

HALLSTAR 

SKIN CARE

ADVANCED FORMULATED SOLUTIONS

Hallstar offers decades of skin care expertise and unique formulated solutions. We work collaboratively with companies around the world to enhance next generation skin care products.

The skin care market is in a constant state of change, driven by product trends, a shifting regulatory landscape, and highly informed consumers whose preferences vary by region. Add to that the sheer variety of skin types and needs, and it's clear that skin care companies must continually improve and innovate their product offerings.

Custom formulations to meet changing customer needs

Hallstar is well known for its deep competency in photostability, ester chemistry, emulsifiers and functional naturals, and for working closely

with customers to solve problems. Our broad portfolio includes hundreds of formulations, but we also offer customers the option to create custom, on-trend formulated solutions. Our global laboratories have the capability to develop unique formulations that enhance the performance of current products or to create brand new ones. We also offer on-site *in vitro* testing and expert regulatory, technical and operational support to successfully bring new product solutions to market.

LET'S WORK WONDERS®

LIQUID CRYSTAL EMULSIFIERS

Hallstar's liquid crystal emulsifiers create a multilayer liquid crystal network that provides better and longer lasting hydration to skin than conventional emulsifiers. Our liquid crystal emulsifying systems mimic the physical structure of the skin and are based on olive oil chemistry, which is very similar to the hydrolipidic layer of the skin. These ingredients are biomimetic by composition and structure and can therefore create highly skin compatible, pleasant skin care formulations.



Olivem® 1000 (Cetearyl Olivatate, Sorbitan Olivatate)

The industry's first PEG-free self-emulsifying biomimetic ingredient that supports a wide range of functions, including anti-aging, anti-redness, luminescence, hydration and maximizing the sun protection factor (SPF).

This botanically derived, functional natural product is a complex combination of fatty acids, chemically similar to the lipidic composition of the skin. As a biomimetic restructuring agent, Olivem® 1000 restores and maintains the integrity of the skin while providing an emulsifying base. COSMOS approved.

Olivem® LV Flex (PEG-8 Stearate, Glyceryl Stearate, Cetearyl Alcohol, Sorbitan Oleate)

This very versatile O/W primary emulsifier is specifically designed for light, hyperfluid and sprayable emulsions while ensuring a pleasant skin feel. Olivem® LV Flex can also emulsify a wide range of oils and shows good compatibility with various rheology modifiers.

Olivem® VS Feel (Cetearyl Alcohol, Cetyl Palmitate, Sorbitan Palmitate, Sorbitan Oleate)

This O/W emulsifier is engineered to increase viscosity and stability while imparting pleasant sensorial benefits to formulations. Olivem® VS Feel greatly reduces the "soaping effect" of emulsions, providing a soft, non-sticky after feel. COSMOS approved.

FUNCTIONAL NATURAL EMULSIFIERS

We offer a range of functional natural emulsifying systems, derived from olive oil chemistry, which combine ease of use and versatility with the ability to impart pleasant sensorial characteristics to final skin care formulations.



Olivem® 900 (Sorbitan Olivatate)

This PEG-free W/O and W/S emulsifying agent can improve dispersion of pigments and inorganic filters. It can also play the role of a structuring agent in O/W and anhydrous formulations. COSMOS approved.

Olivem® 800 (Ceteareth-6 Olivatate)

As a skin compatible, versatile O/W emulsifier and a biocompatible ingredient, Olivem® 800 provides great

spreadability, fast absorption and pleasant skin feel to formulations. It allows formulators to work with a wide range of excipients, different polarity emollients, rheological modifiers and viscosity builders.

Olivem® 700 (PEG-4 Olivatate)

This stabilizing and structuring agent enriches the texture and viscosity of formulations, and also works as a secondary emulsifier, improving the stability of O/W emulsions.

BIOCHEMICA® NATURAL BUTTERS AND NATURAL EXOTIC OILS

Obtained through a patented cold extraction process, Hallstar's Biochemica® natural butters and natural exotic oils maintain the original properties of the raw materials from which they are derived. These products have an excellent influence on the structure of emulsions in the oil phase and a range of functional properties, including moisturizing, anti-aging, protective, anti-inflammatory, soothing, calming and more.

Biochemica® Natural and Specialty Butters

- Aloe Butter
- Avocado Butter
- Blueberry Butter
- Cocoa Butter
- Coffee Butter
- Cupuaçu Butter
- Hemp Seed Butter
- Kokum Butter
- Mango Butter
- Matcha Green Tea Butter
- Murumuru Butter
- Olive Butter
- Shea Butter
- Tangerine Butter

Biochemica® Natural Exotic Oils

- Argan Oil
- Babassu Oil
- Borage Oil
- BioVera Oil
- Coffee Oil
- Emu Oil
- Evening Primrose Oil
- Hemp Seed Oil
- Marula Oil
- Neem Oil
- Rose Hip Seed Oil



FUNCTIONAL NATURAL STABILIZING AND STRUCTURING AGENTS

Hallstar's stabilizing and structuring agents are derived from natural olive oil chemistry. They appear as flaked wax and have chemical structures that satisfy diverse formulating needs.

