



PERSONAL CARE



GREENFORMANCE

## Commitment to sustainability

The concept of sustainability has been transforming the behavior and consumption habits worldwide. This change is present in our daily choices.

Bearing this in mind, Oxiteno invests in technology, develops products based on renewable raw materials, and promotes the wise use of natural resources.

To express this commitment, Oxiteno has created the **Greenformance** concept, which combines the use of renewable resources, care for the environment and health and wellness, while maintaining quality and performance in its product line to meet our customers' needs.

Through individual actions and collective consciousness, we can preserve the natural heritage for future generations and improve our quality of life.



Based on three pillars of sustainability, the **Greenformance** concept reflects in Oxiteno's current and future development of Personal Care products:



The use of raw materials from **renewable resources**, by substituting synthetic materials and petrochemical derivatives for material of vegetable origin;



**Environmental care** reflected in the concentrated and biodegradable products that can help reduce energy use, water consumption and packaging;



To promote **health and wellness** through formulations of high performance, minimal by-products and mildness.

## Milder formulations

Oxiteno uses raw materials from renewable resources in its Personal Care line, which components provide biodegradability, multifunctionality and efficiency to consumer

goods, such as shampoos, hair conditioners, bar and liquid soaps, body washes, hair dyes, creams & lotions, deodorants, perfumes, among others.



Classification of  
Oxiteno's Personal  
Care product line

**USE OF RENEWABLE RESOURCES**



Products with high carbon content derived from renewable raw materials and low carbon content of petrochemicals sources.

Products with equivalent proportions of carbon derived from renewable raw materials and carbon from petrochemicals sources.

Products with a predominance of carbon from petrochemicals sources.

Products from synthetic sources only.

**ENVIRONMENTAL CARE**



Products that are biodegradable, multifunctional and with high concentrations of actives, are appropriate for use in concentrated formulations and do not require heat for incorporation.

Products that are biodegradable, multifunctional and with high concentrations of actives, appropriate for applications in concentrated formulations.

Products that are biodegradable and with easy incorporation into the formulations.

No differentiation on product attributes.

**HEALTH AND WELLNESS**



Products that provides milder formulations , sulfate-free and dioxane-free.

Products that provides milder formulations and sulfate-free.

Products that provides milder formulations or dioxane-free or sulfate-free

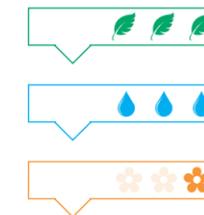
No differentiation on product attributes.

**ANIONIC SURFACTANTS**

**ALKOPON® Product Line – Fatty alcohol sulfates / Fatty alcohol ether sulfates**

The ALKOPON® products are readily biodegradable surfactants made with natural lauryl alcohol produced from palm kernel oil (PKO), a renewable resource. They offer excellent water solubility, high foam and detergent abilities and emulsifying and

thickening characteristics in the presence of electrolytes. These outstanding properties make ALKOPON® products the primary surfactants in shampoos, liquid soaps, bubble baths, body washes, toothpastes, among other personal care products.



**ALKOPON® 70 ECO**

INCI Name: *Sodium Laureth Sulfate*

ALKOPON® 70 ECO has 100% carbon from renewable vegetable resources, derived from lauryl alcohol from palm kernel oil and ethylene from sugarcane. Besides being a product of vegetable origin, it is biodegradable and without preservatives, and is therefore desirable in green and natural formulations.

ALKOPON® ECO products are excellent choices as primary surfactants in shampoos, liquid soap, bubble baths, shower gels, among others.

They are personal care naturally-derived ingredients, combining high performance, excellent benefit-cost ratio with concentrated, easy handling.

In addition, this product offers excellent cleansing, copious foam, excellent water solubility and good tolerance to water hardness. It is a concentrated, flowable paste product and does not need to be heated to be added to formulations, thus saving energy resources. It also enables transportation savings and storage efficiencies.

# MILD ANIONIC SURFACTANTS



## **ALKONIX® Product Line** - *Disodium Laureth Sulfosuccinate / Sodium Laureth Sulfate*

Composed of biodegradable anionic surfactants, ALKONIX® products enable the development of extremely mild formulations with abundant,

creamy foam and excellent sensorial properties. Ideal for children products and cosmetics as well as others that require mildness.



### **ALKONIX® SC**

INCI Name: *Sodium Laureth Sulfate (and) Disodium Laureth Sulfosuccinate*

Extremely mild product, derived from palm kernel oil, that enables shampoo and bubble bath formulations with low potential irritation to skin and eyes. It also offers good foaming properties.

ALKONIX® SC PLUS is a balanced pre-mix of high-performance anionic surfactants improving storage efficiency over storing individual components.

## **LACTIPOL® Product Line** - *Acyl Lactylates*

Acyl lactylates are anionic surfactants compatible with most raw materials used in shampoo and personal care cleansing products.

