



INFINITY INGREDIENTS

Inspiring Cosmetics

**Surfactants, Emulsifiers and
Gelling Agents**

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Surfactants, co-surfactants, emulsifiers, co-emulsifiers and gelling agents are used in almost all cosmetic products. The selection of these ingredients very much depends on whether the formulation is natural/organic or synthetic, the performance required and product category.

Surfactants & Co-Surfactants

FOAMIN'TEA

(INCI: Camellia oleifera seed extract)

FOAMIN'TEA is a 100% natural and upcycled plant powder with surfactant assets and is a by-product of the tea seeds oil extraction. Thanks to its properties, FOAMIN'TEA can replace your usual surfactant to create a generous foaming effect, with cleaning and antimicrobial actions. This anionic surfactant is ideal for use in a variety of applications including: dry cleansers, micellar waters, shower gels, shampoos, cleaning pastes and toothpastes.

Recommended usage level: TBC

Green CAPB-B

(INCI: Cocamidopropyl betaine)

The Green CAPB-B is obtained by the crude babaçu oil. This oil is rich in lauric, myristic and oleic fatty acids. This allows the actives products presents in the formulation to be better absorbed by the hair, enhancing its effects. In addition, the oil is known for its emollient properties and for its lightness in the hair fiber, being absorbed quickly without affecting its movement or leaving them oily.

The Green CAPB-B has excellent dermal compatibility and associated with anionic surfactants, allow a synergistic reduction of irritability to the eyes and skin, brings a soft and creamy foam, besides that, it is naturally more viscous. Can be used in clear and pearly shampoos formulations, formulations for kids, shower gel, shower foam, liquid soaps.

Recommended usage level: 1 - 5% hair care and 1 - 8% skin care.

Green Behenic

(INCI: Behenamidopropyl Dimethylamine)

Green Behenic is a high performance conditioning agent with excellent sensory properties, which is adsorbed by the negatively charged surface of the hair, without leaving residues or weighing the hair. It gives high, wet and dry, combability, soft touch and reduced frizz and volume.

Recommended usage level: 0.5 - 2%

Green Cocoamphoacetate B

(INCI: Sodium Babassuamphoacetate)

Green Cocoamphoacetate B (from Babaçu oil) is a mild amphoteric vegetal surfactant (35 - 40% active) that is Cosmos certified. It is a multi-functional ingredient that can be used in a variety of personal and hair care applications as well as baby/ kids care.

Rich in lauric, myristic and oleic fatty acids, its benefits of application to the skin and hair are superior to the conventional product of the market.

Recommended usage level: 3%

TI-GrnSurf® LCI

(INCI: Water (Aqua), Disodium Laureth Sulfosuccinate, Coco-Betaine, Sodium Cocoyl Isethionate, Sodium Lauryl Sulfoacetate)

TI-GrnSurf® LCI is a unique synergistic mixture of mild secondary surfactants, designed to achieve primary surfactant performance. It is ideal for use in mild cleansing applications with pH's in the range of 4.5 to 6.5 such as shampoos, bubble baths, hand soaps and other mild personal care products.

Its mildness helps contribute to colour retention in shampoos for treated hair. It is especially designed for use in combination with TI-NatSurf® BW at specific ratios to obtain crystal clear viscous sulphate-free systems.

It can also be used in combination with other non-ionics or amphoteric.

Recommended usage level: 25 – 50%

TI-NatSurf® FHS

(INCI: Aqua (Water), Caprylyl/ Capryl Glucoside, Sodium Lauroyl Sarcosinate, Decyl Glucoside, Cocamidopropyl Hydroxysultaine, Sodium Cocoyl Amino Acids (Apple))

TI-NatSurf® FHS is specifically designed for use in low viscosity aerated pump foaming systems. It may be used as the primary or as the secondary surfactant in a variety of sulphate-free toiletry preparations using aerated pump foaming systems as their mode of delivery.

It has excellent compatibility with traditional anionic systems, such as lauryl and laureth sulphates and a variety of sulphonates. Its hydrophobe compatibility allows the formulation of crystal clear micro-emulsions or stable opaque dispersions with emollient esters, and other natural polar oils.

Recommended usage level: 25 - 50%

TI-NatSurf® BW

(INCI: Aqua (Water), Decyl Glucoside, Sodium Myristoyl Sarcosinate, Cocamidopropyl Hydroxysultaine, Sodium Cocoyl Amino Acids (Apple))

TI-NatSurf® BW is designed for formulating premium range of high-end bath, body, and hair products. It may be used as the primary or as the secondary surfactant offering excellent hydrophobe compatibility without compromising foam integrity.

