



AAK

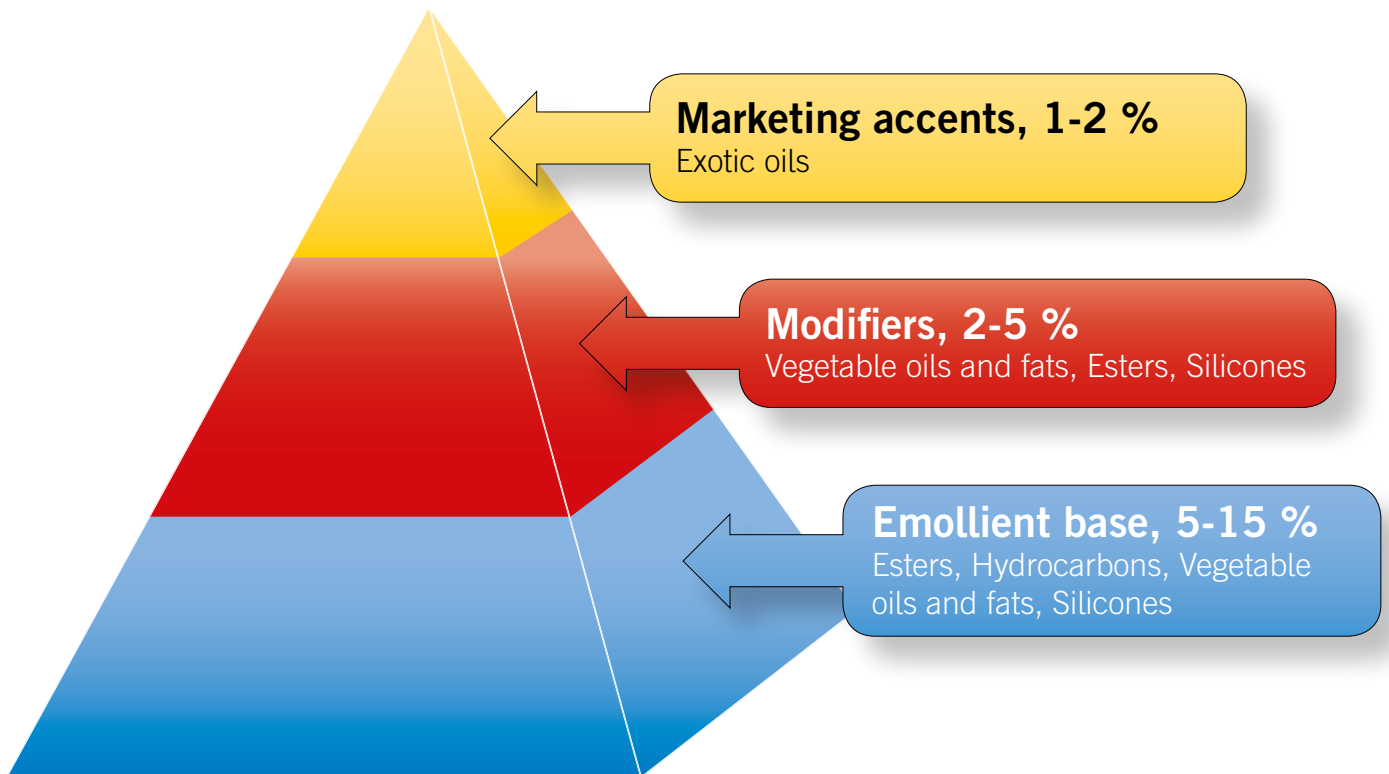
Product
Catalogue
2011

NATURAL
VEGETABLE
FUNCTIONAL

Lipex® – Beauty and Personal Care Lipid Ingredients

Lipex® – *Performance for Care*

Lipex® Emollient Selector



Use our Emollient Selector to optimise your emollient blend:



Marketing accents: Oils added at low concentration for differentiating formulations and for developing line extensions. Used at 1-2 %, mainly for labelling purposes.



Sensory modifiers: Use these ingredients to tailor the skin feel and performance of the base emollient to suite different consumers targets. Normally used at 2-5 % of the formulation.



Emollient bases: Oils with high stability and good cost effectiveness to serve as a base in many formulations. Normally comprising 5-15 % of the formulation.

Natural ingredients with desired functionality

All AAK beauty and personal care ingredients are based on vegetable lipids, a good starting point for safe and sustainable formulations. As we also are the world leader in shea butter, we use this unique raw material as a base for many of our ingredients which are marketed under the Lipex® brand. The benefits of shea in beauty and personal care products are well known and make it a popular raw material in many applications. To ensure top quality ingredients, AAK takes full control of the whole chain from product development to sourcing, manufacturing and quality control.

