



GREEN
LINE

INGREDIENTS

PRODUCT
CATALOG

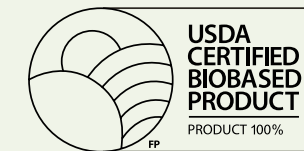
JULY 2023





Green Line™ has a range of ingredients to meet the ongoing performance and marketing needs of the natural customer - innovative active ingredients, high-performance emulsifiers, natural antioxidants, and multifunctional ingredients, along with our robust list of stock botanical extracts with industry best lead-times.

Our team is continuing to develop new ingredients that provide our customers with high performance and novel claims in a full range of cosmetic and personal care applications by harnessing the power of plants.





GREENWAX: EMULSIFIERS

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

GreenWax N™ MB (GLE-10088) Use Level 3.0-7.0% ●●●●

INCI: Cetearyl Alcohol, Polyglyceryl-3 Stearate, Glyceryl Caprylate

Description: Biobased, non-ionic, multipurpose, stand-alone O/W emulsifier. Produces a wide range of stable viscosities from fluid to balm-like. A greener choice over traditional ethoxylated emulsifiers. Approximate HLB 10-12.

GreenWax S™ MB (GLE-10087) Use Level 3.0-7.0% ●●●●

INCI: Glyceryl Stearate, Sodium Stearoyl Lactylate, Hydrolyzed Sunflower Seed Wax, Glyceryl Caprylate

Description: Prestige, biobased emulsifier ideal for treatment products where high performance, feel and texture are essential. Hydrolyzed Sunflower Seed offers increased stability and emulsifying power. A reliable choice in formulations with a high level of active ingredients. Approximate HLB 8-10.

GreenWax CC™ MB (GLE-10090) Use Level 3.0-7.0% ●●●●

INCI: Polyglyceryl-3 Stearate, Cetearyl Alcohol, PCA Glyceryl Oleate, Glyceryl Caprylate

Description: Biobased conditioning emulsifier for hair and skin care applications. Can be used as a quat-free alternative in rinse off conditioners with similar performance to Cetrimonium Chloride. In skin care applications, it provides increased barrier protection. Especially suited for sensitive skin care products and those targeted for eczema, dry, chapped, or inflamed skin. Approximate HLB 9-11.

GreenWax GL™ MB (GLE-10091) Use Level 0.5-10.0% ●●●●

INCI: Cetearyl Alcohol, Glyceryl Laurate

Description: Co-emulsifier and viscosity enhancer that offers reliable performance. An additive that can help boost preservation efficacy. Approximate HLB 3-5.

IMBUE: EMULSION CONCENTRATES

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

Imbue™ Product Line:

A novel emulsion concentrate with a high internal phase developed to create everything from sprayable systems to gel-cream textures with few additional ingredients. 100% biobased, simple cold processing can yield an entire product line including moisturizing cleansers, wipes, toners, serums, lotions, and creams. At 1-5%, Imbue™ helps stabilize emulsions in scale-up without the need for entire re-formulation.

Imbue™ SF MB (GLE-10099)

Use Level 0.5-50%

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INCI: Water, Carmathus Tinctorius (Safflower) Oil, Glycerin, Polyglyceryl-6-Stearate, Glyceryl Caprylate, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ TEC MB (GLE-10103)

Use Level 0.5-50%

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INCI: Water, Triethyl Citrate, Glycerin, Polyglyceryl-6-Stearate, Glyceryl Caprylate, Carmathus Tinctorius (Safflower) Oil, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ Shea MB (GLE-10101)

Use Level 0.5-50%

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INCI: Water, Butyrospermum Parkii (Shea) Butter Extract, Glycerin, Polyglyceryl-6-Stearate, Glyceryl Caprylate, Carmathus Tinctorius (Safflower) Oil, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ Coconut MB (GLE-10105)

Use Level 0.5-50%

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INCI: Water, Cocos Nucifera (Coconut) Oil, Glycerin, Polyglyceryl-6 Stearate, Glyceryl Caprylate, Carmathus Tinctorius (Safflower) Oil, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ JO MB (GLE-10102)

Use Level 0.5-50%

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INCI: Water, Simmondsia Chinensis (Jojoba) Seed Oil, Glycerin, Polyglyceryl-6 Stearate, Glyceryl Caprylate, Xanthan Gum, Carthamus Tinctorius (Safflower) Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract



GREENSENS: EMOLLIENTS & CONDITIONING

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

GreenSens™ P30 MB (GLE-10095) Use Level 1.0-5.0% ●●●●

INCI: PCA Glyceryl Oleate

Description: A plant-based functional ingredient designed to bring substantivity to hair and skin care formulations. Use in rinse-off or leave on applications. Viscosity building properties in surfactant systems.

GreenSens™ TEC Bio (GLE-10025) Use Level 1.0-100.0% ●●●●●

INCI: Triethyl Citrate

Description: A plant-based versatile deodorant active that provides additional solvency and emollience to your formulations. Ideal choice for deodorants due to its ability to inhibit esterase activity in bacteria, which can result in malodor.

GreenSens™ IL MB (GLE-10083) Use Level 1.0-100.0% ●●●●

INCI: Isoamyl Laurate

Description: The natural and sustainable alternative to silicone. Compatible with a variety of emollients and vegetable oils, it improves after-feel by providing a silky and non-greasy texture for skin and hair care formulations.



GREENSOLV: SURFACTANTS & SOLUBILIZERS

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

GreenSolv™ 168 MB (GLE-10093) Use Level 1.0-5.0% ●●●●●

INCI: Caprylyl/Capryl Glucoside, Polyglyceryl-10-Laurate, Water, Glycerin, Polyglyceryl-10 Oleate
Description: A 100% biobased solution used to solubilize essential oils and fragrances in cosmetic formulations. A powerful alternative to synthetics. GreenSolv 168 is a gentle and mild non-ionic surfactant that has shown to be effective in a range of formulations including wipe formulations, and is particularly effective at solubilizing difficult essential oils including fragrances.

