

Personal Care

ECOTAIN® - SUSTAINABLE EXCELLENCE AT EVERY STEP



Get natural
WITHOUT COMPROMISE

The concept of wellness is a growing consumer trend driving significant change, especially in the personal care industry. Consumers' interest in wellness is about making choices that contribute towards optimizing their health.



It is a process of awareness that goes beyond the personal to encompass environmental factors. Part of this trend is a growing eco-consciousness that takes account of the planet's limited resources. This is why today, for more and more people: natural is important and sustainable is a must.

Demand for more sustainable ingredients in personal care products is no longer the exception, but is fast becoming the rule. Consumers have a critical eye on what they apply on their skin, and customers have turned their attention towards finding effective, sustainable solutions that meet this consumer need.

Clariant works hand in hand with its customers in the personal care sector to provide them with smart and reliable ingredients to make their formulations more sustainable. EcoTain® products make use of sustainable raw materials derived from renewable resources to provide alternatives to synthetic ingredients that can be produced efficiently and economically, all while delivering the same high level of performance.

With the EcoTain® concept, Clariant is setting high standards for sustainable ingredients from initial design through production to application in the final product.

Natural, safe and effective for SKIN AND HAIR



One of the five codes that make up Clariant’s Secret Code of Beauty – EcoTain® stands for sustainability, safety and effectiveness of personal care ingredients. This means using smart processing approaches and finding ways to make ingredients work more efficiently through multi-functionality. Sourcing sustainable raw materials, using less energy to process them and ensuring that processing is safe for everyone who comes into contact with our ingredients are all part of the EcoTain® concept.

The EcoTain® LIFE CYCLE

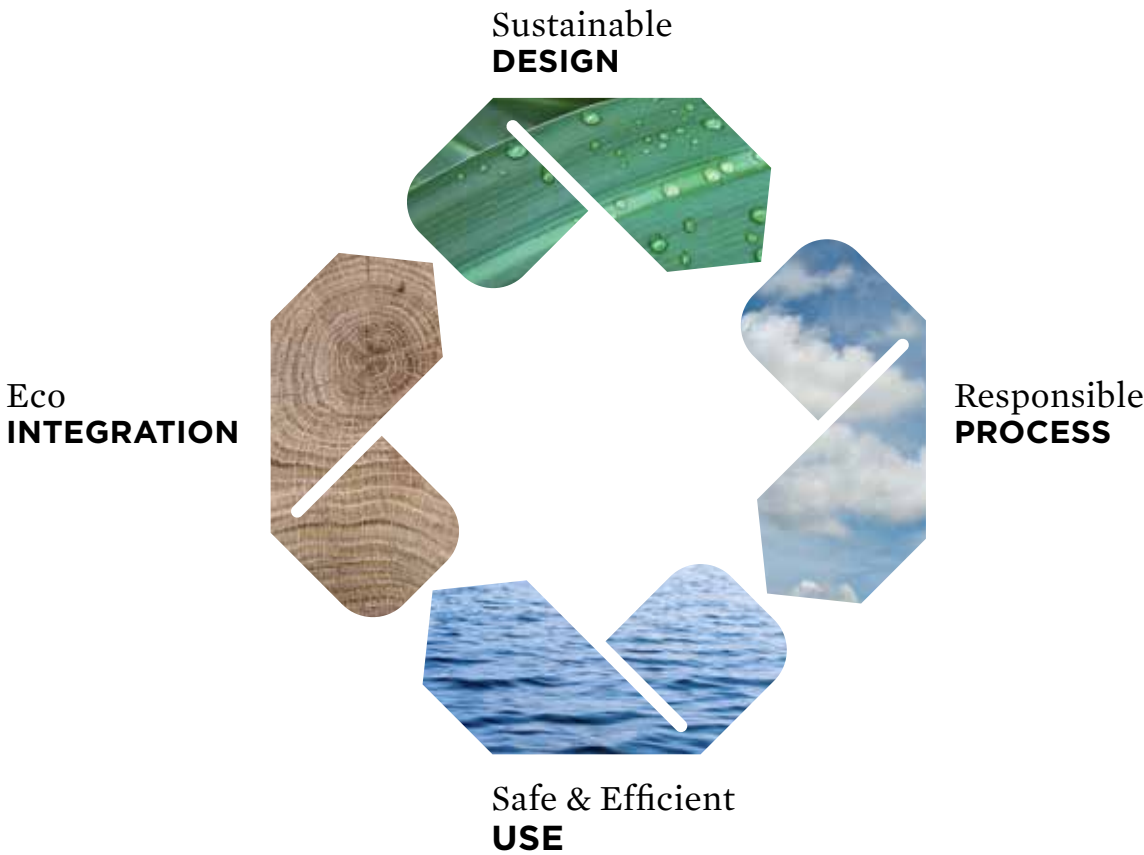
In its four-stage life-cycle concept that covers ingredient composition, manufacturing, formulation & application, and disposal, EcoTain® applies measurable criteria to document the sustainability profile of its products.

Sustainable Design
Sustainable thinking starts in the development stage of a product with its design. Our aim is to develop efficient products based on safer ingredients while maximizing use of renewable raw materials.

Responsible Process
It continues with the implementation of a responsible process. Sustainable production means safer processes with less impact on the environment that help to conserve resources. During this phase, we aim to improve the efficiency of chemical or physical processes during production.