AAK product groups

- ◆ Emollients
- ◆ Bioactives
- ◆ Surfactants
- ◆ Structuring agents
- ◆ Emulsifiers

Emollients:

Shea Family

Shea butter is a well known emollient in skin care. AAK has developed functionally improved shea butters over the years to extend the opportunities in formulations, offering solutions to tailored skin feel and product stability. All AAK shea butters are refined and deodorised to make ingredients low in colour and odour, free of contaminants.

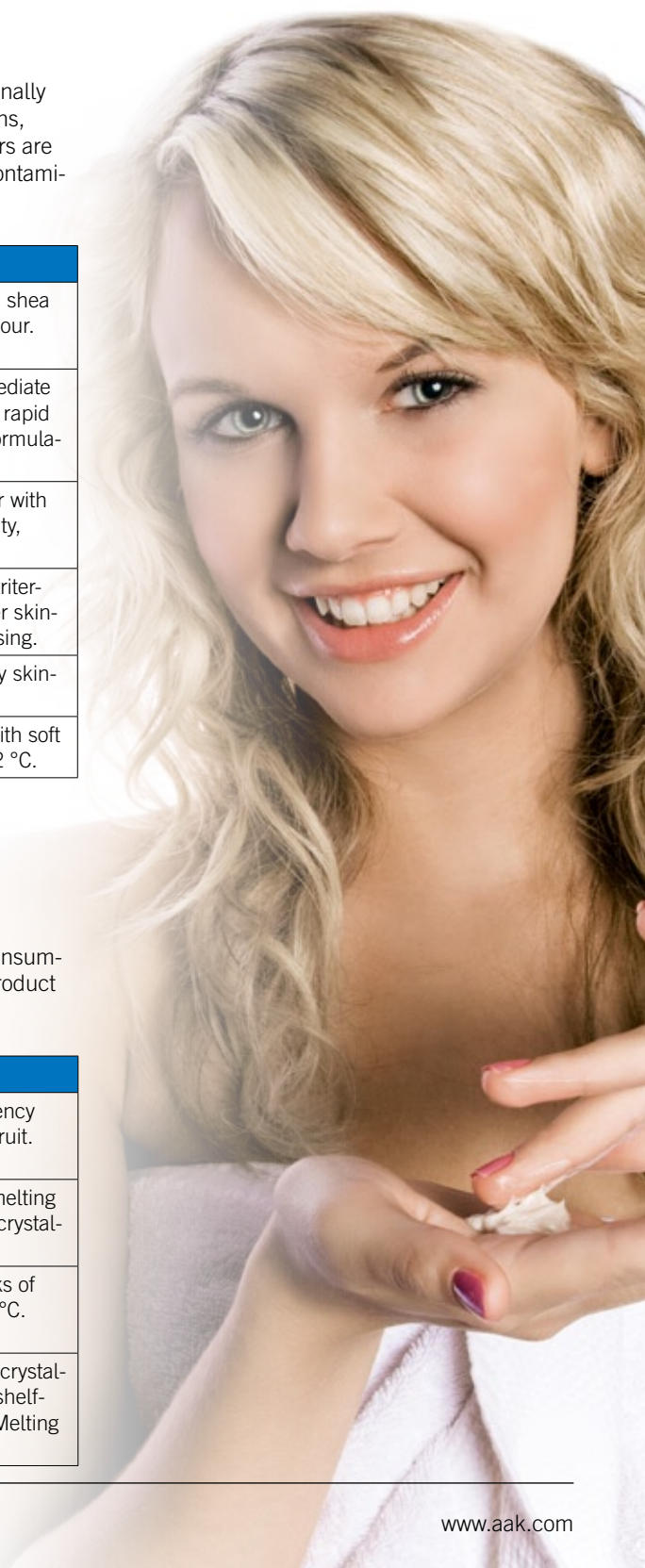
Product	INCI name	Description
Lipex® 102 ●	Butyrospermum Parkii Butter	Refined and deodorised solid shea butter with low colour and odour. Melting point 32-34 °C.
Lipex® Shea ● ■	Butyrospermum Parkii Butter	Solid shea butter with intermediate melting point (32-34 °C) and rapid crystallisation for improved formulation stability.
Lipex® Sheasoft ● ■	Butyrospermum Parkii Butter	Soft, high-melting shea butter with improved moisturising capacity, melting point 50-52 °C.
Lipex® 205 ●	Butyrospermum Parkii Butter (or) Butyrospermum Parkii Oil	Liquid shea butter with high triterpene ester content and lighter skin-feel. Suitable for cold processing.
Lipex® Shea W ●	Shea Butter Cetyl Esters	Solid shea butter wax with dry skin-feel, melting point 43-47 °C.
Lipex® Shea WM ●	Shea Butter Oleyl Esters	Semi-solid shea butter wax with soft skin-feel, melting point 20-22 °C.