It is recommended in mild formulations, particularly for sensitive areas such as the face and intimate areas, and for children products



### **LACTIPOL® SLL 70**

INCI Name: *Sodium Lauroyl Lactylate*

LACTIPOL SLL 70 is made from fatty acids derived from coconut oil and thus is based on a chain distribution that excellent performance in terms of foam creation and stabilization.

It is offered as a concentrated liquid product, without preservatives and does not need to be heated to be added to formulations. These attributes provide flexibility and potential energy savings over more traditional ingredients.

## SPECIAL SURFACTANTS

### ALKOLAN® Product Line – Secondary Surfactants

This line is comprised of amphoteric and alkanolamide surfactants. They are biodegradable and have synergistic properties when used in combination with anionic surfactants in the ALKOPON® product line.

Use of these ingredients enable the development of extremely mild formulations, with rich, abundant and creamy foam, as well as excellent sensorial properties.



### ALKOLAN® CD 30

INCI Name: *Coco-Betaine*

ALKOLAN® CD 30 has a higher content of renewable, vegetable-based carbon compared to traditional types of betaines, such as Cocamidopropyl Betaine. Considered a multifunctional product, when used in association with ALKOPON® anionic

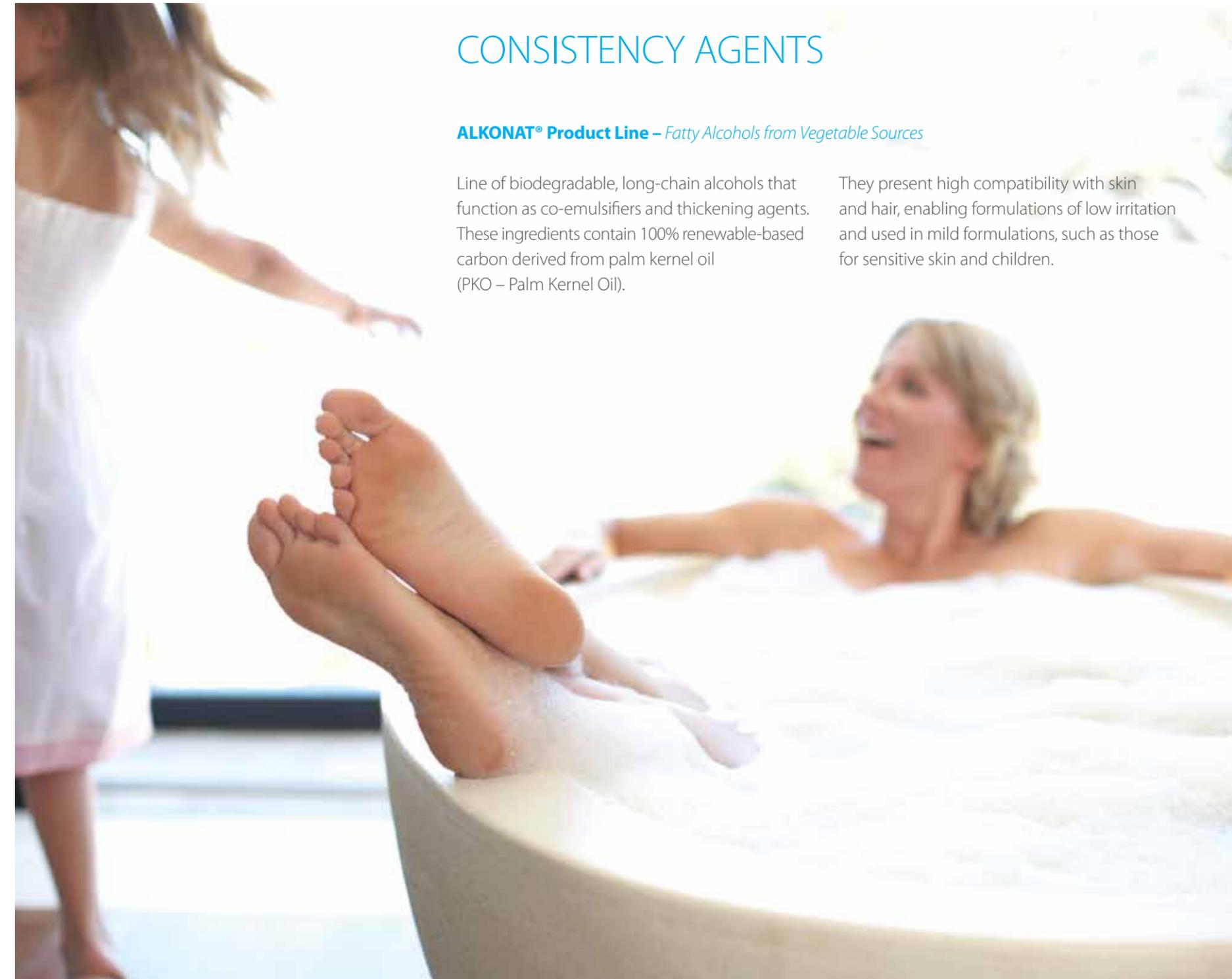
product line, results in increased foam volume and formulation viscosity, provides mild conditioning and easier combing. This product is compatible in low pH formulation and it can be used, for instance, in formulations that contain alpha-hydroxy acids (AHA).

