



Lipex[®] Omega 3/6

Safe & efficient delivery system for essential fatty acids



Lipex® Omega 3/6

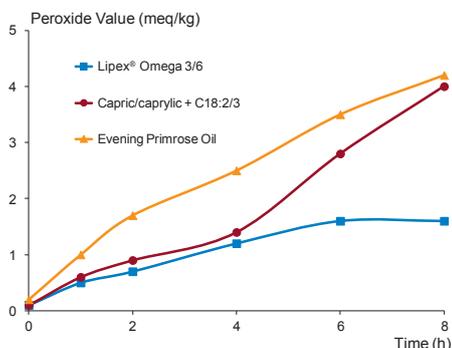
Omega fatty acids restore skin health

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, providing good protection against oxidation in order to improve skin health and avoiding the negative effects of oxidised fatty acids.

Topically applied essential fatty acids are readily utilised by the skin in order 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 by dry environmental conditions.

Lipex® Omega 3/6 is stable against UV induced oxidation

Comparison of oxidation resistance of different polyunsaturated oils at simulated outdoor conditions



Linoleic acid (omega-6 fatty acid) is the dominating essential fatty acid in the skin and 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 will accelerate so very careful handling and

storage of polyunsaturated oils is essential in the manufacturing process. The high oxidative stability of Lipex Omega 3/6 makes the manufacturing process easier by shortening process times and making less 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. It makes it possible to create stable and safe formulations for a broad range of different skin care applications. The recommended use concentration ranges from 2-3% in moisturizing skin care formulations and dermocosmetics for facial and body care. It also adds moisturization in cleansing products such as make-up removers. Higher levels, up to 5%, will improve demanding formulations for extremely stressed or sensitive skin. Lipex Omega 3/6 combines attractive skin functionality for consumers with an advantage for the cosmetic manufacturer in terms of sales success.

Also available:

- Lipex Omega EPO with Evening Primrose Oil
- Lipex Omega Passiflora with Passionflower seed oil

- Essential fatty acid delivery for improved skin health
- Long shelf life formulations
- Easy handling and storage

Sustainability



Safety



Renewability



Raw materials



Processes

Product name	Lipex® Omega 3/6
INCI name	Olus Oil (and) Camelina Sativa Seed oil
Product group	Emollients
Physical form 20 °C	Clear liquid
Regulatory status	Cosmetics Regulation 1223/2009 (EU) REACH Exempted (Annex V.9 & Annex IV SDA11) Ecocert