Emollients:

Exotic Oils and Butters

Exotic oils and butters can make your formulation unique in the eyes of the consumer. Mainly originating in tropical countries they bring an exotic touch to your product line and offer many opportunities for line extensions.

Product	INCI name	Description
Lipex® 203 (Mango Oil) ▲	Mangifera Indica Seed Oil	A golden oil with high emolliency from the seed of the Mango fruit.
Lipex® Cocoasoft ▲ ●	Theobroma Cacao Seed Butter	Soft Cocoa Butter with high melting point (47-49 °C) and simple crystallisation for improved stability.
Lipex® 106 (Illipe butter) ▲	Shorea Stenoptera Seed Butter	Vegetable butter of the Dayaks of Borneo. Melting point 34-36 °C.
Lipex® Illipesoft ▲ ●	Shorea Stenoptera Seed Butter	Borneo butter with improved crystallisation properties for longer shelf-life and better heat stability. Melting point 48-52 °C.



Emollients:

High Stability Oils

Oils with improved oxidative stability for applications where long shelf life is expected.

Product	INCI name	Description
Akosun ■	Helianthus Annuus Hybrid Oil	Sunflower oil with high oxidative stability, rich in oleic acid. OSI 20 h (@110 °C).
Lipex® Bassol C ■	Olus Oil (or) Canola Oil	General purpose vegetable oil based emollient with high stability and low cloud point. OSI 40 h (@110 °C).
Akomed R ■	Caprylic/Capric Triglyceride	Synthetic triglyceride based on saturated triglycerides. OSI >100h (@110 °C).
High Oleic Brassica Oil ■	Brassica Campestris Seed Oil	Rapeseed/Canola oil with high oxidative stability, rich in oleic acid. OSI 16h (110 °C)

Emollients:

Vegetable Gels and Semi-solid Lipids

These ingredients are ideal when a firmer consistency is desired and when the emolliency needs to be improved. They are preferentially used as bases for balms and butters, especially for anhydrous and water-in-oil type of formulations. In oil-in-water emulsions they improve product consistency and skin-feel.

Product	INCI name	Description
Lipex® Genova ■	Elaeis Guineensis Oil	Soft, palm-based vegetable gel with high melting point (47-49 °C) and high emolliency.
Akogel ■	Hydrogenated Vegetable Oil	Semi-solid vegetable gel with petrolatum-like texture and softness. High oxidative stability. OSI >100 h (@110 °C)
Akogel Plus ■	Hydrogenated Vegetable Oil	Semi-solid vegetable gel with paste-like consistency and high oxidative stability. OSI>100h (@110 °C)
Akosoft 36 ■	Hydrogenated Coco-glycerides	Saturated semi-solid emollient and texturiser. Melting point 33-35 °C.
Lipex® L'sens ●	Soybean Glycerides (and) Butyrospermum Parkii Butter Unsaponifiables	Polar vegetable gel with instant moisturisation and skin softening effect.

▲ Marketing accents ● Sensory modifiers ■ Emollient bases

Emollients:

Omega Oils

Lipex® Omega oils are developed for long shelf life using AAK's long experience in vegetable oil manufacturing. Omega fatty acids, especially Omega-6, are essential for skin health as building blocks in moisturising ceramides and for controlling the inflammatory reactions in the skin.

Product	INCI name	Description
Lipex® Omega 3/6 ▲	Olus Oil (and) Camelina Sativa Seed Oil	An optimised blend of Omega-6 and Omega-3 in a stable vegetable oil carrier.
Lipex® Omega EPO ▲	Olus Oil (and) Oenothera Biennis Oil	Evening Primrose Oil with Omega-6 and gamma-linolenic acid in a stable vegetable oil carrier.
Lipex® Omega Passiflora ▲	Olus Oil (and) Passiflora Incarnata Seed Oil	Brazilian passion flower seed oil in a stable vegetable oil carrier for optimal stability.
Lipex® 109S (Cottonseed Oil) ▲	Gossypium Herbaceum Seed Oil	Cottonseed oil stabilised by an optimised natural antioxidant system. Rich in Omega-6 fatty acids for treatment of dry skin conditions.
Lipex® 120 (Canola Oil) ▲ ■	Canola Oil	Canola oil stabilised by an optimised natural antioxidant system. Rich in Omega-3, Omega-6 and Omega-9 fatty acids.

