

Natural  
Vegetable  
Functional

The Lipid Expert!

## Lipex<sup>®</sup> Genova

- Innovative soft emollient from palm oil
- High melting point gives even higher temperature stability
- Developed for intensive skin care, baby products and lip treatments

### Product name

Lipex<sup>®</sup> Genova

### INCI name

Elaeis Guineensis

### Physical form/Consistency at 20 °C

Soft solid

### Regulatory Status

CTFA

### Recommended use levels

1-5% - light and moderately light emulsions.

5-15% - moderate to heavy emulsion and emulsion based butters.

1-30% - anhydrous formulations.

### Product Data Sheet/Article number

8608

### Formulations

JT-04-02, Cost Effective Skin Cushion with Lipex<sup>®</sup> Genova

JT-05-01, Cream Gel with Lipex<sup>®</sup> Genova

August 2008

### Functionality and benefits

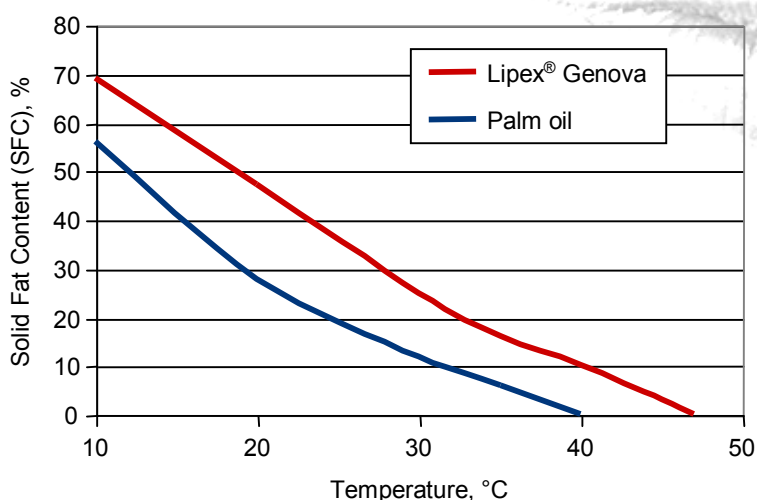
Lipex<sup>®</sup> Genova is an innovative emollient based on palm oil, carefully purified using AarhusKarlshamn's unique technology to give a functional cosmetic ingredient with high and consistent quality.

Palm oil is a very well known and extensively utilised raw material for applications within foods, cosmetics and pharmaceuticals. The unique composition of palm oil makes it ideally suited for skin care and cosmetic applications since a suitable consistency combined with good oxidative stability can be obtained.

### Unique technology

Lipex<sup>®</sup> Genova takes palm oil technology one step further to increase applicability in skin care applications, improving high temperature stability while retaining a soft texture at room temperature.

Fig.1 Melting profiles of Lipex<sup>®</sup> Genova compared with Palm oil



**Natural  
Vegetable  
Functional**



**The Lipid Expert!**

**High melting point gives even higher temperature stability**

Lipex® Genova offers a high melting point (47 °C) and high temperature stability in combination with low solids content at room temperature, making the ingredient soft and plastic.

The solids content at different temperatures (figure 1) is a good indicator of the consistency. Important temperature ranges are 20-25 °C (room temperature), 35-37 °C (body temperature) and 40°C (a common storage test temperature). A solid content of 40-50% at 20°C gives softness and a plastic consistency. The solids remaining at 40 °C are enough to retain the stability but sufficient melting has taken place at body temperature to give a nice skin feel and spreadability.

**Rapid crystallisation gives good shelf-life**

Lipex® Genova crystallises and stabilises rapidly into the preferred crystal form, also when the level in the formulation is high. This makes Lipex® Genova an ideal ingredient in body butters and balms with a high content of vegetable lipids.



**Applications**

Lipex® Genova is designed primarily for use in moisturising creams and lotions, especially when a high emollient load is desired. It is suitable for all types of intensive care creams where the combination of good texturising effects and skin moisturisation is desired for optimal performance. Another preferred area of application is in baby care products where the high purity and non-occlusive emolliency of Lipex® Genova is appreciated.

The stable crystallisation behaviour makes it possible to use Lipex® Genova as the sole emollient in an emulsion. When used in combination with other emollients, both liquid and solid emollients show a good compatibility with Lipex® Genova. Anhydrous formulations such as lip and body balms can also be formulated using Lipex® Genova. The optimised melting behaviour gives high temperature stability (up to 40-45 °C) while the soft consistency at room temperature gives an easily spreadable product.

Lipex® Genova is purified to a high and even quality from selected food-grade palm oil fractions. It has low colour and odour, which makes it a suitable ingredient in high-quality cosmetic formulations.

