Product Description
MackproPlus Rice-C is a vegetable derived cationic conditioner based on hydrolyzed rice protein and coconut oil. MackproPlus Rice-C is highly substantive which helps to strengthen, moisturize, and condition damaged hair. This product provides excellent wet combability, superior dry combability, and detangling as demonstrated in two different studies on Caucasian and Asian hair (via Dia-Stron™ measurements). MackproPlus Rice-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, %: 3.0 Max
- Gardner Color @ 25°C: 12 Max

Typical Properties
- Specific Gravity, @ 25°C: 1.07
- Molecular Weight (Av.): 2000-3000
- Nitrogen % (Average): 2.5
- Total Plate Count (CFU/g): < 10

Chemical Structure
Where R represents alkyl groups derived from coconut oil and R’ represents hydrolyzed rice protein moiety.

Regulatory
Mackpro Plus Rice-C
- TSCA: Not Listed
- Japan: No Info
- EU: Exempt
- Korea: Not Listed
- Australia: Not Listed
- New Zea: Not Listed
- Canada: Not Listed
- Philipp: No Info
- China: Not Listed
- Swiss: No Info

Mackpro Plus Rice-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.

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.

Storage and Handling
Mackpro Plus Rice-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.
**Model Formulations**

*Natural Conditioner for Normal to Oily Hair (#701)*

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Weight</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water, soft</td>
<td>q.s. to 100</td>
<td>Carrier</td>
</tr>
<tr>
<td>Mackernium® C14U (Guar Hydroxypropyltrimonium Chloride)</td>
<td>0.5</td>
<td>Conditioner</td>
</tr>
<tr>
<td>Mackamer® 400DS (Hydroxypropyl guar)</td>
<td>0.25</td>
<td>Thickener</td>
</tr>
<tr>
<td>Mackconditioner™ Natural (Cetearyl Alcohol (and) Glyceryl Stearate (and)</td>
<td>6.0</td>
<td>Conditioner</td>
</tr>
<tr>
<td>Stearalkonium Chloride)</td>
<td></td>
<td>Blend</td>
</tr>
<tr>
<td>Propylene Glycol Dicaprylate/Dicaprate</td>
<td>1.5</td>
<td>Emollient</td>
</tr>
<tr>
<td><strong>Mackpro® Plus Rice-C</strong> (Cocodimonium Hydroxypropyl Hydrolyzed Rice Protein)</td>
<td>2.0</td>
<td>Conditioner</td>
</tr>
<tr>
<td></td>
<td></td>
<td>enhance dry comb</td>
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<tr>
<td>Citric Acid</td>
<td>q.s.</td>
<td>pH adjust</td>
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<tr>
<td>Mackstat DM (DMDM Hydantoin)</td>
<td>0.4</td>
<td>Preservative</td>
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<tr>
<td>Fragrance, Dye</td>
<td>q.s.</td>
<td>Aesthetics</td>
</tr>
</tbody>
</table>

**WARNING**

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