

The AAK logo is positioned in the top right corner. It consists of the letters 'AAK' in a bold, white, sans-serif font. The background of the entire page is a vibrant blue with several large, overlapping, translucent bubbles that create a sense of depth and movement. The bubbles vary in size and focus, with some appearing sharp and others blurred.

**AAK**

redefine  
natural

products  
2019



# redefine natural

**It's what we do.** Push the boundaries of possibilities through technologically advanced, sustainably sourced natural emollients.

**It's what we challenge you to do.** Use our value-adding solutions to develop innovative and superior quality formulations.

**It's what we can do together.** Change perceptions of natural ingredients and their use by continuously delivering sustainable performance without compromise.

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# join the movement

## “Natural”. “Sustainable”.

“Innovative”. Yesterday’s buzz-words are today’s new norm in the beauty industry. And as a formulator or manufacturer, you know that you need to stay one step ahead. So, if you’re looking to meet the increasing demand for more natural, eco-conscious beauty products that also deliver superior functionality and enhanced aesthetics, then we can help.

**Pioneering innovations in lipid technology.** At AAK Personal Care we have over 30 years’ experience in developing and manufacturing high-performance, value-adding botanically-derived emollients for the global beauty and personal care industry. Our specialist lipid expertise and technological knowledge are unparalleled, with our name a byword for excellence.

**Changing perceptions of natural.** The demand for cosmetics that offer additional environmental and social benefits is on the rise. But today’s beauty consumers are not prepared to compromise on product performance in the process. Our portfolio of sustainably sourced innovations pushes the boundaries of possibilities. Enabling the creation of safe, stable, sophisticated formulations that offer a new take on the meaning of natural.

**Our commitment to the planet shows.** AAK has been ranked among the 100 most sustainable corporations in the world. All of our products originate from natural, renewable sources and we are pledged to minimizing our carbon footprint, lowering waste and emissions and reducing consumption of energy and water. In acknowledgement of our achievements in these areas we have been granted the EcoVadis Gold Recognition Level.

**Support and knowledge sharing.** Our team is always on hand for customized training, technical assistance and claims substantiation. But we don’t stop there. We can also help with all aspects of the creative process, including inspiration, ideation and implementation. **We’re here for you.**



## our portfolio

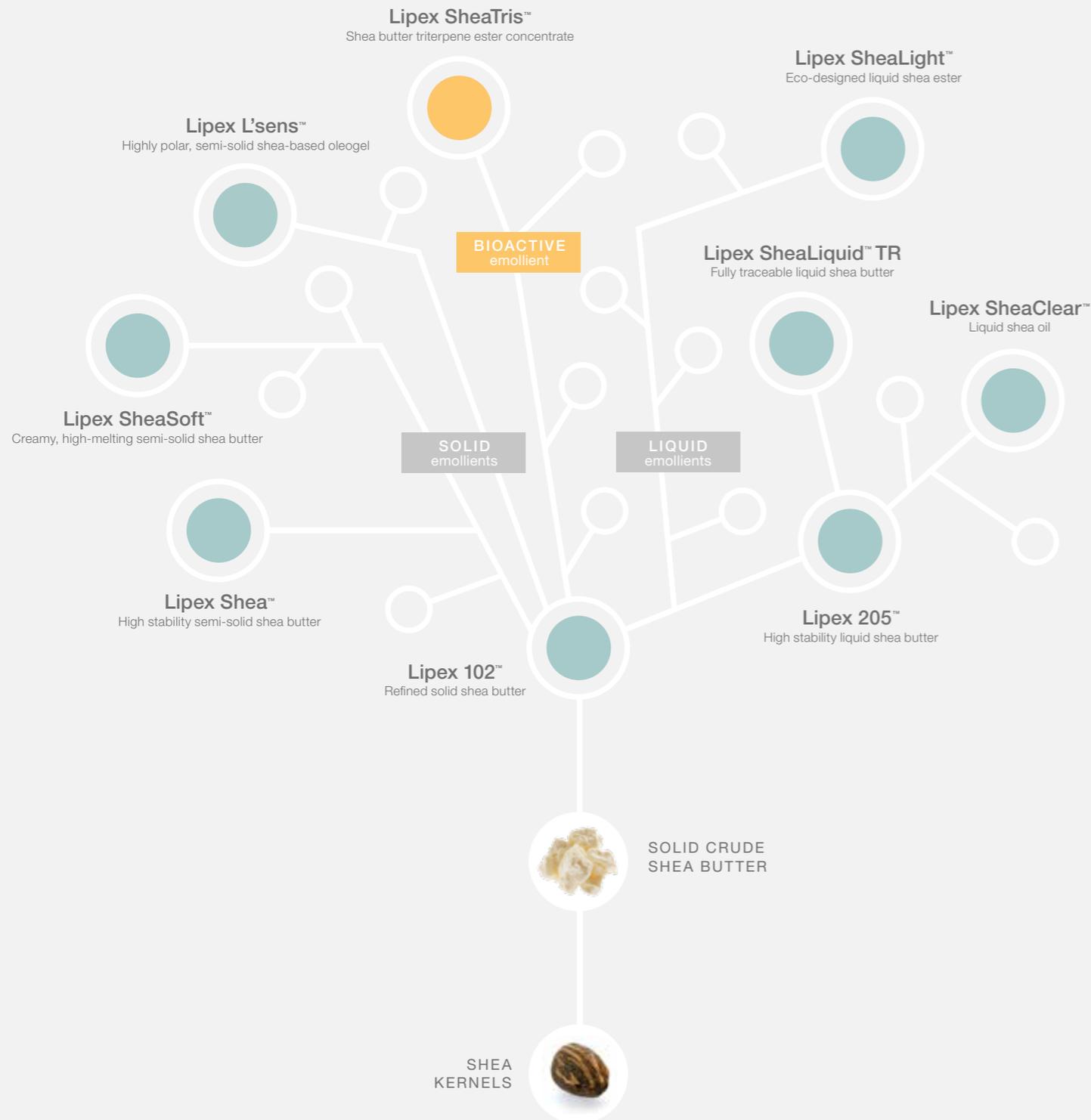
**Decades of experience within lipid technology** have enabled us to develop advanced, high-performance botanically-derived emollients with excellent stability and long shelf life. This expertise is evidenced by our comprehensive list of bioactives, esters, oleogels, oils and butters, all offering unique features, advantages and benefits to help you overcome specific formulation challenges, meet new trends and answer ever-changing consumer needs.