## CONSISTENCY AGENTS

### ALKONAT® Product Line – Fatty Alcohols from Vegetable Sources

Line of biodegradable, long-chain alcohols that function as co-emulsifiers and thickening agents. These ingredients contain 100% renewable-based carbon derived from palm kernel oil (PKO – Palm Kernel Oil).

They present high compatibility with skin and hair, enabling formulations of low irritation and used in mild formulations, such as those for sensitive skin and children.



## EMULSIFIERS

### ALKEST® L, E, O Product Line – Sorbitan Esters

ALKEST® L, E, O This products line is free from dioxane, sulfates and preservatives. They present low toxicity and are considered low irritating. The ALKEST® L, E, O is comprised of 100% renewable carbon-based sorbitan esters derived from the reaction of sorbitol with fatty acids

from renewable vegetable resources. When used, ALKEST® L, E, O products help provide stable formulations, due to their excellent characteristics as water-in-oil (W/O) emulsifiers. In addition, they are used as co-emulsifiers in oil-in-water (O/W) emulsions.

### GLICEPOL® Product Line - Glycerol Esters

GLICEPOL® product line is comprised of 100% renewable carbon-based glycerol esters obtained from the reaction of glycerin with fatty oils or acids, both from renewable vegetable resources. GLICEPOL® products are excellent emulsifiers for

creams, lotions and deodorant bars, helping provide stable formulations. GLICEPOL® products contain no preservatives and are dioxane and sulfate-free. They are low irritating to skin and present low human and environmental toxicity.

## MULTIFUNCTIONAL INGREDIENT

### ALKONT® EL 3645

Mild Conditioning and Liquid Multifunctional Ingredient

INCI Name: *Sorbeth-450 Tristearate (and) Water (and) PEG-9 Cocoate (and) PEG-32 Distearate (and) PEG-175 Distearate*

ALKONT® EL 3645 is an efficient liquid and mild multifunctional ingredient for cosmetic formulations. This product was especially developed to be added via cold-mix, resulting in reduced energy consumption compared to more traditional ester thickeners. It is easily handled, does not require neutralization and can be added at the end of the production process. Besides the benefits in the production process, ALKONT® EL 3645 offers valuable attributes as an excellent

thickener for salt-free shampoo formulations. Transparent formulations can be obtained. It is ideal for children and personal care applications, due to its low irritation. In skin care, the product has an excellent performance as a consistency agent, promoting to the formulation special sensory and moisturizing effect to the skin. It is especially recommended for hair care products, providing improved combability and softness.





# HUMECTANTS

**GLICENAT®** - *Glycerin* and **CANASOL® Product Line** - *Glycerin Ethoxylate*

Biodegradable humectants compatible with anionic, nonionic, cationic and amphoteric surfactants and other ingredients, enabling the development of extremely mild formulations

for both adults and children. The GLICENAT® product contains 100% renewable carbon, derived from vegetable resources.

# SOLUBILIZER

**ALKEST® CSO 400**

INCI Name: *PEG - 40 Hydrogenated Castor Oil*

ALKEST® CSO 400 has excellent emulsifying and solubilizing properties, especially useful for fragrance solubilization in transparent shampoos and alcohol-free colognes targeted mainly for

children. ALKEST® CSO 400 is a concentrated product with high content of actives and contain no preservatives.

# PEARLIZING AGENT

**ALKONT® 5405 BP**

INCI Name: *Sodium Laureth Sulfate (and) Glycol Distearate (and) Cocamide DEA*

ALKONT® 5405 BP is a pearlizing agent that does not need to be heated to be added into cosmetic formulations, contributing to reduced energy consumption. This "liquid pearl" is compatible

with anionic and nonionic surfactants, alkanolamides, betaines and other amphoteric. It is biodegradable and has low toxicity.





Oxiteno is a member of the RSPO (Roundtable on Sustainable Palm Oil), a nonprofit organization that promotes the sustainable growth of palm and palm kernel oil production and which includes the entire production chain.



The company has also signed the Programa Atuação Responsável® (Responsible Care Program), an initiative that promotes the improvement of environmental, economic and social sustainability of its processes and products while contributing towards the permanent improvement of society's quality of life.

The Oxiteno Integrated Management System (SIGO) for quality, health, safety, environment and social responsibility adopts the requirements found in international norms ISO 9001, ISO TS 16949 and ISO 14001 as a reference. The company is certified in these as well as the ISE, SOX , CCPS and GRI institutions.





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COATINGS



DETERGENTS



AGROCHEMICALS