It has excellent compatibility with traditional anionic systems, such as lauryl and laureth sulphates and a variety of sulphonates, making it an ideal choice for secondary surfactant replacement, to improve foam characteristics of a system.

Its uncompromising foam performance in the presence of natural polar oils, makes it the ideal candidate in the preparation of moisturising bath products offering exception post-rinse sensory.

Recommended usage level: 25 – 50%

TI-NatSurf® QCB

(INCI: Aqua (Water), Cocamidopropyl Hydroxysultaine, Myristamine Oxide, Caprylyl/ Capryl Glucoside, Decyl Glucoside)

The TI-NatSurf® QCB is a uniquely designed to provide versatility in formulation a wide range of personal care cleansing preparations. It may be used as the primary or as the secondary surfactant offering excellent hydrophobe compatibility without compromising foam integrity.

It has excellent compatibility with traditional anionic systems, such as lauryl and laureth sulphates and a variety of sulphonates, making it an ideal choice for secondary surfactant replacement, to improve foam characteristics of a system. Its hydrophobe compatibility allows the formulation of crystal clear micro-emulsions with emollient esters, and other natural polar oils, offering exception post-rinse sensory.

It is compatible with quaternary ammonium compounds and other cationics, and has great compatible with high electrolyte levels, while still maintain a crystal clear system.

Recommended usage level: 25 – 50%

Esters

Emulsifiers & Co-Emulsifiers O/W

Amisol™ Soft

(INCI: Behenyl Alcohol (and) Glyceryl Stearate (and) Lecithin (and) Glycine Soja (Soybean) Sterols)

Amisol™ Soft is an optimised blend of Phospholipids, Phytosterols and vegetable Lipids which forms lamellar O/W emulsions for soft applications. This biomimetic structure is particularly suitable for sensitive or stressed skins.

Amisol™ Soft maintains the protective function of the Stratum corneum, reduces TEWL and optimises hydration. Ideal for sensitive skin, baby, sun care and makeup applications.

Recommended usage level: 3 - 6%

Biophilic™ H MB

(INCI: Hydrogenated Lecithin, C12-16 Alcohols, Palmitic Acid)

A patented natural and Cosmos certified lamellar O/W system based on the emulsifying properties of Phospholipids combined with vegetable Lipids.

The lamellar emulsion mimics the lipid structure of the Stratum Corneum for perfect affinity. It acts as a "second skin" and helps restore the cutaneous barrier of damaged skin.

Biophilic™ H MB is a hydrogenated Lecithin that is also a universal well being provider. The emulsion melts on the skin during the application and forms a restructuring film which reduces TEWL.

Recommended usage level: 3 - 6%

Babaçu oil

(INCI: Orbignya Oleifera Seed Oil)

Babaçu oil has emulsifying properties making it ideal for the preparation of O/W type emulsions. As an active ingredient, it can be used in skin and hair products for moisturisation. In soap it can be used to replace fats of animal and vegetable origin and as a raw material to obtain surfactants.

Babaçu almond is used in baby products in the form of liquid talc. When crushed, the seed produces a powder, known as babaçu powder, which absorbs moisture and helps protect the baby's skin, especially in the region of direct contact with the nappy.

Recommended usage level: 0.5 - 5% creams and lotions; 0.5 - 8% bar soaps and 0.1 - 1% in hair products

Biophilic™ S MB

(INCI: Lecithin, C12-16 Alcohols, Palmitic Acid)

A patented natural and Cosmos certified lamellar O/W system based on the emulsifying properties of Phospholipids combined with vegetable Lipids.

The lamellar emulsion mimics the lipid structure of the Stratum Corneum for perfect affinity. It acts as a "second skin" and helps restore the cutaneous barrier of damaged skin.

Biophilic™ S MB contains non-hydrogenated Lecithin and as such, a chelating agent and antioxidant is required. The emulsion melts on the skin during the application and forms a restructuring film which reduces TEWL.

Recommended usage level: 3 - 6%

Evicare® emulgiza light

(INCI: Glyceryl Stearate Citrate, Cetearyl Alcohol, Glyceryl Laurate)

Evicare® emulgiza light is a versatile O/W emulsifier blend that has the ability to create a variety of textures.

It is 100% natural, COSMOS/ECOCERT and NaTrue approved.

Supplied in pellets for ease of handling this fast-emulsifying emulsifier also offers a preservative boosting effect.

