Mackine® 601
INCI Name: Behenamidopropyl Dimethylamine
CAS No.: 60270-33-9
EINECS: 262-134-8

Product Description
Mackine 601 is behenyl amido-amine available in an easy to handle flake form. It can be neutralized with a variety of acids, e.g., citric, lactic, to form a cationic amine salt. Mackine 601 provides the conditioning properties to creme rinses, finishing rinses or conditioners. The major advantage the amine salts offer over quaternary ammonium compounds is that they can be rinsed more easily from the hair, thus reducing the possibility of surfactant buildup. When blended with the proper co-emulsifier, e.g., cetyl alcohol, PEG 400 distearate, both pearled or opaque type conditioners can be developed.

Specifications
- Appearance @ 25 Deg C: Waxy Flake
- Color Gardner @ 65 Deg C: 5 Max
- Acid Value: 5.0 Max

Chemical Structure
\[
\begin{align*}
\text{CH}_3 (\text{CH}_2)_{20} & \text{C} \quad \text{O} \\
\text{NH} (\text{CH}_2)_{3} & \quad \text{N} \\
\text{CH}_3 & \hspace{5cm} \text{CH}_3
\end{align*}
\]

Typical Properties
- Amine Number: 135 – 150
- Free DMAPA, %: < 0.3
- Total Plate Count (CFU/g): 10 Max
- Gram Negative Bacteria: Absent

Regulatory
- TSCA: Exempt
- EU: Not Listed
- Japan: Not Listed
- Korea: Not Listed
- Australia: Not Listed
- New Zea: Not Listed
- Canada: Not Listed
- Philipp: Not Listed
- China: Not Listed
- Swiss: Unknown

Principal Uses
- Cream Hair Conditioners: 1% - 3%
- Skin Care Lotions: 1% - 2%
- Liquid Conditioner: 0.5% - 1%

Storage and Handling
Mackine 601 should be stored in sealed containers below 30°C in a dry place out of direct sunlight. Handle between 25°C – 35°C. Mackine 601 will require heat to incorporate, 75°C until dissolved is recommended. The neutralizing acid should be added prior to the Mackine 601 to avoid solubility issues.

Shelf Life
Shelf life 48 months from date of manufacture.

Packaging
Available in bulk and 200 pound fiber drums.

WARNING
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