

# Trends in Sun Care

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**HALLSTAR**   
B E A U T Y



# EWG Green Sunscreen

Formula Number: SK21033007-5Y

This fluid sunscreen has an ultra light and watery sensoriality thanks to Olivem® 2020G. All ingredients are 3-O-Free, reef-friendly and EWG Green verified. By making use of Hallstar's photoprotection technology, the formulation includes only 9% organic UV filters. It is ideally-designed for sensitive skin thanks to the addition of EuroI® BT and MYRTLE-OLIVE Oléoactif®. *In vivo* SPF 72, PFA++++.

**HallBrite BHB®** dilutes UV packages' high density for lighter skin feel. It significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

**Spectrasolv® DMDA** has vastly superior solvency for the solid UV filters. It is much more polar. The increased polarity may have a beneficial impact on the performance of many broad-spectrum sunscreen products.

**AvoBrite®** provides very rapid and efficient excited state quenching of avobenzone, protecting it from photodegradation and improving sunscreen performance. As a polymer, it may enhance the water resistance of products in which it is incorporated.

**EuroI® WHT** has combined the anti-oxidant properties of olive tree leaves with the strong skin brightening properties of bearberry extract,, bringing them together in perfect harmony.

**Olivem® 2020G** is a naturally-derived cold-process emulsifier. It is a multifunctional biomimetic ingredient combining excellent emulsification performance and natural dermollience.

**MYRTLE-OLIVE Oléoactif®** acts on photo-induced oxidative stress and scavenges free radicals. It is 100% natural and organic, derived from myrtle and olive leaves extracted in deodorized organic olive oil through the patented Oléo-éco-extraction process.

Phase	INCI Name	Trade Name	% Wt	Function
A	Ethylhexyl Triazone		1.50	UV Filter/Sunscreen Agent
	Butyl Methoxydibenzoylmethane		3.00	UV Filter/Sunscreen Agent
	Bis-ethylhexyloxyphenol methoxyphenyl triazine		1.50	UV Filter/Sunscreen Agent
	Butyloctyl Salicylate	HallBrite BHB®	10.00	Sunscreen Solvent/ Emollient
	Dimethyl Capramide	Spectrasolv® DMDA	1.00	Sunscreen Solvent
	Acrylates Copolymer	AvoBrite®	2.50	Photostabilizer
	Ethylhexyl Hydroxyl Stearate		4.00	Emollient
	Olea Europaea (Olive) Fruit Oil (and) Myrtus Communis Leaf Extract (and) Olea Europaea (Olive) Leaf Extract	MYRTLE-OLIVE Oléoactif®	0.50	Active Ingredient
	Bisabolol		0.20	Active Ingredient
B	Ethylhexyl Oliviate, Sodium Acrylates Copolymer, Polyglyceryl-4 Oleate	Olivem® 2020G	2.00	Multifunctional Cold Process Emulsifier
	Potassium Cetyl Phosphate		2.00	Emulsifier
	Hydroxyacetophenone, 1,2-Hexanediol		0.90	Preservative
	1,3-Butylene Glycol		5.00	Humectant
C	D.I. Water		49.40	Volatile Carrier
	Methylene Bis-benzotrazolyl Tetramethylbutylphenol		6.00	UV Filter/Sunscreen Agent
D	D.I water		10.00	Volatile Carrier
	Glycerin, Water, Olea Europaea (Olive) Leaf Extract, Arctostaphylos Uva Ursi Leaf Extract	EuroI® WHT	0.50	Multifunctional Active Ingredient

## Preparative procedure

Mix phase A and heat to 80°C. Mix phase B well and heat to 80°C. Add phase B into phase A, homogenize for 3 minutes. Mix phase C well, add phase C into phase AB, replenish water loss, homogenize for 3 minutes. Cool to room temperature, add D phase and stir evenly.

