance properties

The light color, low odor, and liquid form, as well as the stability of Arquad® PC SV-60 PG surfactant, provide the flexibility to prepare high quality hair care products.

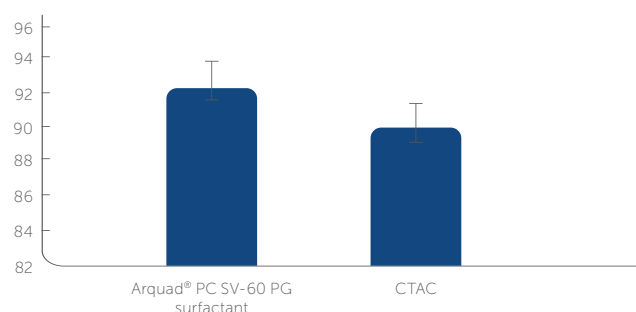
The conditioning benefits of Arquad® PC SV-60 PG surfactant are easily demonstrated in the following basic rinse-off conditioner formulation on European, damaged hair swatches.

The Dia-stroon MTT-160 instrument was utilized to measure the required force to comb through the hair swatches before and after the conditioner treatments, six swatches for each conditioner. The values obtained were then averaged and placed in a statistical analysis template to measure the percent combing force reduction. Values were reported at an 80% confidence level.

### Basic rinse-off conditioner formula

Ingredient	Wt %
Stearyl alcohol	7.00
Ceteareth-12	1.00
EDTA	0.20
Cationic conditioner	2.00
Citric acid	QS

### Wet combability (Dia-stroon, damaged hair)



Wet combability performance of basic rinse-off formulations with 2% active Arquad® PC SV-60 PG surfactant on damaged hair using the Dia-stroon 80% confidence level, LSD interval=1.1

## Storage and handling

Keep container tightly closed. Store in a cool, well-ventilated area.

## Health and safety

Information on Arquad® PC SV-60 PG surfactant relating to the EU Cosmetics Directive 76/768/EEC is available on request.



Contact us directly for detailed product  
information and sample request  
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