

Emollients – Emollient Esters

INCI NAME: SHEA BUTTER ETHYL ESTERS

LIPEX[®] SheaSolve[™]

This eco-friendly shea-derived emollient ester offers excellent wetting, dispersing and solubilizing properties, and is ideal for sun care and UV protection formulations.

Lipex SheaSolve can be used with mineral and organic UV filters, effectively solving complex challenges, such as combining appealing texture and other sensory benefits with high SPF. And it shows SPF boosting properties when used with mineral UV filters.

Its low viscosity, high polarity and good solubilizing properties allow Lipex SheaSolve to be combined with other ingredients for functional use across various cosmetic applications and formats, including stick and sprayable formulations.

Derived from sustainable shea and containing 100% carbon from renewable sources, Lipex SheaSolve is produced using energy-saving catalysts and processes. In addition, the low melting point means it is suitable for cold processing, making it an environmentally-friendly choice all around.



Recommended applications: sun care and UV protection, hair care, skin care and cleansing applications

Appearance: clear, slightly yellow liquid

Slip melting point: 10 °C

Viscosity: 15 mPa-s @20 °C, 11 mPa-s @40 °C

Polarity: surface tension 25 mN/m, interfacial tension 13 mN/m

Certifications: COSMOS Approved, China Compliant, Vegan-friendly

Solubilizing
Dispersing
Highly polar
Fast-spreading
Eco-friendly
Ethically sourced

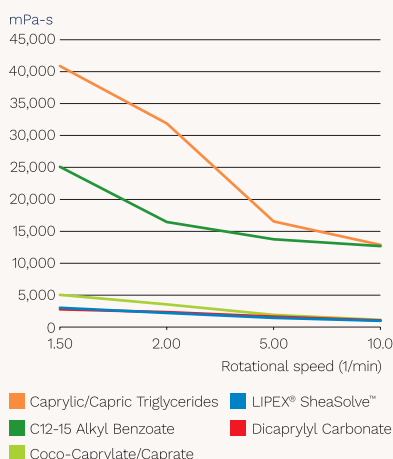
LIPEX[®] SheaSolve[™] for sun care and UV applications

Key features and benefits:

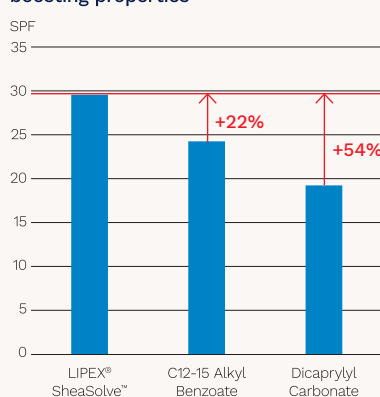
- Good solubilizing and dispersion capacity for both organic and inorganic UV filters make Lipex SheaSolve suitable for use in all types of sun care where a high SPF in combination with good aesthetics is essential.
- Comparative studies on Lipex SheaSolve show effects on providing lower viscosity to dispersions containing high levels of mineral filters. The lower viscosity translates into a better wetting of the particles, which means the dispersant secures a lower agglomeration, making it more efficient than other natural or synthetic emollients such as C12-C15 Alkyl Benzoate. The resulting benefits include lower ghosting, better absorption, and improved finish in formulations.
- The in-vitro study shows that when used with mineral UV filters Lipex SheaSolve provides an SPF boosting effect vs the other alternatives. By delivering above the expected SPF value (in this case, 28), formulators can be confident that they can reach the SPF value needed without adding more mineral filters.

LIPEX[®] SheaSolve[™] shows superior wetting of mineral filters

Viscosity of 40% zinc oxide dispersions



LIPEX[®] SheaSolve[™] shows SPF boosting properties



Formulation suggestions:

SUN PROTECTION:

SunSafe Mineral Stick SPF 50
AAK-22-002

CreamUp Sun Care Spray SPF 30
AAK-22-001

Sun Care Lotion SPF 30
AAK-14-03

DAILY UV PROTECTION:

DermaShield Daily Moisturizer SPF 30
AAK-22-003

Urban Defence Daily Face Cream SPF30
AAK-17-312

AFTER SUN CARE:

After Sun Soothing Spray Oil
AAK-14-278

Organic UV filter solubilizer
Mineral UV filter dispersant
SPF booster
Low ghosting

Typical use concentrations:

5-20% in emulsions
20-80% in anhydrous products

Recommended AAK partner products:

