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www.surfactantseurope.akzonobel.com

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Mild Surfactants

For formulations of advanced cleansing products Akzo Nobel offer a range of outstanding mild surfactants that help to reduce the level of irritation to skin and eyes. In addition they provide a stable and creamy foam, and leave hair and skin with a soft feel.

Sodium Cocoyl Isethionate

SCI provide a unique combination of skin cleansing, extra mildness, low transepidermal water loss, no dry out of the skin and skin conditioning. Together with its creamy and dense foam it is the surfactant of choice for mild cleansing bars, baby products, toothpastes, mild shampoos and body washes.

Sodium Cocoyl Isethionates	INCI-name	Physical appearance	Active matter (%)	Application
Elfan AT 84	Sodium Cocoyl Isethionate	powder	80	For syndet- and combibars. This micronized powder gives extremely good smoothness without grittyness.
Elfan AT 84 G	Sodium Cocoyl Isethionate	granular	80	Non-dusty granules to ensure easy handling for liquid cleansing products.

Amphoteric Surfactants

Due to their polyamphoteric nature, these surfactants significantly increase the mildness of Personal Care formulations and therefore they are dedicated to products for sensitive skin and baby care. Additionally they provide a unique combination of foam boosting, sequestering and bacteriostatic properties. Their substantive nature imparts a desirable conditioning effect to skin and hair.

Polypropylamine Amphoterics	INCI-name	Physical appearance	Dry matter (%)	Application
Ampholak 7CX/C	Sodium Carboxymethyl Coco Polypropylamine	liquid	40	Based on coconutoil with cleaning and foam boosting properties.
Ampholak XO7/C	Sodium Carboxymethyl Oleyl Polypropylamine	liquid	40	Based on rapeseed oil with a superior conditioning effect to hair and skin without leaving a rough skin.



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Mild surfactants cont.

Various types

Betaines	INCI-name	Physical appearance	Dry matter (%)	Application
Amphoteen 24	Lauryl Betaine	liquid	30	Excellent foam booster, superior bacteriostatic efficacy against gram positive bacteria, funghi and yeast.

Amine Oxides	INCI-name	Physical appearance	Active matter (%)	Application
Aromox C/12-W	Dihydroxyethyl Cocamine Oxide	liquid	30	Foam boosting, stabilisation and viscosity enhancer in liquid cleansing products and aerosol mousses.
Aromox MCD-W	Cocoamine Oxide	liquid	30	

Ethoxylated mono-ethanol amides	INCI-name	Physical appearance	Active matter (%)	Application
Amadol CMA-2 (80%)	PEG-3 Cocamide	liquid	80	Excellent foam booster and cleaning surfactant.
Ethomid HP/60	PEG-50 Hydrogenated Palm	solid	100	Good emulsifier and dispersing agent.

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Thickeners and Rheology Modifiers

Akzo Nobel offers associative thickeners for advanced rheology modification of liquid systems. Our nonionic blockcopolymers are hydrolytically stable over a wide pH range.

Nonionic blockcopolymers	INCI-name	Physical appearance	Active matter (%)	Application
Elfacos GT 282 S	Ceteareth-60 Myristyl Glycol	pellets	100	A newtonian thickener over a wide shear range. Used in shampoos, shower and bath products. Good compatability with salt.
Elfacos T 212	PPG-14 Palmeth 60 Hexyl Dicarbamate	liquid	100	Especially designed for mild surfactants. Builds low shear viscosity with a newtonian to pseudo-plastic flow. Contributes to hair conditioning.

Ethoxylated Amines

Ethoxylated aliphatic amines are cationic in character but becomes increasingly nonionic and water soluble with an increasing degree of ethoxylation.

Ethoxylated Amines	INCI-name	Physical appearance	Active matter (%)	Application
Ethomeen C/12	PEG-2 Cocoamine	liquid	100	Based on coco fatty acids. Mainly used as emulsifiers and neutralizing agent.
Ethomeen C/25	PEG-15 Cocoamine	liquid	100	
Ethomeen OV/12	PEG-2 Rapeseed Amine	liquid	100	A vegetable quality based on rapeseed. Used as emulsifier, dye levelling agent and neutralizing agent in hair care products.
Ethoduomeen T/13	PEG-3 Tallow Aminopropyl Amine	paste	100	A diamine based on tallow fatty acids. Extremely good neutralizing agent and emulsifier.
Ethoduomeen OV/13	PEG-3 Rapeseed Aminopropyl Amine	liquid	100	A vegetable diamine based on rapeseed. Extremely good neutralizing agent and emulsifier.