**The best of nature.** Sourced from shea, illipe, canola, cocoa, mango and more, each of our ingredients is carefully selected, processed, and in some cases combined, to obtain the exact chemical profile needed to enhance the efficacy, functionality and sensory appeal of your final formulations.

**The science of shea.** No one knows shea like we do. Our highly specialized AAK shea technology optimizes the physical and sensory characteristics of shea to allow increased functional use across the full range of cosmetic applications. From solid and semi-solid forms offering high temperature stability, low odor and improved color, to liquid versions that eliminate crystallization and enable clear, sprayable formulations.

# shea innovations

designed using AAK technology



**Making a positive difference.** Our shea-based innovations open up new opportunities not only for you as a cosmetic formulator, but also for the estimated 16 million women in West Africa who rely on shea for an income. Increasing demand from cosmetic manufacturers is helping to build a bigger, better shea industry and halt rural-urban migration in the region. Generating more earnings to empower the shea-collecting women,

improving local livelihoods and securing supplies for the future. A win-win outcome all round.

**Creating value and sustainability through direct sourcing.** Streamlined supply chains give local women more negotiating power, a higher income and greater independence. The AAK Kolo Nafaso direct sourcing program was introduced in Burkina Faso in 2009 and extended to Ghana

in 2015. Based on fair trade principles, including access to pre-financing, training and logistical support, the program involves over 134,000 women and continues to grow. And its success in contributing to alleviating poverty, ensuring better working conditions and providing a strong local infrastructure is confirmed through qualitative studies and an external audit.



**When it comes to protecting skin** against environmental stress and premature aging, our naturally-derived bioactives are proven to pack a powerful punch. With documented anti-inflammatory and collagen protecting properties, our natural based Lipex bioactives are effective even in low concentrations. They are ideally suited for anti-aging and anti-pollution cosmetic formulations, as well as those targeting sensitive skin.

**Harnessing the bioactivity of minor lipids.** Using our patented technology, we have been able to utilize the inherent bioactivity of the minor lipids found in sustainable sources of canola oil and shea butter. These range from anti-oxidative natural tocopherols (Vitamin E) to anti-inflammatory phytosterols and skin protecting and revitalizing triterpene esters.

**Well-documented functionality and skin tolerance.** Lipex bioactives are well-characterized lipophilic ingredients for safe use within beauty and personal care applications. Good skin tolerance with documented non-irritancy makes them well suited for premium facial skin care, dermo-cosmetics and applications for sensitive skin.