Recommended usage level: 3.5 - 5.0%

Evicare® GB

(INCI: Glyceryl Behenate)

Evicare® GB is a 100% natural O/W co-emulsifier and thickener. It imparts body and texture to emulsions by its crystallization in the emulsion and by forming a network between the oil droplets. It also lowers the surface tension between water and oil and therefore helps in the emulsification process like other long chain glyceryl monoesters. Due to its very long (C-22) carbon chain it is more effective and creates a different character in the cream. Evicare® GB can be added to the hot water phase as it requires melting to be activated. Mix it well prior to addition of the oil phase and homogenization.

Recommended usage level: 1 - 3%

Evicare® emulgiza rich

(INCI: Glyceryl Stearate Citrate, Cetearyl Alcohol, Glyceryl Behenate)

Evicare® emulgiza rich is a highly effective emulsifier blend for O/W-emulsions to create both low and high viscosities.

It is a combination of the well-known food grade emulsifier, Glyceryl Stearate Citrate (proven for many years to be safe and skin compatible) with two co-emulsifiers, Cetearyl Alcohol and Glyceryl Behenate in an easy-to-use pelletised blend, which is suitable to create a range of different formulation concepts.

Recommended usage level: 2.5 - 7%

Evicare® GSC

(INCI: Glyceryl Stearate Citrate)

Evicare® GSC is a true evergreen in O/W-technology. This powerful, robust and 100% natural emulsifier gives reliable and stable emulsions under many conditions. It works with all kinds of emollients and other ingredients and even with surfactants. It is food grade and like all other palm-based products of our range RSPO MB. Used in natural and conventional skin care products such as, face care, baby care and sun care – there are virtually no limits for this easy to use O/W-emulsifier. It can be used on its own or combined with co-emulsifiers or texturizers.

Recommended usage level: 2.0 - 3.0%

Evicare® GSC pof

(INCI: Glyceryl Stearate Citrate)

Evicare® GSC palm free is a true evergreen in O/W-technology. This powerful, robust and 100% natural emulsifier gives reliable and stable emulsions under many conditions. It works with all kinds of emollients and other ingredients and even with surfactants. For people concerned about the sustainability of palm products we have this important emulsifier in a palm free version, too. Evicare® GSC pof is used in natural and conventional skin care products. Skin care, face care, baby care or sun care – there are virtually no limits for this easy to use O/W-emulsifier. It can be used on its own or combined with co-emulsifiers or texturizers.

Recommended usage level: 2.0 - 3.0%

Evicide® GML

(INCI: Glyceryl Laurate)

Evicide® GML has a number of exciting functions: It is a skin conditioner, surfactant thickener and also a co-emulsifier used for a quicker emulsifying process and for achieving a highly homogenous droplet dispersion in O/W emulsions. Evicide® GML is mostly known for its antimicrobial effect and preservative boosting capabilities in cosmetic formulations.

The short chain glyceryl monoesters show good efficacy against microorganisms. Within this group, Evicare® GMCY stands out in terms of efficacy but can sometimes compromise the emulsion stability. Evicide® GML is very interesting regarding its promoting effect for emulsion formation while having no issues of lowering viscosity or destabilising emulsions.

Recommended usage level: 0.5 - 2%

Evicare® PGS

(INCI: Polyglyceryl-3 Stearate)

A highly efficient emulsifier for oil-in-water (O/W) systems. It can be applied in any emulsion type, from soft to rich and with varying viscosities including sprays.

The product is composed of Polyglyceryl-3 Stearate, which has been used in cosmetics and food for many years. It is non-toxic and compatible with ingredients of any type or structure. The product is completely natural, manufactured from glycerin and stearic acid by esterification.

Evicare® PGS is COSMOS certified and conforms with other natural cosmetics certification labels.

Recommended usage level: 1 – 4% depending on oil phase and presence of co-emulsifiers.

Heliofeel™ 22 MB

(INCI: Glyceryl Stearate Citrate, Polyglyceryl-3 Stearate, Hydrogenated Lecithin)

Heliofeel™ is a natural emulsifier for the formulation of O/W emulsions. Easy to use, it is compatible with a large variety of oils and forms particularly stable emulsions in presence of electrolytes and other destabilising agents. Ideal for suncare it provides high water resistance to formulations with chemical UV filters as well as boosting the SPF value.

Polyvalent, it allows the formulation of a wide range of textures leaving a soft and velvety touch. Ideal for sprayable to cream emulsions, wipes, suncare and make-up applications.

Recommended usage level: 3 - 6%

Heliosoft™

(INCI: Behenyl Alcohol, Glyceryl Behenate, Lecithin)

Heliosoft™ is a 100% natural origin O/W emulsifier, composed of sunflower phospholipids and fatty esters and alcohols from rapeseed.