Safe & Efficient Use
The third stage of the EcoTain® life cycle focuses on safe and efficient use, with the spotlight on advantages and benefits during formulation and final application. Not only should products fulfill their designated purpose, but they should also contribute to improving end-product performance and be safe in any given application.

Eco Integration
The last stage of the EcoTain® life cycle is eco-integration – product disposal and the impact it has on the environment. First we look at minimizing waste, then we ensure that if possible waste products are recycled according to environmentally benign principles. The environmental properties of our products are continuously scrutinized and improved.



EcoTain® LIFE CYCLE CRITERIA

Below are just some of the criteria that contribute to defining the EcoTain® label at Clariant. The criteria apply selectively, depending on the product and the process. For a product to be awarded the EcoTain® label by Clariant, it should present benefits at every phase of its life cycle. And naturally it is Clariant’s aim to ensure that the maximum of criteria come into play in order to live up to our goal of sustainable innovation.



Sustainable DESIGN

- Use of raw materials from renewable feedstocks¹,
- Use of raw materials from animal-free sources,
- Use of alternative substances², and/or
- Use of raw materials from certified sources³



Responsible PROCESS

- Yield efficient production,
- Reduced waste generation,
- Energy⁴ & water efficient production,
- Certified for safety & quality⁵,
- Cosmetic GMP certification⁶, and/or
- Reduced transport due to multiple production sites all over the world



Safe & Efficient USE

- For skin-friendly formulations⁷,
- Increased formulation efficiency⁸,
- Less formulation complexity due to multi-functionality of ingredient,
- Eco-label-compliant⁹,
- Replacement for undesired ingredients¹⁰, and/or
- Easy to handle and/or process



Eco INTEGRATION

- Good environmental integration due to renewable feedstock,
- Biodegradable¹¹,
- Improved environmental profile¹², and/or
- No release of volatile organic compounds (VOC)

1 Bio-based content measured by the Renewable Carbon Index (RCI). The RCI defines the share of renewable carbons within the molecule

2 For example GMO-free, halogen-free, formaldehyde-free

3 For example RSPO Mass Balance certified

4 ISO 50001: 2009 Energy Management System

5 ISO 14001: 2004 Environmental Management System, ISO 9001: 2008 Quality Management System, OHSAS 18001: 2007 Occupational Health and Safety Assessment System

6 ISO 22716: 2007 Cosmetic Good Manufacturing Practice

7 No human hazard label according to Globally Harmonized System (GHS)

8 Ingredients boosting performance/efficacy of formulation by providing properties such as being efficient at low concentrations, increasing efficacy of active ingredient and/or reducing number or volume of other ingredients

9 For example Ecocert®, COSMOS, NATRUE

10 For example ingredients suitable for formulations free of silicone, lanolin, petrolatum, EO or sulfate

11 According to OECD standards

12 No environmental hazard label according to Globally Harmonized System (GHS)

How EcoTain® CAN HELP YOU?

More and more consumers prefer natural cosmetics for their daily personal care. They want products that are pure, safe and more ecological – without compromising on quality or performance.

To help you meet your customers’ needs in terms of more friendly, more responsible products as well as your own company targets for sustainability, take advantage of Clariant ingredients that bear the EcoTain® label. EcoTain®-approved products use fewer resources, are safer and still effective. You can be sure you are using a product produced according to sustainable, eco-friendly and efficient standards.



EcoTain® products in PERSONAL CARE

EMOLLIENTS



- Plantasens® Olive LD SP Eco
- Plantasens® VP range
- Plantasens® VL
- Plantasens® Olive Squalane
- Plantasens® Abyssinian Oil
- Plantasens® Natural Butters
- Plantasens® Sensorial Butters

PEARLIZERS



- Perlogen® SF 3000

EMULSIFIERS



- Hostacerin® SFO
- Hostacerin® DGI
- Velsan® SC
- Emulsogen® CCT Green
- Plantasens® Natural Emulsifiers range

ACTIVES



- Plantasens® Crambisol
- Plantasens® Olive Active HP
- Plantasens® Serums range

MILD SURFACTANTS



- Hostapon® SG
- Hostapon® CGN
- Genagen® KB*

PRESERVATIVES & BOOSTERS



- Velsan® SC
- Velsan® AS
- Nipaguard® SCE





*Genagen KB is a sales product of Global Amines Company (Clariant-Wilmar Joint Venture)

EMOLLIENTS



Plantasens® Olive LD SP Eco

Plantasens® Olive LD SP Eco is a unique natural sensorial agent that can be used as a vegetable alternative to silicones. The product provides excellent emolliency for skin and hair care cosmetics. In skin care formulations, it helps to restore the cutaneous barrier and maintains the level of hydration in the skin. Plantasens® Olive LD SP Eco improves the skin feel by providing a unique texture and sensorial performance. Easily introduced in oil phase, Plantasens® Olive LD SP Eco presents superior oxidative stability and is compatible with most cosmetic oils.


 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (Olive Oil)■ Animal-free sources, GMO-free, preservative-free■ INCI: Coco-Caprylate/Caprates (and) Hydrogenated Olive Oil Unsaponifiables	<ul style="list-style-type: none">■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ High dermo-compatibility (for skin-friendly formulations)■ Suitable to replace silicones in formulation. Outstanding sensorial performance■ Multi-functionality reduces formulation complexity (emollient, moisturizer conditioning agent)■ Ingredient is Ecocert® certified■ Easy to handle (liquid) and to process (can be added at any stage in the formulation and compatible with most ingredients)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free

Please refer to page 6 for a more detailed description of criteria




Plantasens® VP range (VP R15, VP 170, VP GL15)

The Plantasens® VP range are natural sensorial agents used as vegetable alternatives to petrolatum. All Plantasens® VP products are easily incorporated into the oil phase and provide deep moisturization in many cosmetic formulations. Plantasens® VPs are used in formulations where fairly high viscosities are required and/or where hydration and utmost protection is desired.