## Product characteristics (25°C)

- Appearance: milk lotion

# Green ZnO Sunscreen

Formula Number: SZZN27

The inorganic sunscreen offers high protection from sun damage. Olivem® 2090G is used as the sole emulsifier and, combined with Sensolene® Light ET's properties, imparts an extremely light touch – ideal for sensitive skin. All ingredients are EWG Green, 3O-free and reef-friendly. SolaPure™ ZnO C is the formulation's only mineral UV filter. *In vivo* SPF 48.7, PFA++++.

**HallBrite® BHB** dilutes UV packages' high density for lighter skin feel. It significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

**SolaPure™ ZnO C** is a mineral UV filter coated with triethoxyoctylsilane. Its particle size is non-nano size. Compared with other inorganic formulation, the formulation with SolaPure™ ZnO C is less whitening.

**AvoBrite®** protects avobenzone from degrading upon sun exposure and releasing damaging free radicals.. As a polymer, it may also enhance water resistance.

**Olivem® 2090G** contributes to creating a stable, easily spreadable formulation. The high-performing W/O cold-process emulsifier imparts high sensoriality, biomimetism and functional benefits

**Sensolene® Light ET** provides a light touch with good antioxidant benefits. It introduces for the first time the concept of an active emollient combining superior emolliency with antioxidant benefits, thanks to unique, natural Oléo-éco extraction patented process.

**Hallstar® Octyl Isononanoate** is used as an emollient in skin care or sunscreen. Its branched nature imparts a low viscosity and low freeze point, making it useful for reducing the tackiness of heavier oils, enhancing finished product skin-feel.

Phase	INCI Name	Trade Name	% Wt	Function
A	Zinc Oxide/Triethoxyoctylsilane	SolaPure™ ZnO C	25.00	UV Filter/Sunscreen Agent
	Butyloctyl Salicylate	HallBrite® BHB	10.00	Sunscreen Solvent/Emollient
	Ethylhexyl Isononanoate	Hallstar® Octyl Isononanoate	13.00	Emollient
	Polyglyceryl-4 Oleate (and) Polyglyceryl-3 Polyricinoleate	Olivem® 2090 G	0.50	Dispersing Agent
B	Acrylates Copolymer	AvoBrite®	3.00	Photostabilizer
	Dextrin Palmitate		1.50	Thickener
	Ethyl Olivatate, Olea Europaea (Olive) Leaf Extract	Sensolene® Light ET	3.00	Multifunctional Emollient
	Polyglyceryl-4 Oleate (and) Polyglyceryl-3 Polyricinoleate	Olivem® 2090 G	2.50	Multifunctional Cold Process Emulsifier
C	Disodium EDTA		0.05	Chelating Agent
	Sodium Chloride		1.00	Stabilizing Agent
	1,3-Butylene Glycol		1.00	Humectant
	Hydroxyacetophenone, 1,2-Hexanediol		1.50	Preservative
	D.I. Water		32.95	Volatile Carrier
D	Unidecane (and) Tridecane		5.00	Emollient

## Preparative procedure

Homogenize phase A for 20mins at 10000rpm. Add phase B into phase A. Mix phase AB and heat to 80°C. Mix phase C well and heat to 80°C. Add phase C into phase AB slowly with gentle. Homogenize the bulk stirring, stir for 5 minutes with 1500rpm. Cool to room temperature, add D phase and stir evenly 3 minutes.

## Product characteristics (25°C)

- Appearance: shiny milk cream

# ZnO Only Sunscreen

Formula Number: SK21030407-7Y

This inorganic sunscreen has excellent spreadability on the skin. Its sole mineral UV filter is SolaPure™ ZnO which, when compared to other inorganic formulation, is less whitening. It is ideally-designed for sensitive skin thanks to the addition of EuroI® BT and MYRTLE-OLIVE Oléoactif®. *In vivo* SPF 44, PFA+++.

**HallBrite BHB®** dilutes UV packages' high density for lighter skin feel. It significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

**SolaPure™ ZnO C** is a mineral UV filter coated with triethoxyoctylsilane. Its particle size is non-nano size. Compared with other inorganic formulations, those with SolaPure™ ZnO C are less whitening.