## bioactive emollients

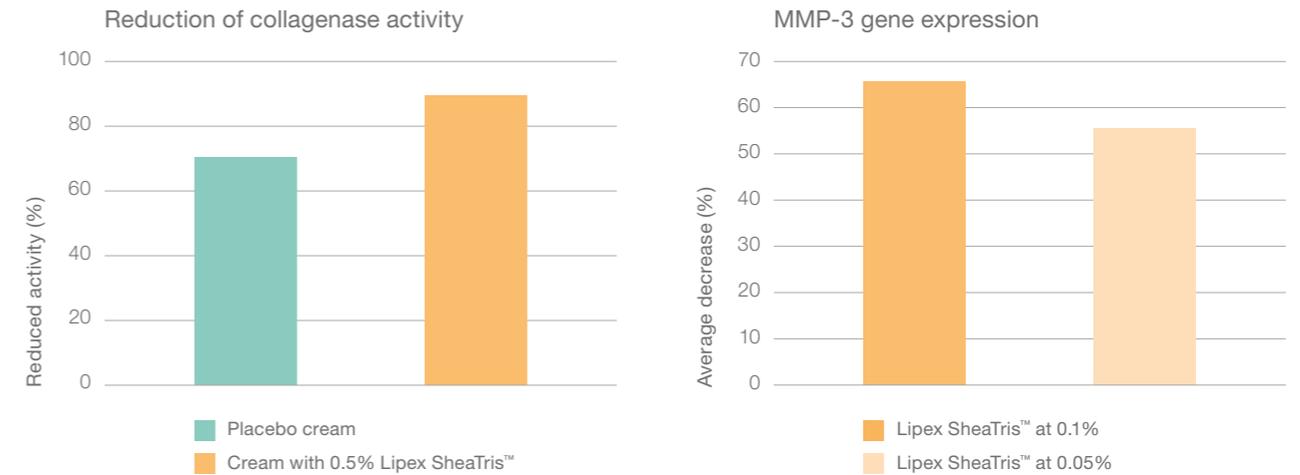
Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Lipex Collect™</b>	<i>Phytosteryl Canola Glycerides</i>	Highly stable canola-based concentrate of phytosterol esters (45%). Shown in in-vitro studies to have anti-inflammatory and skin soothing properties. Suitable for skin care formulations targeted at sensitive or mature skin.	0.5–2				
<b>Lipex PreAct™</b>	<i>Canola Oil</i>	Bioactive emollient derived from renewable canola oil. Naturally rich in antioxidant tocopherols and anti-inflammatory phytosterols with documented photoprotection and skin soothing benefits. Suitable for a wide range of cosmetic applications.	1–5	1–3		2–10	
<b>Lipex SheaTris™</b>	<i>Butyrospermum Parkii Butter Extract</i>	Shea butter triterpene ester concentrate shown to protect against environmental stress and premature skin aging. Ideally suited for skin care and dermo-cosmetics.	0.5–2				

## bioactive studies

**Lipex SheaTris™** has been shown to:

- Strengthen the skin barrier function to improve moisture retention and protect against environmental aggressors
- Protect skin against collagen degrading enzymes
- Reduce the activity of pro-inflammatory cytokines linked to premature aging

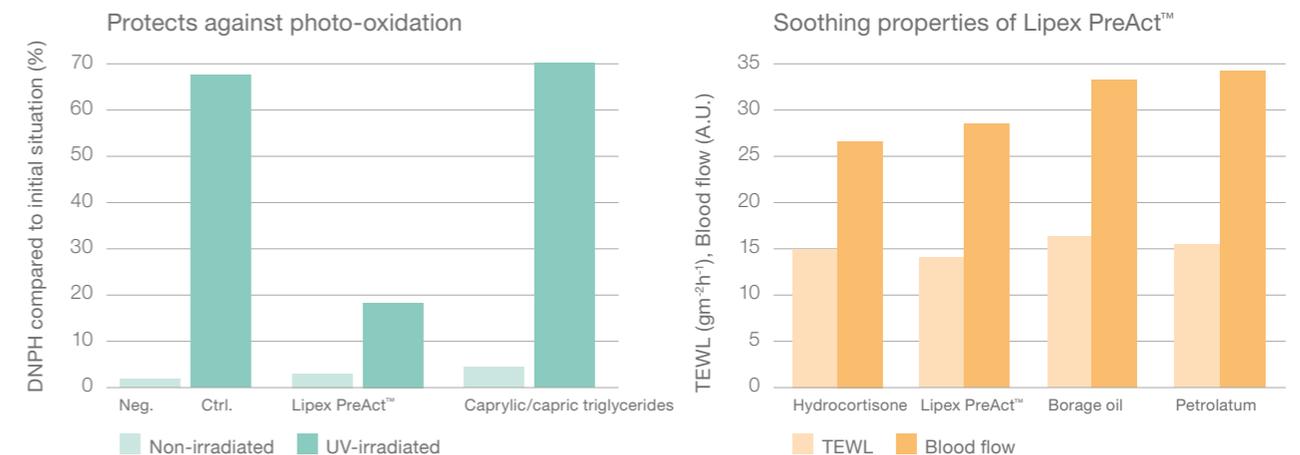
### Lipex SheaTris™ protects skin collagen structures and fights premature skin aging