Emollients:

Certified Organic and Sustainable Oils

These Lipex® ingredients combine good formulation and skin care properties with environmentally sound production techniques. High oxidative stability and low levels of contaminants ensure long shelf lives for finished formulations.

Product	INCI name	Description
Lipex® SB Organic ▲	Butyrospermum Parkii Butter	Organic Shea Butter from Burkina Faso. Melting point 32-34 °C. OSI 20h (@110 °C).
Akofrite RSPO/SG ■	Elaeis Guineensis Oil	Certified Sustainable Palm Oil (RSPO). Melting point 30 °C. OSI 44 h (@110 °C).
Akogreen O ▲	Olea Europaea Fruit Oil	Certified Organic refined and deodorised olive oil. OSI 40 h (@110 °C).

Bioactives

Lipex® bioactives are developed to utilise the bioactivity of the minor lipids found in vegetable oils. Anti-oxidative natural tocopherols (Vitamin E), anti-inflammatory phytosterols and their esters, and triterpene esters with anti-aging properties can all be concentrated to high levels using patented AAK fractionation techniques.

Product	INCI name	Description
Lipex® Collect	Phytosteryl Canola Glycerides	Canola based phytosterol preparation with anti-inflammatory and lipid barrier enhancing effects. Phytosterol content 30 %.
Lipex® PreAct	Canola Oil	Canola Oil enriched in anti-oxidative natural tocopherols and anti-inflammatory phytosterols.
Lipex® Shea Tris	Butyrospermum Parkii Butter Extract	Shea butter triterpene ester concentrate that stimulates epidermal collagen production and decreases collagen breakdown. Anti-inflammatory and skin healing action. Triterpene ester content 50-65 %.

Surfactants

The Lipex® surfactants offer unique opportunities to improve rinse-off formulations in terms of mildness, moisturisation and product consistency.

Product	INCI name	Description
Lipex® Shea Betaine	Shea Butteramidopropyl Betaine	Shea butter based secondary surfactant for mild rinse-off formulations.
Lipex® 102 E-75	PEG-75 Shea Butter Glycerides	Water-soluble shea butter for improved foaming and decreased irritancy.
Lipex® 203 E-70	PEG-70 Mango Glycerides	Water-soluble mango oil reducing irritation and improving moisturisation in rinse-off formulations.

Structuring Agents

Solid, medium-to-high melting vegetable fats for stabilising dispersions of different types. These ingredients are normally used to formulate stable pencils, lip balms and sticks but they are also applicable for stabilising emulsions for cosmetics and personal care.

Product	INCI name	Description
Akofine R	Hydrogenated Vegetable Oil	Structurising vegetable fat (melting point 58-60 °C). Stabilises oil based dispersions at low concentration.
Akofine P	Hydrogenated Vegetable Oil	Structurising vegetable fat (melting point 59-61 °C). Increases melting point and high-temperature stability.
Lipex® BC	Hydrogenated Vegetable Oil	Base for pencil and stick formulations with sharp melting profile at body temperature.

