MACKPRO®PLUS SILK-C

INCI Name: Cocodimonium Hydroxypropyl Hydrolyzed Silk Protein
CAS No.: 162353-59-5
EINECS No.: 500-696-0

Product Description

MackproPlus Silk-C is a vegetable-derived cationic conditioner based on hydrolyzed silk protein and coconut oil. **MackproPlus Silk-C** has a lower molecular weight allowing this cationic protein to penetrate deep into the hair shaft, thus strengthening damaged hair. **MackproPlus Silk-C** is highly substantive providing excellent moisturizing and film-forming properties, which improve body, shine, and combability. This improvement in combability and detangling is demonstrated in two different studies on Caucasian and Asian hair (via Dia-Stron™ measurements). **MackproPlus Silk-C** is compatible with all surfactant classes and has been proven to not depress foam in anionic systems.

Specifications

Appearance @ 25°C	Clear
Odor @ 25°C	Typical
pH, as is, @ 25°C	4.5 – 5.5
Solids, 105°C 2G2HR w/PAD	19.0 - 22.0
Ash, %	4.0 Max
Gardner Color @ 25°C	12 Max

Typical Properties

Specific Gravity, @ 25°C	1.08
Molecular Weight (Av.)	800-1500
Nitrogen % (Average)	1.7
Total Plate Count (CFU/g)	< 10
Gram Negative Bacteria	Absent

Principal Uses

Conditioning Shampoos	1-5%
Hair Conditioners	3-5%
Conditioning Mousses	3-5%
Facial and Hand Cleaners	1-3%

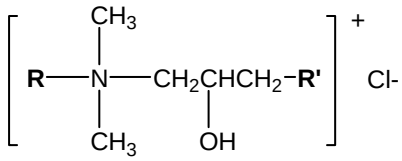
Shelf Life

24 months from date of manufacture.

Packaging

Available in 140 lb. (63.5 kg) drums and 5 gallon pails.

Chemical Structure



Where **R** represents alkyl groups derived from coconut oil and **R'** represents hydrolyzed silk protein moiety

Regulatory

Mackpro Plus Silk-C

TSCA:	Not Listed	Japan:	No Info
EU:	Listed	Korea:	Not Listed
Australia:	Not Listed	New Zea:	Not Listed
Canada:	Not Listed	Philipp:	No Info
China:	Not Listed	Swiss:	No Info

Mackpro Plus Silk-C is not on EPA's TSCA open inventory and is thus to be used only for exempt applications such as cosmetics in the U.S.

Storage and Handling

Mackpro Plus Silk-C should be stored in sealed containers below 30°C in a dry place out of direct sunlight. If material becomes hazy after exposure to cold gently heat to 35°C and mix before use. Handle between 25°C – 35°C. Avoid prolonged exposure to heating as this may lead to degradation.

For orders or questions, call us at the following numbers or visit us at www.rhodia-novecare.com

North America 1-888-776-7337
Europe – Middle East – Africa (33) 01 53 56 50 00
Asia – Pacific (65) 62 91 19 21
Latin America (55) 11 37 47 78 86

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Model Formulations

Pure Silkiness and Moisturizing Conditioner (#621)

Ingredient	% by Weight	Function
Water, soft	q.s.	Carrier
Cetearyl alcohol	3.2	Thickener
Mackernium® SDC-85 (Stearalkonium Chloride (and) Cetearyl Alcohol (and) Propylene Glycol)	1.7	Conditioner
Mackpro®Plus Silk-C (Cocodimonium Hydroxypropyl Hydrolyzed Silk)	2.0	Shine & Strength
Lactic Acid	q.s.	pH adjust
Mackstat® DM (DMDM Hydantoin)	q.s.	Preservative
Fragrance, Dye	q.s.	Aesthetics

Sheen and Body Infusing Conditioner for Curly Hair (#616)

Ingredient	% by Weight	Function
Water, soft	q.s.	Carrier
Mackamer® 400DS (Hydroxypropyl Guar)	1.0	Thickener
Mackconditioner™ Essential (Cetearyl Alcohol (and) Stearamidopropyldimethylamine (and) Stearamidopropalkonium Chloride)	7.0	Conditioner Blend
Mackpro®Plus Silk-C (Cocodimonium Hydroxypropyl Hydrolyzed Silk)	4.0	Strengthening, Shine
Citric Acid	q.s.	pH adjust
Mackstat® DM (DMDM Hydantoin)	0.4	Preservative
Fragrance, Dye	q.s.	Aesthetics

WARNING
The information contained in this document is given in good faith and based on our current knowledge. It is only an indication and is in no way binding, notably as regards infringement of or prejudice to third parties through the use of our products. RHODIA GUARANTEES THAT ITS PRODUCTS COMPLY WITH ITS SALES SPECIFICATIONS.
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