**Lipex PreAct™** has been shown to:

- Protect both protein and cell membranes against UV radiation and reduce the formation of inflammatory mediators, making it particularly suitable for after-sun and environmental protection formulations
- Soothe, calm and restore the skin barrier after surfactant-induced damage, making it an excellent choice for skin care applications targeted at sensitive and delicate skin

### Lipex PreAct™ prepares and protects skin against UV radiation (PRE) and actively soothes and restores a compromised skin barrier function (ACT)



Our naturally-derived esters are perfect for creating more eco-friendly products across the entire spectrum of applications from color cosmetics to skin, sun, lip and hair care. Combining light, dry sensorial properties with an excellent sustainability profile, they increase spreadability and reduce the heaviness of final formulations, enabling you to develop highly functional products with enhanced aesthetics.

## emollient esters

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Lipex SheaLight™</b>	<i>Shea Butter Ethyl Esters</i>	Unique, eco-designed liquid shea ester for a light, silky soft feel in skin, sun and hair care products. Suitable for cold processing.	1–20* 5–70**	5–20* 20–80**	1–2*** 3–5**** 1–50*****		
<b>Lipex Shea W™</b>	<i>Shea Butter Cetyl Esters</i>	Solid shea butter wax ester. Dry and velvety skin feel. Optimized for color cosmetics and anhydrous skin care formulations.	2–5		2–5		2–5
<b>Lipex Shea WM™</b>	<i>Shea Butter Oleyl Esters</i>	Liquid shea butter wax ester. Low spreading, it improves the sensory profile of anhydrous and emulsion formulations, delivering lower occlusivity and reduced tackiness. Suitable for general skin care and color cosmetics.	1–15			1–3	1–15

\*emulsions \*\*anhydrous products \*\*\*shampoos \*\*\*\*conditioners \*\*\*\*\*hair oils

Oleogels are natural oils that are thickened with particles or polymers, typically less than 10% solids at room temperatures. Though made of a mostly liquid fraction, they are semi-solid in character and are very useful for providing good film-forming and barrier protection properties together with medium spreadability on the skin.

## texturizing oleogels

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Akogel™</b>	<i>Hydrogenated Vegetable Oil</i>	Moisturizing and highly oxidative stable oleogel offering similar properties to petrolatum. Suitable for all cosmetic applications.	2–5				2–5
<b>Akosoft 36™</b>	<i>Hydrogenated Coco-glycerides</i>	Eco-friendly, moisturizing oleogel for skin and hair care, including fragrance-free formulations. Suitable as an alternative to light petrolatum gels.	1–20		1–4	1–10	
<b>Lipex L'sens™</b>	<i>Soybean Glycerides (and) Butyrospermum Parkii Butter Unsaponifiables</i>	Highly polar, semi-solid, shea-based oleogel for improving moisturizing, conditioning and light-reflecting benefits in skin, hair and lip care formulations.	1–3* 1–6**		0.5–5	1–10	

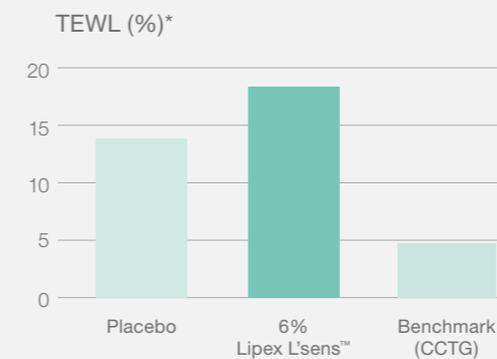
\*lotions and creams \*\*body butters



Derived from renewable sources using energy-saving catalysts and processes, Lipex SheaLight™ is an environmentally-friendly, multifunctional shea butter ester offering excellent spreadability and a very light, silky soft skin feel.