Phospholipid-based, Heliosoft™ promotes lamellar organisation in formulas, providing a perfect affinity to the skin and an extreme tolerance. This biomimetic structure of

Heliosoft™ brings an unctuous touch, while leaving a very soft and comfortable sensation as well as a protective film on the skin after application. Heliosoft™ is highly efficient as it is able to emulsify up to 40% oil alone at 4% and is compatible with all kind of oils, pigments, chemical and physical UV filters. It can also be added to formulas as a co-emulsifier or skin feel enhancer, thus providing formulators high flexibility to create very fluid to thick textures.

Not only is Heliosoft™ an efficient emulsifier, but its phospholipid components also give it strong active properties as well keeping the skin moisturised, repairing damaged skin by quickly restoring the skin barrier function and enhancing the bioavailability and penetration of active ingredients for improved efficacy.

Heliosoft™ is the ideal emulsifier to create emulsions especially dedicated to sensitive skin.

Recommended usage level: O/W emulsifier: 2 - 4%; Co-emulsifier: > 1%; Texture enhancer: > 1%

LYSOFIX™ Liquid

(INCI: Glycerin, Glycine Soja (Soybean) Seed Extract)

Natural micellar O/W emulsifier with a silky touch that can be used in cold or hot process. Powerful emulsifier without thickening that aids pigment dispersion with the potential to boost SPF. High compatibility in formula.

Provides hydration to the skin whilst improving the bioavailability of active ingredients. Enhances collagen and elastin production. A proven soothing micellar cleansing action with no irritation.

Recommended usage level: 3 - 5% (O/W emulsifier) 1 - 3% (co-emulsifier)

Insapolive

(INCI: Olea Europae (olive) Oil)

Insapolive is a 100% vegetable emollient, composed of Olive Oil unsaponifiable, rich in sterols and squalene. It participates actively in hydrating and soothing skin, whilst also acting as a co-emulsifier. Sterols and squalene are naturally present respectively in our alimentation (oils) and at the surface of our skin, and have an important action on the epidermis hydration. Ideal for sensitive, dry and mature skin.

Recommended usage level: 5-10%

Emulsifiers W/O

Evicare[®] PGPR

(INCI: Polyglyceryl-3 Polyricinoleate)

Evicare[®] PGPR is a very popular food grade W/O-emulsifier. This powerful, robust and 100% natural emulsifier provides reliable and stable emulsions with an extra caring effect. It works with all kinds of emollients and for people concerned about the sustainability of palm products:

Evicare[®] PGPR is based on Castor Oil. Evicare[®] PGPR provides a rich and caring skin feel making it ideal for use in protecting hand creams, night creams and water-proof formulations where a thicker consistency is desirable. It can be used on its own or combined with co-emulsifiers and waxes.

Recommended usage level: 2.0 - 3.0%

Gelling Agents

Ecogel™

(INCI: Lysolecithin (and) Sclerotium Gum (and) Xanthan Gum (and) Pullulan (and) Silica)

Ecogel™ is a patented optimised combination of natural origin ingredients derived from a green process: Lysophospholipids, Xanthan gum, Sclerotium gum and Pullulan. Its performances make it the first natural Phospholipid based gelling-emulsifying agent on the market. It allows the creation of natural gel-creams with an ultra-soft and light skin feel.

Ecogel™ offers an excellent silicone-like slip, ideal for skin, hair and lubricants. Electrolyte tolerant.

Recommended usage level: 0.3 - 2%

ESSACHEM® BW

(INCI: Behenyl Olivatate)

A natural based ester complex designed to offer thickening properties without compromising the spread of the formulation on the skin and hair. ESSACHEM® BW will thicken the oil phase of emulsions, lip applications and oil enriched cleansers to aid stabilisation whilst delivering an exceptional skin feel.

This natural complex will enhance the moisturisation properties and post rinse after feel from oil enriched body wash formulations without impacting the cleansing and foaming properties.

Recommended usage level: 2 - 8%

Elements® SG Clear

(INCI: Sclerotium Gum)

Elements® SG Clear is a natural gelling and stabilising agent. Ideal for use in natural gels (with the ability to suspend particles!) with soft textures (hair gels), emulsions (pigment suspensions in make-up), and gellified lotions.

Compatible with most cosmetic ingredients, it forms a network around oily particles, to ensure emulsions remain stable over time.

With its unique texture and exceptional stabilising properties, Elements® SG Clear brings a number of benefits to cosmetic products such as, stability of emulsions and suspensions, natural alternative to carbomers, soft and supple texture and moisturising properties.

Recommended usage level: <1% vaporisable suspension; 1.0 - 2.0% thickening an emulsion; 1.0 - 2.0% gels; 2.0 - 3.0% extreme or delicate conditions.