Sustainable DESIGN




Responsible PROCESS

INGREDIENT COMPOSITION


- Based on 100% renewable resources
- Natural origin (castor seed oil, olive oil, carnauba wax, beeswax)
- GMO-free, preservative-free
- INCI: please see footnote

INGREDIENT MANUFACTURING

- Resource efficiency due to high yield
- Minimized waste generation
- Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001
- Cosmetic GMP certification (ISO 22716)



Safe & Efficient USE



Eco INTEGRATION

INGREDIENT FORMULATION

- High dermo-compatibility (for skin-friendly formulations)
- Suitable to replace petrolatum in formulation
- Ingredients are Ecocert® certified
- Easy to process (compatible with all types of emollients)

INGREDIENT ENVIRONMENTAL FATE

- Improved environmental profile
- Good environmental integration due to renewable feedstock
- Expected to be ultimately biodegradable
- VOC-free


INCI: Plantasens® VP GL15 – INCI: Ricinus Communis (Castor) Seed Oil (and) Olea Europaea (Olive) Oil Unsaponifiables
Plantasens® VP R15 – INCI: Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax

Plantasens® VP 170 – INCI: Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax (and) Cera Alba (Beeswax)




Plantasens® VL

Plantasens® VL is a plant-based alternative to lanolin. The product is of similar appearance and offers the performance and sensory benefits of lanolin while satisfying the customers’ and consumers’ desire to avoid animal-derived products. Plantasens® VL acts as moisturizing agent and has a comparable hydration profile to lanolin. Main applications are skin care, sun and after sun products, hair waxes and make-up.



Sustainable DESIGN




Responsible PROCESS

INGREDIENT COMPOSITION


- Based on 100% natural, renewable resources
- Vegetable origin (olive oil, shea butter)
- Animal-free sources, GMO-free, preservative-free, PEG-free
- INCI: Glyceryl Rosinate (and) Butyrospermum Parkii (Shea) Butter (and) Olea Europaea (Olive) Oil Unsaponifiables

INGREDIENT MANUFACTURING

- Resource efficiency due to high yield
- Minimized waste generation
- Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001
- Cosmetic GMP certification (ISO 22716)



Safe & Efficient USE



Eco INTEGRATION

INGREDIENT FORMULATION

- High dermo-compatibility (for skin-friendly formulations)
- Suitable to replace lanolin in formulation. Sensorial profile practically identical to lanolin
- Moisturizing efficacy proven in in-vivo studies
- Ingredient is Ecocert® certified





INGREDIENT ENVIRONMENTAL FATE

- Improved environmental profile
- Good environmental integration due to renewable feedstock
- Expected to be ultimately biodegradable
- VOC-free



Plantasens® Olive Squalane

Plantasens® Olive Squalane is a natural emollient derived 100% from olives that can be used in a wide range of cosmetic applications, particularly in premium products. This excellent emollient is highly stable against oxidation and particularly demanded for its soft, silky touch and non-greasy after-feel.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Guaranteed 100% olive origin by ¹³C/¹²C analysis■ Animal-free sources, GMO-free, preservative-free, solvent-free■ INCI: Squalane	<ul style="list-style-type: none">■ Protect marine biodiversity as it is not derived from shark liver oil■ Resource efficiency due to high yield (approx. 82%) in the production of squalane from squalene■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ High dermo-compatibility (for skin-friendly formulations)■ Excellent sensorial performance■ Ingredient is Ecocert® certified■ Easy to handle (liquid) and to process (stable over a wide range of temperatures; compatible with most cosmetic ingredients)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Plantasens® Abyssinian Oil

Plantasens® Abyssinian Oil originates from the Crambe Abyssinica plant which we locally source from South Africa. Appreciated for its unique skin feel, Abyssinian oil is highly demanded for its ultra-light, clear appearance and excellent emolliency properties.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (Crambe Abyssinica)■ Animal-free sources, GMO-free, preservative-free■ Locally sourced■ INCI: Crambe Abyssinica Seed Oil	<ul style="list-style-type: none">■ Obtained by a green process (cold-pressed without solvents)■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ For skin-friendly formulations■ Excellent sensorial performance■ Ingredient is Ecocert® certified■ Easy to handle (liquid) and to process (stable over a wide range of temperatures; compatible with other oils and ingredients)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Plantasens® Natural Butters

Plantasens® Natural Butters are comprised of an exclusive set of butters (shea, mango, cocoa and babassu) extracted directly from nature. Natural butters are available in refined, organic or refined organic grades. This set of butters offer natural moisturization and care, and are ideal for regenerating creams as well as for all types of body butters, as well as creams and lotions for body and hands.