Recognized with a Sustainable Beauty Award for Best Ingredient when launched in 2014, it has become a firm favorite among formulators developing more eco-conscious products for skin, sun and hair care.

## award-winning eco-design



\* TEWL reduction versus untreated skin 4 hours after application.

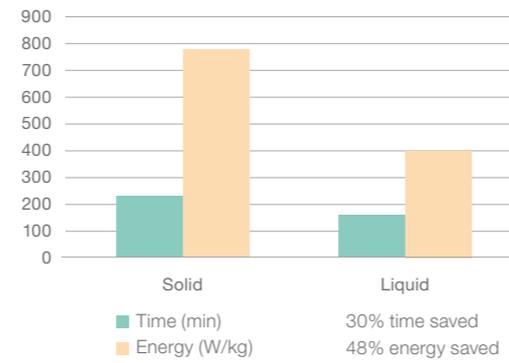
## Lipex L'sens™

improves skin barrier properties and significantly reduces transepidermal water loss

In vivo moisturization study shows that the optimum concentration of Lipex L'sens is around 6%.

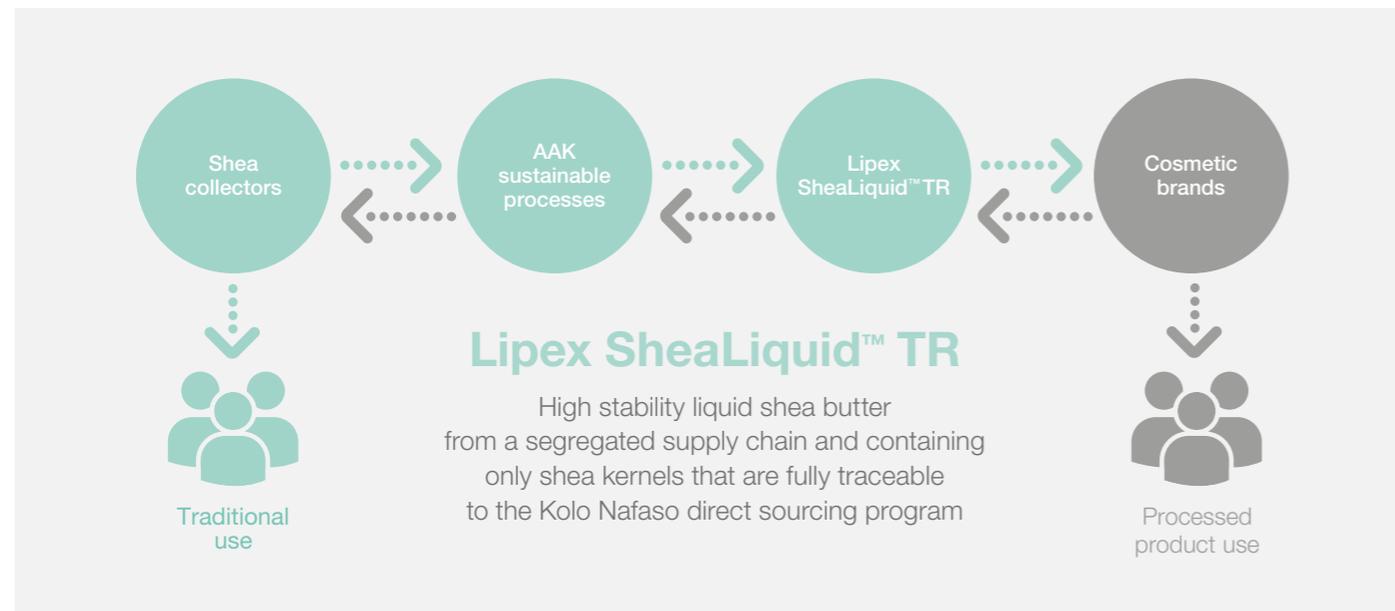
Our shea-based liquid emollients offer all the moisturizing benefits of traditional shea butter with improved skin feel and greater versatility. In addition, they have been shown to save both time and energy in the formulation process, making them ideal for creating more eco-friendly products.