Evicare® aquatex 14

(INCI: Xanthan Gum)

Evicare® aquatex 14 is a Cosmos certified, non-GMO, transparent and vegan gelling agent. Electrolyte tolerant it is compatible with up to 40% alcohol.

Incredibly fast solubility and excellent transparency due to its granulated form.

Evicare® aquatex 14 offers a higher viscosity yield compared to Evicare® aquatex 80.

Recommended usage level: 0.1 – 1.0 %

Evicare[®] aquatex 80

(INCI: Xanthan Gum)

Evicare[®] aquatex 80 is a Cosmos certified, non-GMO, transparent and vegan gelling agent. Electrolyte tolerant it is compatible with up to 40% alcohol.

Fast solubility and excellent transparency. Highly compatible with surfactants and significantly reduced stringiness. Evicare[®] aquatex 14 offers a higher viscosity yield compared to Evicare[®] aquatex 80.

Recommended usage level: 0.1 – 1.0%

Heliogel[™]

(INCI: Sodium Acrylates Copolymer (and) Hydrogenated Polyisobutene (and) Phospholipids (and) Polyglyceryl-10 Stearate (and) Helianthus Annuus (Sunflower) Seed Oil)

Heliogel[™] is a patented gelling ingredient with emulsifying properties conferred by the presence of Sunflower Phospholipids. It thickens within a wide pH range and emulsifies all types of oil phases. Gel-creams can be formulated with an innovative, non-tacky and non-greasy skin feel.

Heliogel[™] is the solution to combining performance and skin sensation. Ideal as a viscosity adjuster, stabiliser and emulsifier for gel cream formulations.

Recommended usage level: 0.2 - 3%

Evicare[®] lipotex

(INCI: Hydrogenated Vegetable Oil)

Evicare[®] lipotex is a 100% natural and non-palm derived oil thickener.

It can increase the viscosity of liquid oils and convert them in soft fluid paste or even totally solid textures. It works with most vegetable or ester oils and makes application of oil phases such as massage oils neat and clean. Solid butters easily produced with Evicare[®] lipotex softly melt on the skin with our body temperature.

It is palm oil free and derived from rapeseed. Evicare[®] lipotex melts in oils at a temperature of approximately 60-70°C. Mix it thoroughly for a homogeneous distribution and let it cool down to yield a pasty to solid oil phase. The viscosity achieved depends on the concentration.

Recommended usage level: 5 - 15%

Lecigel[™]

(INCI: Sodium Acrylates Copolymer (and) Lecithin)

Lecigel[™] is a gelling agent with emulsifying and cooling properties (a safe alternative to Menthol and Alcohol) that triggers positive emotions upon application.

It allows the increase in the stability of formulas. Suitable for both cold and hot processes, it also helps to adjust the viscosity at the end of the formulation process.

Easy to use and stable to pH 9, it is compatible with most emulsifiers and is stable over a wide range of pH. Especially adapted for the formulation of gel-creams, it provides the typical 'Phospholipid touch' with a soft, non-greasy skin feel.

Recommended usage level: 0.1-2%

Peruvian Tara Seed

(INCI: Caesalpinia Spinosa Gum)

Tara Gum is a 100% natural gelling agent obtained by mechanical process from the Tara Tree Seed native to the Peruvian Andes. This bio-nutrient has been used by the Peruvian Incas for the past millennia to treat irritated skin as well as many other diverse uses.

Not only does it help improve skin condition it also provides moisturisation due to it containing various polysaccharide groups. In formulations, Tara gum can be used to form stable gels, as a viscosity controlling agent, to create smooth non-sticky, non-tacky and non-stringy gels as well as providing stability to emulsions. Stable over a wide pH range and 100% natural.

Recommended usage level: 0.5 - 1.0%

Siligel™

(INCI: Xanthan Gum, Lecithin, Sclerotium Gum, Pullulan)

Patented and optimised combination of phospholipids and polysaccharides, Siligel™ is a smart ingredient that revolutionises the use of gums. Easy to use, Siligel™ does not require any pre-dispersion even when used in a cold process as opposed to gums. With Siligel™, dispersion problems which generate lumps are things of the PAST!

Particularly resistant to a high amount of electrolytes, Siligel™ is the natural solution to easily create sturdy formulations even in extreme conditions with no compromise between efficiency and aesthetics!

In hair care Siligel™ has better repair and smoothing effect on damaged hair than silicone and improves the conditioning effect of formula on wet hair.

Recommended usage level: 0.1 - 2

Contact Us

Interested?

Then contact the Infinity team
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