 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin■ Animal-free sources, GMO-free, preservative-free■ Locally sourced■ INCI: please see footnote	<ul style="list-style-type: none">■ Obtained by a green process (cold-pressed without solvents)■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ For skin-friendly formulations■ Excellent sensorial performance■ Ingredients are Ecocert® certified■ Easy to process (stable over a wide range of temperatures; compatible with other oils and ingredients)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free





Babassu Butter – INCI: Orbignya Oleifera (Babassu) Seed Oil
Mango Butter – INCI: Mangifera Indica (Mango) Seed Butter
Shea Butter – INCI: Butyrospermum Parkii (Shea) Butter
Cocoa Butter – INCI: Theobroma Cacao (Cocoa) Seed Butter

Please refer to page 6 for a more detailed description of criteria



Plantasens® Sensorial Butters

Plantasens® Sensorial Butters offer a large selection of super-rich, 100% vegetable butters. Sensorial butters come in a wide range of fruit and vegetable types (avocado, peach, argan, camelina, peach, lime, etc.) and in addition, they can be customized with your favorite vegetable oil. Main applications are body and hair care, including body butters, creams and lotions as well as conditioning treatments.

 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin■ Animal-free sources, GMO-free, preservative-free■ INCI: please see footnote	<ul style="list-style-type: none">■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ For skin-friendly formulations■ Excellent sensorial performance■ Improving stability of oils sensitive to oxidation■ Ingredient is Ecocert® certified■ Easy to process (stable over a wide range of temperatures; compatible with other oils and ingredients)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free

Apricot Butter – INCI: Prunus Armeniaca (Apricot) Kernel Oil (and) Hydrogenated Vegetable Oil
Argan Butter – INCI: Argania Spinosa Kernel Oil (and) Hydrogenated Vegetable Oil
Avocado Butter – INCI: Persea Gratissima (Avocado) Oil (and) Hydrogenated Vegetable Oil

Peach Butter – INCI: Prunus Persica (Peach) Kernel Oil (and) Hydrogenated Vegetable Oil
Lime Butter – INCI: Citrus Aurantifolia (Lime) Seed Oil (and) Hydrogenated Vegetable Oil
Olive Butter – INCI: Olea Europaea (Olive) Fruit Oil (and) Hydrogenated Vegetable Oil

Please refer to page 6 for a more detailed description of criteria



Hostacerin® SFO

Hostacerin® SFO is a natural co-emulsifier based on vegetable, renewable, and GMO-free sources. Hostacerin® SFO contributes to a rich, elegant skin feel and can be used in a wide variety of skin care products, ranging from very economic products to high-end formulations. Hostacerin® SFO is especially recommended for decorative cosmetics and sun care formulations.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (sunflower seed oil)■ Animal-free sources, GMO-free■ INCI: Sunflower Seed Oil Sorbitol Esters	<ul style="list-style-type: none">■ Resource efficiency due to high yield (100%)■ Minimized waste generation■ Low CO₂ emission due to energy efficiency (one-step process at low temperature)■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ For skin-friendly formulations■ Ingredient is Ecocert® certified and NATRUE conform■ Suitable for PEG-free, silicone-free formulations■ Easy to handle (liquid) and to process (cold-processable)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Readily biodegradable (biodegradation > 90% in 28 days according to OECD 301B)■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Hostacerin® DGI

Hostacerin® DGI is used as versatile W/O emulsifier and as co-emulsifier in combination with hydrophilic emulsifiers in skin care products. The emulsions obtained with Hostacerin® DGI have very good spreading properties and provide a smooth skin feel. It is especially recommended for the formulation of soft creams with lustrous appearance.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (vegetable oil and glycerol)■ Animal-free sources, GMO-free■ INCI: Polyglyceryl-2 Sesquiossearate	<ul style="list-style-type: none">■ Resource efficiency due to high yield (approx. 95%)■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ For skin-friendly formulations■ Emulsification performance at low use concentration■ Ingredient is Ecocert® certified■ Suitable for EO-free formulations■ Easy to handle (liquid) and to process (cold-processable)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Readily biodegradable (biodegradation > 94% in 28 days according to OECD 301 B)■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Emulsogen® CCT Green

Emulsogen® CCT Green is especially recommended for wet wipe applications as it provides a simple system to create sub-micron emulsions from an easy-to-use concentrate. It is compatible with most oils or oil-soluble ingredients as well as with water-soluble ones. An emulsion is formed spontaneously as soon as water is added, and adjustable to cream, lotion and even spray viscosity with any thickener. This helps to produce wet wipes more efficiently by reducing process steps.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION <ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (palm and coconut oil)■ Animal-free sources■ INCI: Caprylic/Capric Triglyceride, Water, Lauryl Glucoside, Glycerin, Sodium Lauroyl Lactylate, Sodium Stearoyl Lactylate, Glyceryl Stearate, Cetearyl Alcohol	INGREDIENT MANUFACTURING <ul style="list-style-type: none">■ Energy efficient process due to innovative, patented blending technology (Nanocon)■ Resource efficient blending process - 100% yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION <ul style="list-style-type: none">■ For skin-friendly formulations■ Resource efficient ingredient due to high active content (100%) and emulsification performance at low use concentration (approx. 1-2%). No emulsifier pre-blend or additional solubilizer required in the formulation.■ Ingredient is Ecocert® certified■ Easy to process (cold-processable, perfume and oil can be formulated in one single step into Emulsogen® CCT Green)	INGREDIENT ENVIRONMENTAL FATE <ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Biodegradable (Biodegradation of approx. 93% in 28 days according ISO 10708 method)■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Plantasens® Natural Emulsifiers (CP5, HP10, HE20)

Plantasens® Natural Emulsifier CP5 is a cold-processable W/O emulsifier with a nourishing and fresh skin feel. Its instant hydration makes it ideal for moisturizing creams, body milks and lotions.
Plantasens® Natural Emulsifier HP10 is a O/W emulsifier with a robust performance and surprisingly fresh skin feel. The HP10 is ideal for creams like after-shave balms, eye-serums and after-sun care.
Plantasens® Natural Emulsifier HE20 is an O/W emulsifier with a light and fresh skin feel. Thanks to its one-pot process, HE20 can be easily used to formulate a wide range of emulsions from sprayable lotions to thick creams.