Liquid shea saves time and energy



## versatile liquids

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Lipex 205™</b>	<i>Butyrospermum Parkii Butter (or) Butyrospermum Parkii Oil</i>	Versatile, low-spreading, liquid shea butter rich in unsaponifiables and linoleic acid, delivering high stability and moisturizing benefits to all cosmetic applications. Suitable for low energy processing.	1-5		0.5-4	2-10	
<b>Lipex SheaLiquid™ TR</b>	<i>Butyrospermum Parkii Butter (or) Butyrospermum Parkii Oil</i>	Fully traceable, low-spreading, liquid shea butter rich in unsaponifiables and linoleic acid, delivering high stability and moisturizing benefits to all cosmetic applications. Suitable for low energy processing.	1-5		0.5-4	2-10	



## performance oils

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Akosun™</b>	<i>Helianthus Annuus Hybrid Oil</i>	Refined sunflower seed oil with a high oleic (omega-9) content. Superior oxidative stability and shelf-life compared to traditional sunflower seed oils (OSI 20h, 110 °C). Suitable for use as a base emollient across a wide range of cosmetic applications.	1-15		1-4	1-10	
<b>High Oleic Brassica Oil™</b>	<i>Brassica Campestris Seed Oil</i>	Oxidation stable canola oil (OSI 16h, 110 °C). Rich in omega-9 and omega-6 fatty acids. Suitable for use as a base emollient across a wide range of cosmetic applications.	5-15				
<b>Lipex 109 S™</b>	<i>Gossypium Herbaceum Seed Oil</i>	Cottonseed oil stabilized with an optimized natural antioxidant system. Rich in omega-6 fatty acids. Suitable for general skin care.	2-3				
<b>Lipex 120™</b>	<i>Canola Oil</i>	Canola oil stabilized with an optimized natural antioxidant system. Rich in omega-3, omega-6 and omega-9 fatty acids. Suitable for general skin care.	2-3				
<b>Lipex 203™</b>	<i>Mangifera Indica Seed Oil</i>	Low-spreading, refined oil derived from mango fruit kernels. Delivers a soft, rich skin feel without the crystallization typically associated with exotic butters. Suitable for general skin care, including both anhydrous and liquid formulations.	2-3				
<b>Lipex Bassol C™</b>	<i>Olus Oil (or) Canola Oil</i>	Clear, high stability oil derived from renewable canola. Excellent alternative to low spreading mineral oils and synthetic emollients. Suitable for cold processing and use across a wide range of cosmetic applications.	1-15		1-4	1-10	
<b>Lipex Omega 3/6™</b>	<i>Olus Oil (and) Camelina Sativa Seed Oil</i>	Stable delivery system with an optimized combination of omega-3 and omega-6 fatty acids (1:3) for restoring skin health. Suitable for cold processing.	1-15				
<b>Lipex SheaClear™</b>	<i>Butyrospermum Parkii Oil</i>	Clear, low-spreading, liquid shea with moisturizing and conditioning benefits for creating translucent and transparent cosmetic oil formulations. Suitable for cold processing.	2-80		1-50		



## Lipex Bassol C™

delivers high oxidative and photo-oxidative stability and provides an excellent base for eco-friendly formulations

Sustainably sourced from renewable botanicals, our range of semi-solid and solid butters have been carefully optimized to offer varying melting profiles, crystallization properties and skin care benefits. With this lineup we make choosing the best, most natural fit for your formulation needs as easy as possible.

## beautiful butters: semi-solids

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Lipex Shea™</b>	<i>Butyrospermum Parkii Butter</i>	High stability semi-solid shea butter with a superior crystallization profile. Suitable for use across a wide range of cosmetic applications.	1-10		1-4	2-4	
<b>Lipex SheaSoft™</b>	<i>Butyrospermum Parkii Butter</i>	Advanced, creamy-textured shea butter with a high melting point, rapid crystallization and documented skin moisturizing benefits.	1-5* 3-30**			2-4	