Oliwax® (Hydrogenated Olive Oil, Olea Europaea [Olive] Fruit Oil, Olea Europaea [Olive] Oil Unsaponifiables)

A stabilizing agent derived from olive oil, Oliwax® is a perfect gellifying agent for the oil phase in O/W and W/O emulsions. Its composition makes it ideal for anhydrous systems, and Oliwax® creates a network with the components of the oil phase protecting them from oxidation.

Oliwax® LC (Cetyl Palmitate, Sorbitan Palmitate, Sorbitan Olivates)

This complex ingredient is a natural derived mix of esters with co-emulsifying and stabilizing properties. Thanks to its composition, it can also be used in the water phase. Oliwax® LC works as a liquid crystals promoter, providing a unique after-feel due to the high water content of the liquid crystals structures.



LIPOPHILIC AND HYDROPHILIC FUNCTIONAL NATURAL EMOLLIENTS

Hallstar provides a range of highly compatible lipophilic and hydrophilic emollients, botanically derived from natural sources such as fruits, nuts and seeds. These emollients are the result of the esterification of natural fatty acids. Our products can obtain different sensorial and dermatological attributes to fit the specific needs of each skin type.



Florasolvs® Sunflower-10 (PEG-10 Sunflower Glycerides)

This ingredient has an exceptionally high oleic content, derived from refined sunflower oil, to provide significant emolliency. It acts as a conditioning agent, refatting agent and secondary emulsifier.

Florasolvs® Macadamia-16 (PEG-16 Macadamia Glycerides)

A water-soluble ingredient with relatively high oleic content derived from macadamia nut oil, this ingredient offers exceptionally high clarity and acts as a conditioning agent, refatting agent and solubilizer with good spreadability and a non-oily skin feel. Florasolvs® Macadamia-16 also supports skin cleansers with high perfume content.

Florasolvs® Jojoba-80 (Jojoba Wax PEG-80 Esters)

Florasolvs® Jojoba-120 (Jojoba Wax PEG-120 Esters)

Florasolvs® Jojoba-150 (Jojoba Oil PEG-150 Esters)

These water-soluble ingredients are derived from refined jojoba seed oil. All act as excellent film formers/fixatives and cleansers, offer high clarity and function as secondary emulsifiers.

Olivem® 300 (Olive Oil PEG-7 Esters)

This water-soluble functional lipid is also an ester with strong emollient and lubricant properties, offering distinctive skin smoothness and long-term moisturizing effects. Olivem® 300 is an excellent solubilizing aid for essential oils and perfumes.

DERMOLLIENTS

Hallstar's botanically derived dermolllients have a fatty acid content that chemically mimics that of the hydrolipidic film of the skin, with exceptional skin compatibility. Our dermolllients deliver various effects, which may include an elegant silicone-like or silky touch while improving skin's hydration, elasticity and barrier functions.

Sensolene® (Ethylhexyl Oliviate)

This fast-absorbed dermolllient gives a silicone-like texture while enhancing the barrier function of the skin. Sensolene® provides rapid and sustained moisturization, and slippery and natural elasticity restoration.

Sensolene® Care DD (Lauryl Oliviate)

Designed to be an effective natural solution for sensitive skin, Sensolene® Care DD creates a protective layer on the skin, reducing the TEWL caused by external aggression and mechanical stress. This ingredient improves the natural barrier against irritating factors for a calming and soothing effect that has been proven by clinical tests.

FUNCTIONAL NATURAL ACTIVE INGREDIENTS

Hallstar's active ingredients are all naturally derived products, many of which are COSMOS approved. These ingredients enable a broad range of functions that guard against skin aging, irritation and inflammation, while promoting moisturization, elasticity and skin lightening.



BioVera 10X Concentrate (Aloe Barbadensis Leaf Juice)

Decolorized liquid concentrate derived from organically grown plants.

BioVera 200X Aloe Concentrate Organic (Aloe Barbadensis Leaf Juice)

Freeze-dried crystalline powder derived from organically grown plants.

Eurol® BT (Olea Europaea [Olive] Leaf Extract, Water)

This multifunctional active ingredient derived from olive plant leaves is a natural blend of diphenolic compounds. Eurol® BT can carry out

anti-aging, anti-irritating, anti-inflammatory, moisturizing, skin elasticizing, anti-microbial and anti-acne actions. Natural certification. COSMOS approved.

Eurol® WHT (Glycerin, Water, Olea Europaea [Olive] Leaf Extract, Arctostaphylos Uva Ursi Leaf Extract)

This 100 percent natural ingredient combines the antioxidant and anti-tyrosinase phytocomplex of olive tree leaf and bearberry leaf extracts to create a skin whitening natural active. The beneficial activities of the olive tree leaf extract can help avoid undesired skin irritation, a collateral effect of common skin lightening ingredients. COSMOS approved.