 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION <ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin■ Animal-free sources, GMO-free, PEG-free■ INCI: please see footnote	INGREDIENT MANUFACTURING <ul style="list-style-type: none">■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION <ul style="list-style-type: none">■ For skin-friendly formulations■ No need to add co-emulsifiers■ Ingredient is Ecocert® certified■ Easy to handle (CP5: gel; HP10/HE20: flake) and to process (CP5: cold-processable; HE20: one-pot process)	INGREDIENT ENVIRONMENTAL FATE <ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free





CP5 - INCI: Glyceryl Oleate (and) Polyglyceryl-3-Polyricinoleate (and) Olea Europaea (Olive) Oil Unsaponifiables
HP10 - INCI: Sucrose Polystearate (and) Cetearyl Alcohol (and) Olea Europaea (Olive) Oil Unsaponifiables
HE20 - INCI: Cetearyl Glucoside (and) Sorbitan Olivatate

Please refer to page 6 for a more detailed description of criteria



Hostapon® SG

Hostapon® SG is a mild amino acid surfactant for rinse-off products such as shampoos, body soaps, facial cleansers and shaving preparations. Hostapon® SG is significantly milder than other anionic surfactants. It creates rich and creamy foam that rinses easily off skin or hair to leave a cleaner feeling after use.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 85% natural, renewable resources■ Vegetable origin (coconut oil and glycine, the amino acid of human collagen)■ Animal-free sources, GMO-free■ INCI: Sodium Cocoyl Glycinate	<ul style="list-style-type: none">■ Resource efficiency due to high yield (approx. 95%)■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)■ Global production (Spain, USA, China) can help to reduce transport
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ Mild surfactant for cosmetics with enhanced skin compatibility■ Excellent rinse properties of formulation at low in-use concentration of ingredient■ Multifunctionality (skin moisture, rich foam) reduces formulation complexity■ Suitable for EO-free and sulfate-free formulations■ Easy to handle (low viscosity liquid) and to process (cold-processable)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Readily biodegradable (biodegradation > 83% in 28 days according to OECD 301 B)■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Hostapon® CGN

Hostapon® CGN is a very mild co-surfactant and ideal ingredient for the preparation of high quality skin cleansing products. It contributes to skin moisture and provides excellent skin feel. Due to its mildness, Hostapon® CGN is particularly suitable for the production of mild hair and body cleansing products, such as shampoos, shower gels, liquid soaps, cleansing lotions and baby care products.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (natural amino acid & coconut oil)■ Animal-free sources, GMO-free, preservative-free■ INCI: Sodium Cocoyl Glutamate	<ul style="list-style-type: none">■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ Mild surfactant for cosmetics with enhanced skin compatibility■ Adsorption of SLES on skin can be significantly reduced by adding Hostapon® CGN■ Excellent rinse properties correlate with an increased moisture content of the skin and with an improved sensory perception of the formulations■ Ecocert® certified■ Suitable for EO-free and sulfate-free formulations■ Easy to handle (liquid) and to process (cold-processable)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Readily biodegradable (biodegradation > 88% in 28 days according to OECD 301 E)

Please refer to page 6 for a more detailed description of criteria



Genagen® KB*

Genagen® KB is an amphoteric mild surfactant with synergistic thickening properties and good skin compatibility, especially in combination with anionic surfactants. The ingredient is highly suitable for shampoos, bubble bath products and shower gels, generally formulated in combination with other surfactants. Genagen® KB helps to reduce – or can even eliminate – the need for other thickeners. Further, it provides superior foaming performance compared to Cocoamidopropyl Betaine.





 <div>Sustainable DESIGN</div>	 <div>Responsible PROCESS</div>
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 75% natural, renewable resources■ Vegetable origin (coconut oil)■ Animal-free sources, GMO-free■ INCI: Coco-Betaine	<ul style="list-style-type: none">■ Resource efficiency due to high yield (approx. 95%)■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 <div>Safe & Efficient USE</div>	 <div>Eco INTEGRATION</div>
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ Mild surfactant for cosmetics with enhanced skin compatibility■ Excellent rinse properties of formulation at low in-use concentration of ingredient■ Multi-functionality reduces formulation complexity (mild co-surfactant and thickener properties)■ Ecocert® certified■ Suitable for EO-free formulations■ Easy to handle (pumpable liquid)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Readily biodegradable (biodegradation 79% in 28 days according to OECD 301B)■ VOC-free

*Genagen KB is a sales product of Global Amines Company (Clariant-Wilmar Joint Venture)



Perlogen® SF 3000





Perlogen® SF 3000 is a liquid pearlizing concentrate for rinse-off products such as shampoos, liquid hand soaps, nourishing conditioners and moisturizing cleansers. It delivers an intensive silky shine appearance to the formulation at low in-use concentrations. The color spectrum and light reflexes are similar to natural pearls due to the ingredient’s liquid crystalline lamellar structure.