\*lotions and creams \*\*body butters

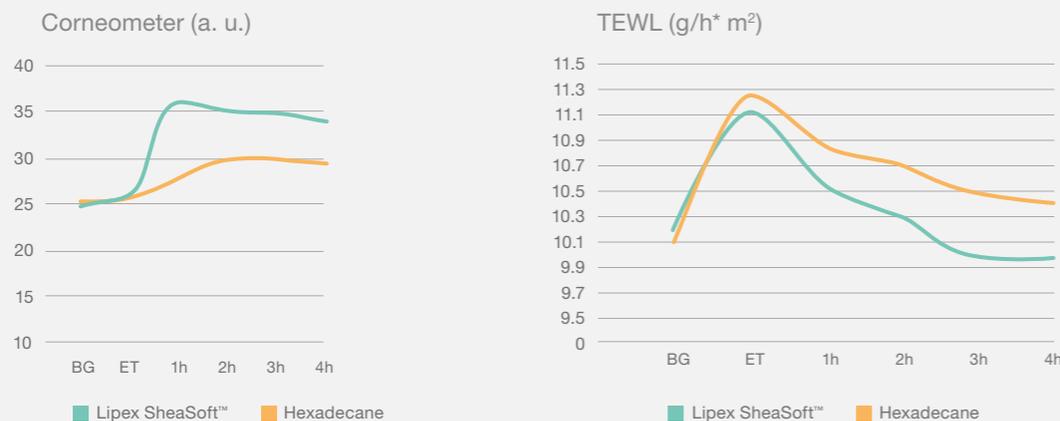
## beautiful butters: solids

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Lipex 102™</b>	<i>Butyrospermum Parkii Butter</i>	Refined and deodorized shea butter. Low color and odor. Suitable for use in low concentrations across a wide range of skin care formulations.	1-3				
<b>Lipex 106™</b>	<i>Shorea Stenoptera Seed Butter</i>	Refined and deodorized illipe butter. Low color and odor. Suitable for use in low concentrations across a wide range of skin care formulations.	1-2				
<b>Lipex CocoaSoft™</b>	<i>Theobroma Cacao Seed Butter</i>	Cosmetic grade cocoa butter with a high melting point, superior crystallization profile and unique soft, pliable texture. Suitable for skin care, lip care and dermo-cosmetics.	1-5* 5-15**				2-4
<b>Lipex IllipeSoft™</b>	<i>Shorea Stenoptera Seed Butter</i>	Cosmetic grade illipe butter with a high melting point, superior crystallization profile and unique soft, pliable texture. Suitable for skin care, lip care and dermo-cosmetics.	1-5* 5-15**				2-4
<b>Lipex SMP™</b>	<i>Hydrogenated Vegetable Oil</i>	Highly versatile, oxidative-stable, solid emollient with a sharp melting profile for achieving unique texture transformations. Excellent base for creating aerated products and efficient texturizer for cosmetic pencils, sticks and crayons.	1-20				20-30

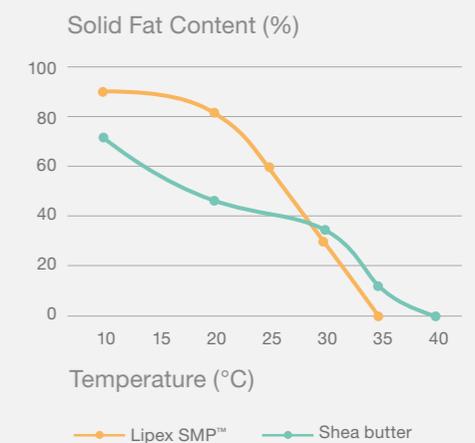
\*lotions and creams \*\*body butters

## Lipex SheaSoft™

has excellent moisturizing and skin barrier-strengthening properties



**Unleash your imagination** to fashion new formulations offering unique texture transformations. Solid at room temperature, Lipex SMP transforms rapidly to a low viscosity liquid at body temperature with the potential to provide a cooling sensation when melting. So go wild with everything from precision lip pencils that glide on like a balm to aerated soufflés that melt onto the skin at first touch.



## Get creative with Lipex SMP™

Our structuring agents offer good crystallization behavior and a choice of melting profiles to enable you to achieve the desired texture and consistency for your skin care and color cosmetic applications. Based on vegetable fats, these triglyceride ingredients are designed to show good compatibility with other ingredients when structuring both emulsion and anhydrous formulations and are particularly suitable for cosmetic sticks and pencils.

## structuring agents

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Akofine P™</b>	<i>Hydrogenated Vegetable Oil</i>	Structurizing vegetable triglyceride. High melting point (mp 59 – 61 °C). Stabilizes structure and increases temperature resistance in anhydrous formulations. Skin care and color cosmetic sticks.	1–4				1–4
<b>Akofine R™</b>	<i>Hydrogenated Vegetable Oil</i>	Structurizing vegetable triglyceride. High melting point (mp 58 – 60 °C) and good thermal stability. Stabilizes oil based dispersions and increases texture in anhydrous and emulsion formulations. Skin care and color cosmetics	1–5				1–5
<b>Lipex BC™</b>	<i>Hydrogenated Vegetable Oil</i>	Triglyceride base for cosmetic pencil and stick formulations. Designed to control bloom and provide structure. Creates firm, smooth and uniform textures that melt at body temperature and deliver a soft, creamy payoff. Also suitable for skin care.	5–10*			2–10	2–15** 10–50***

\*body butters \*\*lipsticks \*\*\*pencils

The composition of the emollient and emulsifier you choose will always influence the viscosity, stability and skin feel of your cosmetic formulation. Our Akoline range of vegetable derived emulsifiers comprises high quality ingredients renowned for their mildness. Well suited for natural skin care, they provide beautifully soft and elegant formulations.