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Emulsifiers and Emulsion Stabilizers

Our truly unique range of emulsifiers and stabilizers have excellent dermatological properties, making them ideally suited for manufacturing of all kinds of creams and lotions. Due to their high molecular weight they do not penetrate through the skin but stay on respectively in the stratum corneum (upper layer of the skin) providing skin moisturizing and barrier function.

They are all nonionic and therefore compatible with electrolytes and ionic surfactants. Further, all Elfacos type emulsifiers and stabilizers are completely stable over a wide range of pH values and temperatures, as they do not contain hydrolyzable bonds.

Emulsifiers

Emulsifiers	INCI-name	Physical appearance	Active matter (%)	Application
Elfacos E 200	Methoxy PEG-22/Dodecyl Glycol Copolymer	paste	100	Highly efficient emulsifier for W/O emulsions. HLB=6.2

Ethoxylated mono ethanol amides	INCI-name	Physical appearance	Active matter (%)	Application
Amadol CMA-2 (80%)	PEG-3 Cocamide	liquid	80	An outstanding emulsifier for e.g. vegetable oils.

Emulsion Stabilizers

Due to the unique chemical structure - two lipophilic and one hydrophilic part - the Elfacos ST-type polymers effectively improve the stability of W/O emulsions.

In lipstick and lip gloss formulations they provide

- improvement of self-gloss of sticks
- excellent mould release
- improved colour give-off
- dispersion of pigments

Emulsion Stabilizers	INCI-name	Physical appearance	Active matter (%)	Application
Elfacos ST 37	PEG-22/Dodecyl Glycol Copolymer	liquid	100	Stabilizes emulsions of vegetable-, mineral- and silicone oil. Particularly useful for low viscous lotions (e.g sun protection products)
Elfacos ST 9	PEG-45/Dodecyl Glycol Copolymer	paste	100	



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Conditioning Agents

Akzo Nobel offers a line of mono- and dialkyl quats, as well as Polyquaternium 10 and Esterquats for the Personal Care industry. These versatile products impart detangling, conditioning and static control properties to hair care formulations including creme rinses, mousses, sprays, shampoos and conditioners.

Monoalkyl quaternaries	INCI-name	Physical appearance	Active matter (%)	Application
Arquad 16-25 LO	Cetrimonium Chloride	liquid	25	Light hair conditioners, provides a good wet and dry combability, good anstistatic effect. Easy handling due to liquid form.
Arquad 16-50	Cetrimonium Chloride (and) Isopropyl Alcohol	liquid	50	
Arquad SV-60 PG	Soytrimonium Chloride (and) Propylene Glycol	liquid	60	Enhanced conditioning effect for moderately and strongly damaged hair. Excellent hair dye levelling agent. Based on soya oil.
Arquad HTB-75	Stearalkonium Chloride	paste	75	Highly concentrated mono alkyldimethyl benzyl quat for superior antistatic properties and good conditioning for light and moderate hair.

Dialkyl dimethyl quaternaries	INCI-name	Physical appearance	Active matter (%)	Application
Arquad 2HT-75	Quaternium 18 (and) Isopropyl Alcohol	paste	75	Moderate hair conditioning additive with excellent rinsing properties.

Ester quaternaries	INCI-name	Physical appearance	Active matter (%)	Application
Armocare VGH-70	Dipalmitoylethyldimonium Chloride	pastilles	78	Vegetable based esterquat with excellent biodegradability and superior conditioning effect for strongly damaged hair, developd for strong conditioners and hair rinses. Easy handling with the pastille form, cold water dispersible.



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Consistency Regulators

Akzo Nobel consistency regulator for W/O systems, is a non bleached wax, which is used to adjust e.g. both low viscous lotions and high viscous night creams.

Synthetic Beeswax	INCI-name	Physical appearance	Dry matter (%)	Application
Elfacos C 26	Hydroxyoctacosanyl Hydroxystearate	pellets	100	Due to its waxy consistency it can be used for sticks, ointments and decorative cosmetics.