PHOTOSTABILIZING SKIN CARE ACTIVES

As more skin care products contain actives and UV filters that are not photostable, there is a growing need to ensure that these ingredients are protected against the harmful effects of UV radiation. Our photostability products rapidly return photolabile skin care and sun care ingredients to their ground states, preventing degradation in the presence of UV light and allowing them to work effectively.

SolaStay® S₁ (Ethylhexyl Methoxycrylene)

The most powerful UV stabilizing technology on the market today, SolaStay® S₁ preserves the effectiveness of key skin care ingredients, such as retinol, retinyl palmitate, ubiquinone (Coenzyme Q10), resveratrol and cholecalciferol, which are known to be highly unstable in the presence of UV light. Rather than absorbing sunlight, SolaStay® S₁ interacts with both the singlet and triplet states of active ingredients and returns them to ground state.

For formulators looking to add SPF and broad spectrum sun protection claims to their traditional skin care product ranges, SolaStay® S₁, originally developed to help maximize the efficacy of UV filters such as avobenzone and octinoxate, provides patented photostability technology that allows formulators to depend less on UV filters and to gain more formulation flexibility in developing unique textures and aesthetics.

SOLUBILIZERS

Today's skin care products often include ingredients such as UV filters and pigments. These ingredient combinations can negatively affect the texture of the finished product. Our solubilizer provides superior solvency coupled with excellent pigment wetting and dispersing properties.

HallBrite® BHB (Butyloctyl Salicylate)

HallBrite® BHB is a highly effective solubilizer for oil-soluble UV filters, given its moderate polarity and low viscosity. It is an excellent wetter, carrier and dispersant for cosmetic colorants and micronized metallic oxides and improves formulation aesthetics.

An odorless, colorless and tasteless liquid, HallBrite® BHB combines lower potential irritation, excellent spreadability and added substantivity in the presence of water. It is compatible with most lipophilic cosmetic additives and solubilizes many commonly used active ingredients.

OTHER SPECIALTY INGREDIENTS

Our wide range of specialty products helps our customers create formulated solutions that address a multitude of challenges: diverse skin types and needs, market trends and regional consumer preferences.

HallStar® EGDS (Glycol Distearate)

Opacifying and pearling agent

HallStar® EGMS (Glycol Stearate)

Light ester that reduces the tack of heavy emollients

HallStar® GDS (Glyceryl Distearate)

All vegetal opacifying and pearling agent

HallStar® Octyl Isononanoate (Ethylhexyl Isononanoate)

Light ester that reduces the tack of heavy emollients

HallStar® GMO (Glyceryl Oleate)

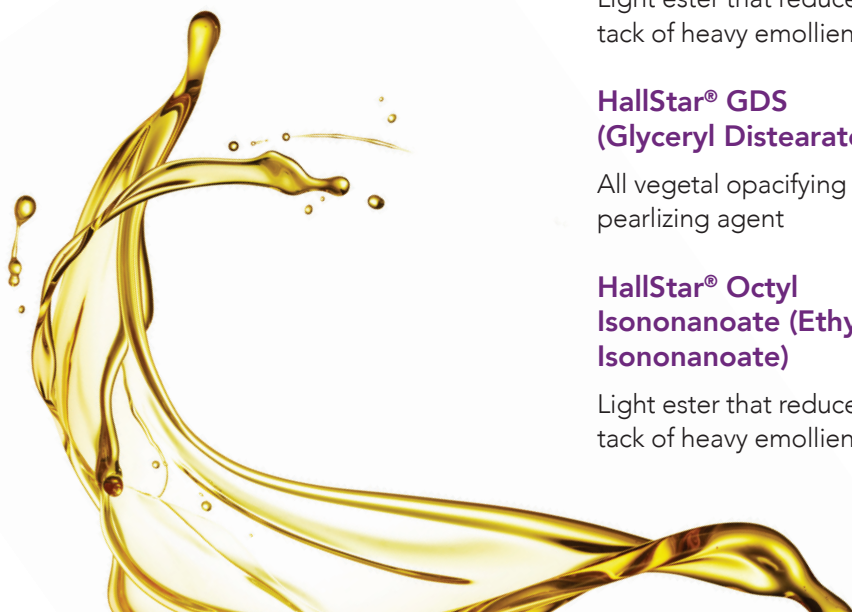
All natural cold processible low HLB emulsifying agent

HallStar® SSL (Sodium Stearoyl Lactylate)

Mid HLB O/W emulsifier with humectant properties

HallStar® P3O (Polyglyceryl-3 Oleate)

Cold processible low HLB W/O emulsifier



Learn more about Hallstar's areas of expertise and formulated solutions or use our unique online tool to create your own custom formula at www.hallstar.com.



Corporate and Executive Offices:
120 South Riverside Plaza, Suite 1620
Chicago, IL 60606 USA

For customer service and general inquiries:
1-877-427-4255

International:
+1-312-385-4494

www.hallstar.com

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