Emulsifiers

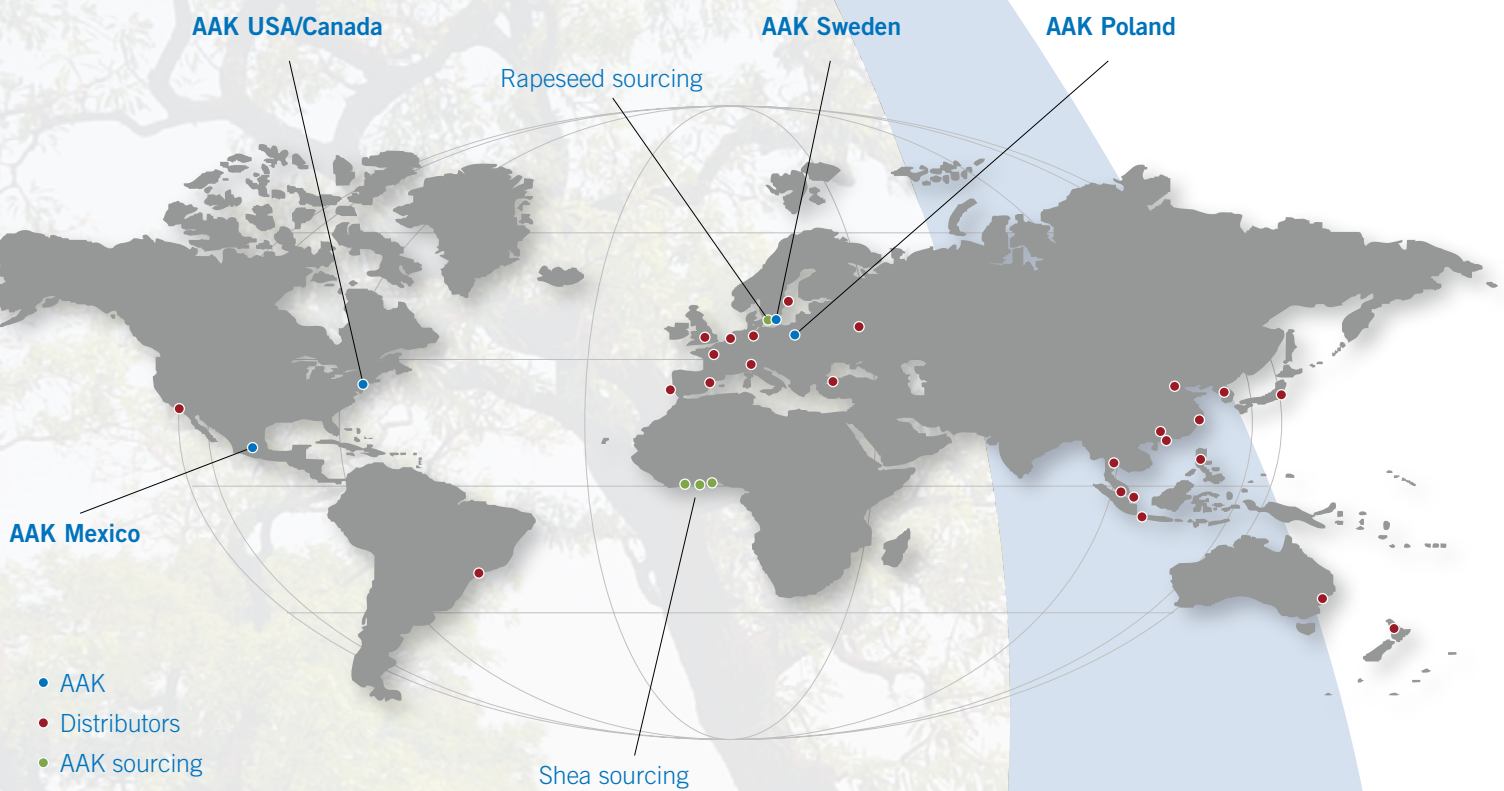
Akoline emulsifiers are safe, efficient lipid derived ingredients offering the formula possibilities to make natural cosmetics with improved skin functionality and good skin-feel. They can be used in combination with each other or together with all types of standard emulsifiers for cosmetics.

Product	INCI name	Description
Akoline MCM	Caprylic/Capric Glycerides	Medium chain mono/diglyceride with high solubilisation capacity. Suitable also for microemulsion formulations.
Akoline GC	Hydrogenated Vegetable Glycerides Citrate	Polar anionic/non-ionic oil-in-water emulsifier. Releases citric acid resulting in improved skin firmness and smoothness.
Akoline SL	Sodium Stearoyl Lactylate	Highly polar anionic oil-in-water emulsifier. Stabilises liquid crystals. Releases lactic acid with skin firming and smoothing properties.
Akoline LC	Glyceryl Stearate Citrate	Anionic emulsifier for oil-in-water creams and lotions. Can be adapted to cold processing.
Akoline PG7	Polyglyceryl-3 Stearate	Non-ionic oil-in-water emulsifier giving shiny emulsions. Stabilises liquid crystals. HLB=7.
Akoline PGPR	Polyglyceryl-3 Polyricinoleate	An efficient non-ionic water-in-oil emulsifier and dispersion stabiliser. HLB=3.
Akoline MD50	Glyceryl Stearate	Basic water-in-oil emulsifier and stabiliser for creams and lotions. HLB=3.



Lipex® emollients for beauty and personal care applications are renewable, safe and biodegradable. They are produced from responsibly sourced raw materials, which do not infringe on biodiversity or contribute to habitat destruction. Our processing is energy and resource efficient, minimizing the use of fossil fuels and process emissions. Using vegetable oil emollients gives you sustainable formulations – today and in the future.

Lipex® around the world



AarhusKarlshamn Sweden AB
Business Sector Lipids for Care
SE-374 82 Karlshamn, Sweden

Phone+46 454 820 00
Fax +46 454 828 85
lipid@aak.com

Phone +1 973 741 5049 (USA)
Fax +1 973 344 6638 (USA)
lfc.us@aak.com (USA)

www.aak.com