

Personal Care

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## Lipex Omega 3/6™

Safe, efficient delivery system to protect and deliver essential fatty acids that improve skin health

emollients

# Lipex Omega 3/6™

Lipex Omega 3/6 is a safe and efficient delivery system for essential fatty acids that combines attractive skin functionality for consumers, with an advantage for the cosmetic manufacturer in terms of easy handling.

## Omega fatty acids restore skin health

Lipex Omega 3/6 meets the demand for healthy products in personal care applications, offering an optimised balance of Omega-3 and Omega-6 fatty acids. The sensitive omega fatty acids are stabilised in a highly stable vegetable oil environment including natural tocopherols. This provides good protection against oxidation in order to ensure skin health and avoid negative effects of oxidised fatty acids.

Topically applied essential fatty acids are readily utilised by the skin to balance potential deficiencies and

relieve dry skin conditions. This is of importance for chronic skin deficiencies as well as for skin damaged by surfactants, such as detergents and shampoos, or just by dry environmental conditions.

Lipex Omega 3/6 offers a well-balanced content of omega fatty acids, both linoleic and linolenic acid. Linoleic acid (omega-6 fatty acid), the dominating essential fatty acid in the skin, is typically found in skin ceramides. Ceramides play an important role in maintaining the epidermal water barrier, preventing excessive transepidermal water loss and protecting against dryness. The omega-3 fatty acid (alpha-linolenic acid from Gold of Pleasure seed oil) is mainly known for its anti-inflammatory metabolites. The combined and stabilised essential fatty acids in Lipex

Omega 3/6 target the skin directly, keeping the skin well balanced and healthy.

## Longer shelf life and easy handling

Lipex Omega 3/6 is designed to be more resistant against UV-induced oxidation compared to traditional polyunsaturated oils, which are often associated with odour and colour problems. Accelerated oxidation tests show that Lipex Omega 3/6 has improved stability both in formulation and on the skin, providing a stable and efficient delivery system for essential fatty acids.

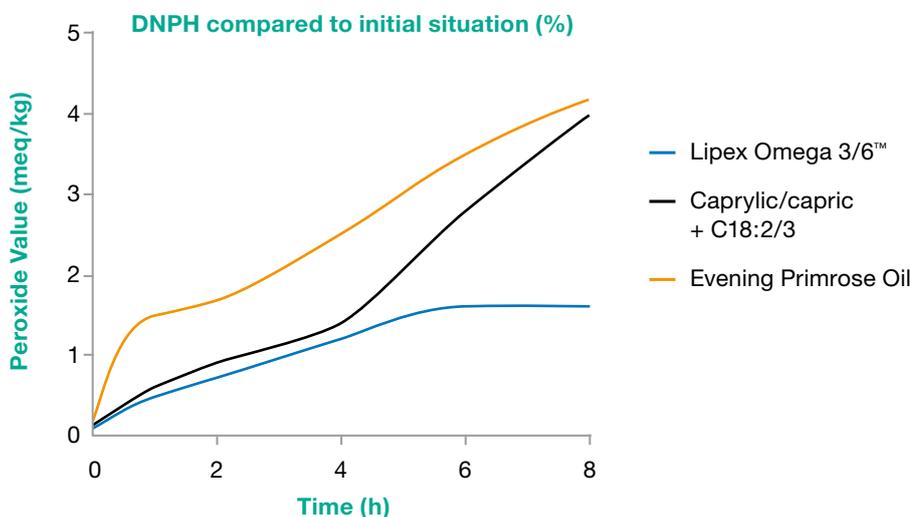
Once the oxidation process has started, it accelerates. Therefore, very careful handling and storage of polyunsaturated oils is essential in the manufacturing process. The high oxidative stability of Lipex Omega 3/6, however, makes the manufacturing process easier by shortening process times and easing the otherwise demanding requirements for storage conditions of the raw materials.

## Applications and Claims

Lipex Omega 3/6 is used as a marketing ingredient, building on consumers' recognition of the skin health benefits of Omega-3 & Omega-6. This effective delivery system makes it possible to create stable and safe formulations for a broad range of skin care applications. It also adds moisturisation in cleansing products such as make-up removers. The recommended concentration ranges from 2–5% in moisturising skin care formulations and dermocosmetics for facial and body care. Higher levels will improve demanding formulations for extremely stressed or sensitive skin.

- ◆ restores skin health
- ◆ protects and delivers essential fatty acids
- ◆ simplifies handling and storage

### Lipex Omega 3/6™ is stable against UV induced oxidation



<b>Product name</b>	Lipex Omega 3/6™
<b>INCI name</b>	Olus Oil (and) Camelina Sativa Seed Oil (EU) Vegetable Oil (and) Camelina Sativa Seed Oil (US)
<b>Physical form 20 °C</b>	Clear liquid
<b>Regulatory status</b>	Cosmetics Regulation 1223/2009 (EU) REACH Exempted (Annex V.9 & Annex IV SDA 11)
<b>Approvals</b>	HALAL COSMOS

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