 <div>Sustainable DESIGN</div>	 <div>Responsible PROCESS</div>
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on approx. 70% natural, renewable resources■ Vegetable origin (palm and coconut oil)■ Animal-free sources, GMO-free, sulfate-free■ INCI: Aqua (and) Glycol Distearate (and) Laureth-4 (and) Cocoamido Betaine	<ul style="list-style-type: none">■ Energy efficient process due to innovative, patented blending technology (Nanocon)■ Resource efficient blending process – 100% yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 <div>Safe & Efficient USE</div>	 <div>Eco INTEGRATION</div>
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ Resource efficient ingredient as it delivers a superior performance against existing market benchmarks at reduced active content■ Excellent pearlizing effect at low concentrations (0.5%-0.7%)■ Suitable for sulfate-free formulations■ Easy to handle (liquid) and to process (cold-processable)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Biodegradable (biodegradation of main component is min. 80% in 28 days according to OECD 302B)■ VOC-free



Plantasens® Crambisol

Plantasens® Crambisol is a natural ingredient for innovative beauty formulations. This product provides moisturizing properties in face and sun care formulations, as well as a nourishing, protecting and conditioning effect in shampoo and other hair care formulations. Plantasens® Crambisol combines the positive effect of Abyssinian Oil with the bio-active effects of phytosterols.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (Crambe Abyssinica).■ Animal-free sources, GMO-free, preservative-free■ Locally sourced■ INCI: Crambe Abyssinica Seed Oil (and) Phytosterols	<ul style="list-style-type: none">■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ For skin-friendly formulations■ Effective in skin and hair care at low in-use concentration■ Ingredient is Ecocert® certified■ Easy to handle (liquid) and to process (wide compatibility, stable formulations)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Plantasens® Olive Active HP

Plantasens® Olive Active HP is a natural anti-aging active for skin care formulations. The product is derived from olive origin and is highly concentrated in unsaponifiables. Plantasens® Olive Active HP provides high emolliency while at the same time acting as an anti-aging active (in vitro data).





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION	INGREDIENT MANUFACTURING
<ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Guaranteed 100% olive origin by ¹³C/¹²C analysis■ Animal-free sources, GMO-free, preservative-free■ INCI: Olea Europaea (Olive) Oil Unsaponifiables	<ul style="list-style-type: none">■ Resource efficiency due to use by-products generated in the olive oil production■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION	INGREDIENT ENVIRONMENTAL FATE
<ul style="list-style-type: none">■ High dermo-compatibility (for skin-friendly formulations)■ Ingredient is Ecocert® certified■ Easy to handle (liquid)	<ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Plantasens® Serums range (Aby, Avo, Camelina, Grape, Lemon, Lime, Oat, Orange, Pink Grapefruit)

Plantasens® Serums are lipophilic complexes based on essential nutriments (Omega 3, 6 or 9), biological ingredients (phytosterols) and olive unsaponifiables. Main applications are in face, body and sun-care formulations where the serums act as skin repair agents and moisturizers.





 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION <ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (aby, avo, camelina, grape, lemon, lime, oat, orange, pink grapefruit)■ Animal-free sources, GMO-free, preservative-free■ INCI: Vegetable Oil (and) Phytosterols (and) Olea Europaea (Olive) Oil Unsaponifiables	INGREDIENT MANUFACTURING <ul style="list-style-type: none">■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION <ul style="list-style-type: none">■ High dermo-compatibility (for skin-friendly formulations)■ Ingredient is Ecocert® certified■ Easy to handle (pourable) and to process (easily incorporated in oil phase, high compatibility with other ingredients)	INGREDIENT ENVIRONMENTAL FATE <ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Expected to be ultimately biodegradable■ VOC-free

Please refer to page 6 for a more detailed description of criteria



Velsan® SC

VELSAN® SC eases the preservation of cosmetic products. The ingredient delivers synergistic and efficacy-boosting performance for preservative systems and allows the reduction of the overall concentration of preservatives. It can be used in conjunction with e.g. aromatic alcohols, organic acids or with non-listed actives to stabilize “preservative-free” cosmetics. In surfactant formulations, VELSAN® SC offers emulsifying and viscosity enhancing properties.


 Sustainable DESIGN	 Responsible PROCESS
INGREDIENT COMPOSITION <ul style="list-style-type: none">■ Based on 100% natural, renewable resources■ Vegetable origin (sorbitol and coconut oil)■ Animal-free sources, GMO-free■ INCI: Sorbitan Caprylate	INGREDIENT MANUFACTURING <ul style="list-style-type: none">■ Resource efficiency due to high yield■ Minimized waste generation■ Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001■ Cosmetic GMP certification (ISO 22716)
 Safe & Efficient USE	 Eco INTEGRATION
INGREDIENT FORMULATION <ul style="list-style-type: none">■ For skin-friendly formulations■ Boosts the efficacy of preservatives. Effective at low in-use concentration. Reduces overall content of preservatives in formulation■ Multi-functionality reduces formulation complexity (preservative booster, emulsifier, rheology modifier)■ Ingredient is Ecocert® certified■ Suitable for EO-free and preservative-free cosmetics■ Easy to handle (liquid)	INGREDIENT ENVIRONMENTAL FATE <ul style="list-style-type: none">■ Improved environmental profile■ Good environmental integration due to renewable feedstock■ Readily biodegradable (biodegradation 88% in 28 days according to OECD 301B)■ VOC-free

Please refer to page 6 for a more detailed description of criteria




VELSAN® AS

VELSAN® AS is a nature-identical, multi-functional fragrance with preservative supporting efficacy, suitable for all kinds of cosmetics, including formulations with “natural” claims. Velsan® AS exhibits microbial activity against a wide range of bacteria, yeast and molds. In combination with Velsan® SC (INCI: Sorbitan Caprylate), the product further boosts the preservative performance. INCI-designation on the final cosmetic product can be fragrance (perfume) or p-Anisic Acid.