## emulsifiers

Product	INCI (EU)	Description	TYPICAL USE CONCENTRATIONS (%)				
			skin care	sun care	hair care	lip care	color cosmetics
<b>Akoline GC™</b>	<i>Hydrogenated Vegetable Glycerides Citrate</i>	Polar anionic/non-ionic o/w emulsifier. (HLB 11). Releases citric acid giving improved skin firmness and smoothness. Suitable for general skin care.	1–5		1–4		
<b>Akoline LC™</b>	<i>Glyceryl Stearate Citrate</i>	Anionic emulsifier for o/w creams and lotions. (HLB 12). Can be used in cold processing. Suitable for general skin care.	1–3				
<b>Akoline MCM™</b>	<i>Caprylic/Capric Glycerides</i>	Medium chain mono-/diglyceride with high solubilization capacity. Co-emulsifier for o/w emulsions. Suitable for microemulsion formulations. (HLB 8–9). Skin care and color cosmetics.	1–3				1–3
<b>Akoline PG7™</b>	<i>Polyglyceryl-3 Stearate</i>	Non-ionic o/w emulsifier giving shiny emulsions. Stabilizes liquid crystals. (HLB 7). Suitable for general skin care and sun care.	2–5	2–5			
<b>Akoline PGPR™</b>	<i>Polyglyceryl-3 Polyricinoleate</i>	An efficient non-ionic w/o emulsifier and dispersion stabilizer. (HLB 3–4). Suitable for general skin care and color cosmetics.	2–5				2–5
<b>Akoline SL™</b>	<i>Sodium Stearoyl Lactylate</i>	Highly polar anionic o/w emulsifier. (HLB 17). Stabilizes liquid crystals. Releases lactic acid giving improved skin firmness and smoothness. Suitable for general skin care.	0.2–1				

# AAK ACADEMY™

– the knowledge centre for lipid technology

- Skin health
  - Lipid chemistry
  - Sustainable sourcing and processing
  - Optimizing functionality and skin feel
  - Crystallization and rheology
- and so much more...

At AAK, we apply our experience and expertise to optimize the functionality of renewable, vegetable derived lipids. The AAK Academy is all about sharing our insights and know-how to make you a master in technical application, because the more you know about lipid technology, the easier it is to find the best solution for your formulation.

As a customer of AAK Personal Care you have unique access to AAK's team of lipid experts through the AAK Academy. Attending our

courses enables product developers and formulators to learn more about the specialized technology and paves the way for open and constructive dialogue around future development opportunities.



For full details, please contact  
AAK Personal Care

## approvals & certifications

There are a number of public and private standards governing natural cosmetics and we strive to provide ingredients that not only fulfill demands for functionality, but also provide compliance for approval by the various certifying bodies.

Use the table on the right as a guide when selecting ingredients that are approved and/or certified according to specific standards. Please note that all our AAK Personal Care ingredients based on palm oil are sustainably sourced and certified. For official certificates, letters of approval and status updates, please contact AAK Personal Care.



Product

COSMETICS

COSMOS APPROVED

2-0001-04-100-00

2-0001-04-100-00

Traceable

Life Cycle Analysis

### emollients

Akogel™	•	•	•	•
Akosoft 36™	•			•
Akosun™				•
High Oleic Brassica Oil™				•
Lipex 102™				•
Lipex 106™				•
Lipex 109 S™				•
Lipex 120™				•
Lipex 205™				•
Lipex Bassol C™	•	•		•
Lipex CocoaSoft™	•	•		•
Lipex IllipeSoft™	•	•		•
Lipex L'sens™	•	•		•
Lipex Omega 3/6™	•	•		•
Lipex PreAct™	•	•		•
Lipex Shea™	•	•		•
Lipex SheaClear™				•
Lipex SheaLight™	•	•		•
Lipex SheaLiquid™ TR				•
Lipex SheaSoft™	•	•		•
Lipex SheaTris™				•
Lipex Shea W™	•			•
Lipex Shea WM™	•			•
Lipex SMP™		•	•	•

### structuring agents

Akofine R™				•
Akofine P™	•		•	•
Lipex BC™	•		•	•

### emulsifiers

Akoline GC™	•		•	•
Akoline LC™	•		•	•
Akoline MCM™	•		•	•
Akoline PG7™	•		•	•
Akoline PGPR™	•	•		•
Akoline SL™	•		•	•

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