**AvoBrite®** provides very rapid and efficient excited state quenching of avobenzone, protecting it from photodegradation and improving sunscreen performance. As a polymer, it may enhance the water resistance of products in which it is incorporated.

**EuroI® WHT** has combined the antioxidant properties of olive leaves with the strong skin brightening properties of bearberry extract, bringing them together in perfect harmony.

**MYRTLE-OLIVE Oléoactif®** acts on photo-induced oxidative stress and scavenges free radicals. It is 100% natural and organic, derived from myrtle and olive leaves extracted in deodorized organic olive oil through the patented Oléo-éco-extraction process.

Phase	INCI Name	Trade Name	% Wt	Function
A	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone		2.00	Emulsifier
	Cetyl PEG/PPPG-10/1 Dimethicone		1.00	Emulsifier
	Diphenylsiloxy Phenyl Trimethicone		2.00	Emollient
	Acrylates Copolymer	AvoBrite®	6.00	Photostabilizer
	Butyloctyl Salicylate	HallBrite BHB®	10.00	Sunscreen Solvent/Emollient
	Olea Europaea (Olive) Fruit Oil (and) Myrtus Communis Leaf Extract (and) Olea Europaea (Olive) Leaf Extract	MYRTLE-OLIVE Oléoactif®	0.50	Active Ingredient
	Bisabolol		0.20	Active Ingredient
	Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone		2.05	Emulsifier
	Dimethicone		16.40	Emollient
	Zinc Oxide(and) Triethoxycaprylsilane	SolaPure™ ZnO C	22.55	UV Filter/Sunscreen Agent
B	EDTA-2Na		0.05	Chelating Agent
	Sodium Chloride		1.00	Stabilizing Agent
	1,3-Butylene Glycol		8.00	Humectant
	Hydroxyacetophenone, 1,2-Hexanediol		0.90	Preservative
	Glycerin, Water, Olea Europaea (Olive) Leaf Extract, Arctostaphylos Uva Ursi Leaf Extract	EuroI® WHT	0.50	Multifunctional Active Ingredient
	D.I Water		26.85	Volatile Carrier

## Preparative procedure

Homogenize phase A for 5mins with 5000rpm. Mix phase B well. Add phase B into phase A slowly with gentle stirring, homogenize for 3 minutes with 3000rpm.

## Product characteristics (25oC)

- Appearance: shiny milk cream

# Invisible Feather Sunscreen

Formula Number: SK21120908-7Y

This organic sunscreen has an ultra light and smooth sensoriality. 100% oil-based and waterless, the formulation demonstrates strong water resistance performance. Hallstar photostability technology enables the increase of *in vivo* SPF performance while reducing UV filter percentage. *In vivo* SPF 53, PFA++++.

**HallBrite BHB®** dilutes UV packages' high density for lighter skin feel. It significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

**AvoBrite®** provides very rapid and efficient excited state quenching of avobenzene, protecting it from photodegradation and improving sunscreen performance. As a polymer, it may enhance the water resistance of products in which it is incorporated.

**SolaFresh™** provides good solvency and compatibility in UV filter package to improve sun protection performances. It is an important to be used alone or with other Hallstar photostabilizers to achieve desirable SPF in 3-O-Free formulations in compliance with ingredientHawaii.

**DIAM Oléoactif®** adds anti-inflammatory benefits. It effectively combines the active ingredients of cork oak and coconut to create a unique highly protective complex for sensitive and reactive skin.