Sustainable DESIGN




Responsible PROCESS

INGREDIENT COMPOSITION


- Nature-identical ingredient
- Animal-free sources, GMO-free
- INCI: p-Anisic Acid

INGREDIENT MANUFACTURING

- Resource efficiency due to high yield (approx. 99% active)
- Minimized waste generation
- Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001
- Cosmetic GMP certification (ISO 22716)



Safe & Efficient USE



Eco INTEGRATION

INGREDIENT FORMULATION

- Supports preservation of the formulation. Effective at very low in-use concentration (0.2-0.4%).
- Multi-functionality reduces formulation complexity (fragrance, neutralizer, supports preservation)
- Suitable for EO-free and preservative-free cosmetics

INGREDIENT ENVIRONMENTAL FATE


- Improved environmental profile
- Readily biodegradable (biodegradation 90% in 28 days according to OECD 301D)

Please refer to page 6 for a more detailed description of criteria




Nipaguard® SCE

Nipaguard® SCE is a broad spectrum antimicrobial agent comprised of a synergistic blend of benzoic acid in Velsan® SC (INCI: Sorbitan Caprylate) and propanediol; designed for the preservation of a wide range of cosmetics and toiletries. The product exhibits microbial activity against a wide range of bacteria, yeast and molds. Nipaguard® SCE is Ecocert® certified, which makes it ideal for preservation of cosmetic products with “natural” claims.



Sustainable DESIGN




Responsible PROCESS

INGREDIENT COMPOSITION


- 85% based on natural, renewable resources
- Vegetable origin (Velsan SC; 1,3-propanediol)
- Animal-free sources, halogen-free, formaldehyde-free
- INCI: Sorbitan Caprylate (and) Propanediol (and) Benzoic Acid

INGREDIENT MANUFACTURING

- Resource efficient blend of three ingredients
- Minimized waste generation
- Certified for safety & quality according to ISO 9001, ISO 14001 and OHSAS 18001
- Cosmetic GMP certification (ISO 22716)



Safe & Efficient USE



Eco INTEGRATION

INGREDIENT FORMULATION

- Effective preservation at low in-use concentration (0.5-1.5%). Synergistic blend with only 15% preservative.
- Ecocert® certified
- Suitable for EO-free and parabene-free cosmetics
- Easy to handle (pumpable liquid blend) and to process (readily miscible with organic solvents, surfactants, emulsifiers)

INGREDIENT ENVIRONMENTAL FATE

- Improved environmental profile
- Readily biodegradable (biodegradation > 80% in 28 days according to OECD 301B)