- LIPEX[®] PreAct[™]
- LIPEX[®] SheaTris[™]
- LIPEX[®] Bassol C[™]
- LIPEX[®] SheaClear[™]
- LIPEX[®] SheaLiquid TR[™]
- LIPEX[®] SheaSoft TR[™]

LIPEX[®] SheaSolve[™] for skin care and cleansing applications

Key features and benefits:

- Delivers a silky-smooth, powdery skin feel and offers unique sensory properties, opening new possibilities for eco-conscious face and body care formulations with light textures and good aesthetics.
- Reduces viscosity, improves spreadability and lowers tackiness, making it an excellent sensory and performance enhancer for a wide range of skin care formulations, including massage oils.
- Low viscosity, high polarity and good solubilizing properties make Lipex SheaSolve an excellent choice for anhydrous and emulsion-based cleansing formulations, as it effectively dissolves skin impurities and all types of makeup, including waterproof products.



Formulation suggestions:

CLEANSING:

**Natural Glow
Eco-Conscious Face Polish**
AAK-16-251

**Black Magic Triple Action
Exfoliating Balm**
AAK-19-023

**Pure Start Dual-Phase
Cleanser**
AAK-15-310

SKIN CARE:

**Skin Care Night Recovery
Oil Drops**
AAK-14-245

**Moisture Rescue
Eco-Conscious Body Cream**
AAK-16-250

Cashmere Soft Hand Cream
AAK-18-2435

Solubilizer
Sensory enhancer
High polarity
Low viscosity
Silky
Smooth

Typical use concentrations:

1-20% in emulsions
5-70% in anhydrous products

Recommended AAK partner products:

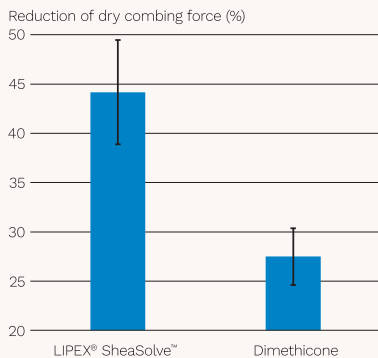
- LIPEX[®] PreAct[™]
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LIPEX[®] SheaSolve[™] for hair care applications

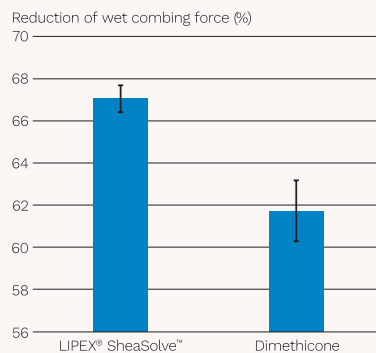
Key features and benefits:

- Lipex SheaSolve outperforms dimethicone to improve combability on both wet and dry hair, reducing the probability of hair breakage.
- An in-vivo preference test carried out by professional hairdressers showed that Lipex SheaSolve delivers similar sensory, spreadability and rinsability benefits as dimethicone throughout the whole washing process. And there was no significant difference in performance between the two.
- Low viscosity, high polarity, and good spreadability ensure uniform coating of hair fibers with a thin, weightless, moisturizing film to improve silkiness, shine and combability, making Lipex SheaSolve a good alternative to linear, low molecular weight silicones in hair care application.
- Readily biodegradable and 100% natural derived, Lipex SheaSolve can be combined with eco-friendly surfactants to produce environmentally-safe shampoos and conditioners.

LIPEX[®] SheaSolve[™] outperforms dimethicone in reducing the dry combing force



LIPEX[®] SheaSolve[™] is superior to dimethicone in reducing the wet combing force



Formulation suggestions:

HAIR CARE AND STYLING:

Leave-in Conditioner
AAK-22-004

Lightweight Wave Defining Cream
AAK-16-272

SCALP TREATMENT:

Moisturizing Scalp Serum
AAK-14-225

Silicone alternative
Biodegradable
Ethically sourced
Low viscosity
High polarity
Fast-spreading

Typical use concentrations:

0.5% in shampoos
3-5% in conditioners
10-70% in hair oils
3-5% in scalp treatments

Recommended AAK partner products:

- LIPEX[®] Collect[™]
- LIPEX[®] PreAct[™]
- LIPEX[®] SheaTris[™]
- LIPEX[®] L'sens[™]
- LIPEX[®] SheaLiquid TR[™]