Phase	INCI Name	Trade Name	% Wt	Function
A	Butyl Methoxydibenzoylmethane		3.00	UV Filter/Sunscreen Agent
	Ethylhexyl Methoxycinnamate		6.00	UV Filter/Sunscreen Agent
	Ethylhexyl Salicylate		5.00	UV Filter/Sunscreen Agent
	Bis-ethylhexyloxyphenol Methoxyphenyl Triazine		3.00	UV Filter/Sunscreen Agent
	Diethylhexyl 2,6-naphthalate	SolaFresh™	4.00	Multifunctional Emollient
	Dibutyl Ethylhexanoyl Glutamide		0.40	Skin Conditioner
B	Dibutyl Lauroyl Glutamide		0.40	Skin Conditioner
	Polymethylsilsesquioxane		5.00	Skin Conditioner/Film Former
	Dimethicone (And) Dimethicone/Vinyl Dimethicone Crosspolymer		56.85	Skin Conditioner/Film Former
	Butyloctyl Salicylate	HallBrite® BHB	10.00	Sunscreen Solvent/ Emollient
	Squalane (And) Lauryl Dimethicone/Polyglycerin-3 Crosspolymer		3.50	Emulsifier
	Acrylates Copolymer	AvoBrite®	1.00	Photostabilizer
	Bisabolol		0.15	Active Ingredient
	Cocos Nucifera (Coconut) Oil (And) Quercus Suber Bark Extract (And) Oak Root Extract	DIAM Oléoactif®	0.50	Active Ingredient
Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone		1.20	Emulsifier	

## Preparative procedure

Mix phase A well and heat to dissolve. Add phase B into phase, homogenize for 3 minutes with 3000rpm.

## Product characteristics (25°C)

- Appearance: matte cream

# Mineral Soft Skin Sunscreen

Formula Number: SK22032306-2Y

This inorganic, waterless sunscreen has an elegant and velvety skin-feel. It performs perfectly with makeup. Compared with other inorganic formulations, Mineral Soft Skin Sunscreen with SolaPure™ ZnO C is less whitening. Thanks to active ingredient DIAM Oléoactif®, it is ideal for sensitive skin. *In vitro* SPF 53, PFA++++.

**HallBrite BHB®** dilutes UV packages' high density for lighter skin feel. It significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

**SolaPure™ ZnO C** is a mineral UV filter coated with triethoxyloctylsilane. Its particle size is non-nano size. Compared with other inorganic formulation, those with SolaPure™ ZnO C is less whitening.

**DIAM Oléoactif®** adds anti-inflammatory properties. It effectively combines the active ingredients of cork oak and coconut to create a unique, highly protective complex for sensitive and reactive skin.

Phase	INCI Name	Trade Name	% Wt	Function
A	Cyclopentasiloxane (and) Titanium Dioxide (and) Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone (and) Aluminum Hydroxide (and) Stearic Acid		25.00	UV Filter/ Sunscreen Agent
	Zinc Oxide (and) Triethoxycaprylylsilane	SolaPure™ ZnO C	21.00	UV Filter/Sunscreen Agent
	Dimethicone		14.30	Emollient
	Butyloctyl Salicylate	HallBrite® BHB	5.00	Sunscreen Solvent/ Emollient
	Dimethicone (And) Dimethicone/Vinyl Dimethicone Crosspolymer		23.00	Skin Conditioner/Film Former
	Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer		6.00	Film Former
	Cyclopentasiloxane (and) PEG/PEG-18/18 Dimethicone		4.00	Film Former
	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone		1.00	Emulsifier
	Bisabolol		0.20	Active Ingredient
	Cocos Nucifera (Coconut) Oil (And) Quercus Suber Bark Extract (And) Oak Root Extract	DIAM Oléoactif®	0.50	Active Ingredient

#### Preparative procedure

Mix phase A well and heat to dissolve. Homogenize for 3 minutes with 3000rpm.

#### Product characteristics (25°C)

- Appearance: cream



# Stress-free Daily Shaking Milk

Formula Number: SK21111709-6Y

With its combination of water-phase and oil-phase UV filters, this daily sun care has light, smooth sensory. All of its UV filters are EWG Green verified. It is ideally designed for sensitive skin thanks to the addition of Euro!® BT and MYRTLE-OLIVE Oléoactif®. HallBrite® BHB and SolaFresh™ significantly increase the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms. *In vivo* SPF 64, PFA+++.