Please refer to page 6 for a more detailed description of criteria

PRODUCT OVERVIEW



PRODUCT OVERVIEW			Skin Care			Hair Care										
			Face Care	Body Care	Sun Care	Shampoo	Conditioner									Ecocert® approved¹
Products	Description	INCI														Additional benefits
EMOLLIENTS																
Plantasens® Olive LD SP Eco	Natural alternative to silicone with similar cosmetic properties and a soft, dry and elegant after feel.	Coco-Caprylate/Caprate (and) Hydrogenated Olive Oil Unsaponifiables	●	●	●	●	●	✓	100%	✓	✓	✓	✓		*	
Plantasens® VP R15	Plant-based alternative to petrolatum designed to provide deep moisturization and utmost skin protection.	Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax	●	●	●			✓	100%	✓	✓	✓			*	
Plantasens® VP 170	Plant-based alternative to petrolatum designed to provide deep moisturization and utmost skin protection.	Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax (and) Cera Alba (Beeswax)	●	●			●	✓	100%		✓	✓			*	
Plantasens® VP GL15	Plant-based alternative to petrolatum designed to provide deep moisturization and utmost skin protection.	Ricinus Communis (Castor) Seed Oil (and) Olea Europaea (Olive) Oil Unsaponifiables	●	●	●			✓	100%	✓	✓	✓			*	
Plantasens® VL	Plant-based alternative to lanolin with a truly comparable lanolin feel and cosmetic finish.	Glyceryl Rosinate (and) Butyrospermum Parkii (Shea) Butter (and) Olea Europaea (Olive) Oil Unsaponifiables	●	●				✓	100%	✓	✓	✓			*	
Plantasens® Olive Squalane	100% olive origin Squalane guaranteed by the ΔC13/C12 analysis.	Squalane	●	●	●			✓	100%	✓	✓	✓	✓		*	
Plantasens® Abyssinian Oil	Highly interesting plant oil for its unique skin-feel, ultra light apperance and emolliency properties.	Crambe Abyssinica Seed Oil	●	●	●	●	●	✓	100%	✓	✓	✓	✓		*	
Plantasens® Natural Butters	Nature's best moisturizers for skin and hair also add richness and smoothness to formulations. Four different kinds available: Babassu, Mango, Shea, Cocoa.	Orbignya Oleifera (Babassu) Seed Oil / Mangifera Indica (Mango) Seed Butter / Butyrospermum Parkii (Shea) Butter / Theobroma Cacao (Cocoa) Seed Butter	●	●	●		●	✓	100%	✓	✓	✓			*	Organic grades available for Babassu, Shea, Cocoa
Plantasens® Sensorial Butters	Very smooth and creamy butter textures for the desirable soft skin and beautiful hair. Available in: Apricot, Argan, Avocado, Peach, Lime, Black Currant, Camelina, Grapeseed, Sweet Almond.	Vegetable Oil (and) Hydrogenated Vegetable Oil	●	●	●		●	✓	100%	✓	✓	✓			*	Also customizable with your favorite vegetable oil
EMULSIFIERS																
Hostacerin® SFO	Natural co-emulsifier which contributes to rich, elegant skin feel.	Sunflower Seed Oil Sorbitol Esters	●	●	✓	●		✓	100%	✓	✓		✓	> 90% (OECD 301B)	Suitable for EO-free and silicone-free formulations	
Hostacerin® DGI	Versatile W/O emulsifier and co-emulsifier in combination with hydrophilic emulsifiers to provide a nice skin feel.	Polyglyceryl-2-Sesquisostearate	●	●		●	●	✓	100%	✓	✓		✓	> 94% (OECD 301B)	Suitable for EO-free formulations	
Emulsogen® CCT Green	Easy-to-use concentrate, compatible with most oils or oil soluble ingredients for wet wipe applications.	Caprylic / Capric Triglyceride, Water, Lauryl Glucoside, Glycerin, Sodium Lauroyl Lactylate, Sodium Stearoyl Lactylate, Glyceryl Stearate, Cetearyl Alcohol	●	●				✓	100%	✓	✓		✓	> 93% (ISO 10708)		
Plantasens® Natural Emulsifier CP5	W/O-emulsifier with a nourishing and fresh skin feel. Ideal for highly moisturizing creams.	Glyceryl Oleate (and) Polyglyceryl-3-Polyricinoleate (and) Olea Europaea (Olive) Oil Unsaponifiables	●	●	●			✓	100%	✓	✓		✓		*	
Plantasens® Natural Emulsifier HP10	O/W-emulsifier with a robust performance and surprisingly fresh skin-feel. Great for creams like after shave balms and serums.	Sucrose Polystearate (and) Cetearyl Alcohol (and) Olea Europaea (Olive) Oil Unsaponifiables	●	●			●	✓	100%	✓	✓				*	Quick break effect and liquid crystal formation
Plantasens® Natural Emulsifier HE20	O/W-emulsifier with a light and fresh skin feel. Easily used in emulsions from sprayable lotions to thicker creams.	Cetearyl Glucoside (and) Sorbitan Olivat		●	●			✓	100%	✓	✓				*	One-pot process
MILD SURFACTANTS																
Genagen® KB	Amphoteric mild surfactant with synergistic thickening properties and good skin compatibility.	Coco-Betaine	●	●		●	●	✓	75%	✓	✓		✓	79% (OECD 301B)	Suitable for EO-free formulations	
Hostapon® SG	Mild amino acid surfactant that creates rich and creamy foams, leaving a cleaner feeling after use.	Sodium Cocoyl Glycinate	●	●		●			85%	✓	✓		✓	> 83% (OECD 301B)	Suitable for EO-free and sulfate-free formulations	
Hostapon® CGN	Very mild co-surfactant contributing to skin moisture and providing excellent skin feel.	Sodium Cocoyl Glutamate		●		●		✓	100%	✓	✓	✓	✓	> 88% (OECD 301E)	Suitable for EO-free and sulfate-free formulations	
PEARLIZERS																
Perlogen® SF 3000	Liquid pearlizing concentrate for rinse-off products delivering intensive, silky shine at low in-use concentration.	Aqua (and) Glycol Distearate (and) Laureth-4 (and) Cocamidopropyl Betaine				●	●		70%	✓	✓		✓	> 80% (OECD 302B)	Suitable for sulfate-free formulations	
ACTIVES																
Plantasens® Crambisol	A unique combination of the positive effect of abyssinian oil with the bio-active effects of phytosterols for innovative formulations.	Crambe Abyssinica Seed Oil (and) Phytosterols	●		●	●	●	✓	100%	✓	✓	✓	✓		*	
Plantasens® Olive Active HP	Natural anti-aging active for skin care formulations.	Olea Europaea (Olive) Oil Unsaponifiables	●	●				✓	100%	✓	✓	✓	✓		*	
Plantasens® Serums range	Lipophilic complexes based on essential nutriments (Omega 3, 6 or 9), phytosterols and olive unsaponifiables.	Vegetable Oil (and) Phytosterols (and) Olea Europaea (Olive) Oil Unsaponifiables	●	●	●			✓	100%	✓	✓	✓	✓		*	
PRESERVATIVES & BOOSTERS																
Velsan® SC	Synergistic efficacy-boosting performance allowing reduction of overall concentration of preservatives. Also offers emulsifying and viscosity enhancing properties.	Sorbitan Caprylate	●	●	●	●	●	✓	100%	✓	✓		✓	> 88% (OECD 301B)	Suitable for EO-free and preservative-free cosmetics	
Velsan® AS	Nature identical, multi-functional fragrance with preservative supporting efficacy.	p-Anisic Acid	●	●	●	●	●			✓	✓	✓		90% (OECD 301D)	Suitable for EO-free and preservative-free cosmetics	
Nipaguard® SCE	Broad spectrum blend designed for the preservation of a wide range of cosmetic products.	Sorbitan Caprylate (and) Propanediol (and) Benzoic Acid	●	●	●	●	●	✓	85%	✓			✓	> 80% (OECD 301B)	Suitable for EO-free and parabene-free cosmetics	

¹ Registered trademark of ECOCERT®
F-32600 L'ISLE JOURDAIN (FR)

* Expected to be ultimately biodegradable

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