**HallBrite BHB®** dilutes UV packages' high density, creating a lighter skin feel. It significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

**SolaPure™ ZnO C** is a mineral UV filter coated with triethoxyoctylsilane. Its particle size is non-nano size. Compared with other inorganic formulation, those with SolaPure™ ZnO C are less whitening.

**SolaFresh™** provides good solvency and compatibility in UV filter package to improve sun protection performances. It can be used alone or with other Hallstar photostabilizers to achieve desirable SPF in 3-O-Free formulations.

**Euro!® WHT** has combined the antioxidant properties of olive tree leaves with the strong skin brightening properties of bearberry extract, bringing them together in perfect harmony.

**MYRTLE-OLIVE Oléoactif®** acts on photo-induced oxidative stress and scavenges free radicals. It is 100% natural and organic, derived from myrtle and olive leaves extracted in deodorized organic olive oil through the patented Oléo-éco-extraction process.

Phase	INCI Name	Trade Name	%wt	Function
A	Lauryl PEG-9 Polydimethylsiloxyethyl Dimethicone		2.00	Emulsifier
	Sorbitan Isostearate		0.50	Emulsifier
	Trimethylsiloxyoctylsilane/ Cyclopentasiloxane		2.00	Emollient
	Cyclopentasiloxane		20.00	Emollient
	Zinc Oxide(and) Triethoxycaprylsilane	SolaPure™ ZnO C	12.00	UV Filter/ Sunscreen Agent
	Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone		1.00	Emulsifier
	Cyclopentasiloxane/Titanium Dioxide/Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone/Aluminum Hydroxide/Stearic		13.00	UV Filter/ Sunscreen Agent
	Butyloctyl Salicylate	HallBrite® BHB	10.00	Sunscreen Solvent/Emollient
	Diethylhexyl 2,6-naphthalate	Solafresh®	4.00	Multifunctional Emollient
	Diethylamino Hydroxybenzoyl Hexyl Benzoate		2.00	UV Filter/Sunscreen Agent
	Olea Europaea (Olive) Fruit Oil (And) Myrtus Communis Leaf Extract (And) Olea Europaea (Olive) Leaf Extract	MYRTLE-OLIVE Oléoactif®	0.50	Active Ingredient
Bisabolol		0.20	Active Ingredient	
Polysilicone-15		1.50	UV Filter/Sunscreen Agent	
Vinyl Dimethicone/Methicone Silsesquioxane Crosspolymer		1.50	Film Former	
B	Glycerin		5.00	Humectant
	Sodium Chloride		0.50	Stabilizing Agent
	Hydroxyacetophenone, 1,2-Hexanediol		0.90	Preservative
	D.I Water		13.90	Volatile Carrier
C	Methylene Bis-benzotriazolyl Tetramethylbutylphenol		3.00	UV Filter/ Sunscreen Agent
	D.I Water		6.00	Volatile Carrier
D	Glycerin, Water, Olea Europaea (Olive) Leaf Extract, Arctostaphylos Uva Ursi Leaf Extract	Euro!® WHT	0.50	Multifunctional Active Ingredient

#### Preparative procedure

Mix phase A except Solapure™ ZnO C well and heat to dissolve, add Solapure™ ZnO C into phase A and homogenize well. Mix phase B well and disperse phase C well. Add phase B into phase A slowly with gentle stirring, add phase C and D slowly, homogenize for 3 minutes.

#### Product characteristics (25°C)

- Appearance: shaking milk

# Super Protective Shaking Milk

Formula Number: SK21041407-1Y

This 3O-free, reef friendly sunscreen has as an elegant, velvety skin-feel offers natural protection thanks to EuroI® BT and MYRTLE-OLIVE Oléoactif®. Spectrasolv® DMDA contributes superior solvency for the UV filters. HallBrite® BHB and SolaFresh™ significantly increase the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms. *In vivo* SPF 52, PFA+++.

**HallBrite BHB®** dilutes UV packages' high density, creating a lighter skin feel. It significantly increases the *in vivo* SPF performance of sun protection products through the reduction of electron transfer and photoprotection mechanisms.

**Spectrasolv® DMDA** has greater polarity and vastly superior solvency compared to solid UV filters. The increased polarity may have a beneficial impact on the performance of many broad-spectrum sunscreen products.

**AvoBrite®** provides very rapid and efficient excited state quenching of avobenzene, protecting it from photodegradation and improving sunscreen performance. As a polymer, it may enhance the water resistance of products in which it is incorporated.

**SolaPure™ ZnO C** is a mineral UV filter coated with triethoxyoctylsilane. Its particle size is non-nano size. Compared with other inorganic formulation, the formulation with SolaPure™ ZnO C is less whitening.

**EuroI® WHT** combines the antioxidant properties of olive tree leaves with the strong skin brightening properties of bearberry extract, bringing them together in perfect harmony.

**MYRTLE-OLIVE Oléoactif®** acts on photo-induced oxidative stress and scavenges free radicals. It is 100% natural and organic, derived from myrtle and olive leaves extracted in deodorized organic olive oil through the patented Oléo-éco-extraction process.

## Preparative procedure

Mix phase A and heat to 80°C till all ingredients dissolved, cool down to room temperature. In phase B, neutralize Parsol HS with NaOH first, then add the other ingredients into the solution, mix phase B well. Add phase B into phase A slowly, homogenize for 3 minutes with 5000rpm.

## Product characteristics (25°C)

- Appearance:** shaking milk

Phase	INCI Name	Trade Name	%wt	Function
A	Dimethicone/PEG-10/15 Crosspolymer		3.00	Film Former
	PEG-9 Polydimethylsiloxethyl Dimethicone		0.60	Emulsifier
	Cetyl PEG/Ppg-10/1 Dimethicone		1.00	Emulsifier
	Trimethylsiloxysilicate/Cyclopentasiloxane		2.00	Emollient
	Cyclopentasiloxane		12.00	Emollient
	Butyloctyl Salicylate	HallBrite BHB®	10.00	Sunscreen Solvent/Emollient
	Acrylates Copolymer	AvoBrite®	4.00	Photostabilizer
	Dimethyl Capramide	Spectrasolv® DMDA	1.00	Sunscreen Solvent
	Diethylamino Hydroxybenzoyl Hexyl Benzoate		3.00	UV Filter/Sunscreen Agent
	Bis-ethylhexyloxyphenol Methoxyphenyl Triazine		1.00	UV Filter/Sunscreen Agent
	Ethylhexyl Triazone		1.50	UV Filter/Sunscreen Agent
	Zinc Oxide/Triethoxyoctylsilane	Solapure™ ZnO C	8.80	UV Filter/Sunscreen Agent
	Polyglycerin-3 poly dimethyl hydroxyethyl polydimethylsiloxane		0.80	Emulsifier
	Dimethicone		6.40	Emollient
	Diphenylsiloxy Phenyl Trimethicone		4.00	Emollient
	Olea Europaea (Olive) Fruit Oil (and) Myrtus Communis Leaf Extract (and) Olea Europaea (Olive) Leaf Extract	MYRTLE-OLIVE Oléoactif®	0.50	Active Ingredient
	Bisabolol		0.20	Active Ingredient
Vinyldimethicone/Methicone Silsesquioxane Crosspolymer		2.00	Thickener	
Polydimethylsiloxane		5.00	Emollient	
Ethylhexyl Hydroxyl Stearate		5.00	Emollient	
B	Glycerin		8.00	Humectant
	Sodium Hyaluronate		0.02	Active Ingredient
	Sodium Chloride		0.20	Stabilizing Agent
	Phenylbenzimidazole Sulfonic Acid		3.00	UV Filter/Sunscreen Agent
	Glycerin, Water, Olea Europaea (Olive) Leaf Extract, Arctostaphylos Uva Ursi Leaf Extract	EuroI® WHT	0.50	Multifunctional Active Ingredient
	Phenoxyethanol		0.50	Preservative
	D.I.Water		5.98	Volatile Carrier
	Alcohol		10.00	Volatile Carrier



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