GreenSolv™ Clear MB (GLE-10096) Use Level 1.0-5.0% ●●●●●

INCI: Caprylyl/Capryl Glucoside, Water, Sodium Cocoyl Glutamate, Polyglyceryl-5 Oleate, Glyceryl Caprylate, Citric Acid
Description: A natural, PEG-free, fragrance and oil solubilizer. Performance is comparable to that of benchmark synthetic solubilizers.

GreenSolv™ Clear Max MB (GLE-10097) Use Level 1.0-5.0% ●●●●●

INCI: Caprylyl/Capryl Glucoside, Sodium Cocoyl Glutamate, Glyceryl Caprylate, Citric Acid, Polyglyceryl-6 Oleate, Sodium Surfactin
Description: A natural, high performance, PEG-free, fragrance and oil solubilizer that has a synergistic blend of surfactants and wetting agents.

Imbue™ Product Line:

As an alternative to natural surfactant based solubilizers, Imbue™ emulsion concentrates allow you to incorporate fragrance and additional oils into emulsion based systems which will avoid any of the undesirable soaping, tackiness and instability effects commonly associated with traditional solubilizers.

Imbue™ SF MB (GLE-10099) Use Level 0.5-50% ●●●●●

INCI: Water, Carmathus Tinctorius (Safflower) Oil, Glycerin, Polyglyceryl-6-Stearate, Glyceryl Caprylate, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ TEC MB (GLE-10103) Use Level 0.5-50% ●●●●●●

INCI: Water, Triethyl Citrate, Glycerin, Polyglyceryl-6-Stearate, Glyceryl Caprylate, Carmathus Tinctorius (Safflower) Oil, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ Shea MB (GLE-10101) Use Level 0.5-50% ●●●●●

INCI: Water, Butyrospermum Parkii (Shea) Butter Extract, Glycerin, Polyglyceryl-6-Stearate, Glyceryl Caprylate, Carmathus Tinctorius (Safflower) Oil, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ Coconut MB (GLE-10105) Use Level 0.5-50% ●●●●●●

INCI: Water, Cocos Nucifera (Coconut) Oil, Glycerin, Polyglyceryl-6 Stearate, Glyceryl Caprylate, Carmathus Tinctorius (Safflower) Oil, Xanthan Gum, Rosmarinus Officinalis (Rosemary) Leaf Extract

Imbue™ JO MB (GLE-10102) Use Level 0.5-50% ●●●●●

INCI: Water, Simmondsia Chinensis (Jojoba) Seed Oil, Glycerin, Polyglyceryl-6 Stearate, Glyceryl Caprylate, Xanthan Gum, Carthamus Tinctorius (Safflower) Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract



GREENGARD: ANTIMICROBIALS & CHELATION

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

GreenGard™ L* (GLE-10045)

Use Level 1.5-2.5%

PATENT-PENDING

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INCI: Arginine Levulinate, Water

Description: 100% biobased, multifunctional ingredient. Strong activity against gram (+) and gram (-) bacteria, works best when paired with an anti-fungal agent. In-vitro testing confirms additional skin benefits including a reduction of TEWL and upregulation of collagen I. Most effective between pH 4.5 and 5.5.

GreenGard™ LA (GLE-10039)

Use Level 1.5-2.5%

PATENT-PENDING

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INCI: Water, Arginine Levulinate, Arginine Anisate

Description: 100% biobased broad-spectrum antimicrobial for use in all formulations. Most effective between pH 4.5 and 5.5.

GreenGard™ LB (GLE-10040)

Use Level 1.5-2.5%

PATENT-PENDING

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INCI: Water, Arginine Levulinate, Arginine Benzoate

Description: 100% biobased broad-spectrum antimicrobial for use in all formulations. Most effective between pH 4.5 and 5.5.

*Please note that China-Compliant documentation for these newly PCPC approved INCI's can be supplied upon request.

CONTINUED

GREENGARD: ANTIMICROBIALS & CHELATION

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

GreenGard™ BA bio (GLE-10064) Use Level 0.1-0.5% ●●●●●

INCI: Benzoic Acid
Description: A 100% natural Benzoic Acid derived from cinnamon with reliable antimicrobial properties.

GreenGard™ PEA bio (GLE-10077) Use Level 0.1-0.5% ●●●●●

INCI: Phenethyl Alcohol
Description: A 100% natural water-soluble aromatic additive with pH independent antimicrobial activity.

GreenGard™ TBO (GLE-10028) Use Level 1.0-2.0% ●●●●●

INCI: Triethyl Citrate, Benzoic Acid, Caprylyl Glycol
Description: A broad-spectrum antimicrobial blend that is highly effective against Gram (+) (-) bacteria, and also is effective against yeast and mold.

GreenGard™ TBOS (GLE-10024) Use Level 1.0-2.0% ●●●●●

INCI: Triethyl Citrate, Benzoic Acid, Caprylyl Glycol, Salicylic Acid
Description: Generally used in more challenging formulations where GreenGard TBO is not effective.

GreenGard™ TBG (GLE-10023) Use Level 1.0-2.0% ●●●●●

INCI: Triethyl Citrate, Glyceryl Caprylate, Benzoic Acid
Description: A 100% natural, broad-spectrum, antimicrobial blend that is highly effective against Gram (+) & (-) bacteria and yeast and mold.

GreenGard™ DEO (GLE-10076) Use Level 0.3-1.0% ●●●●●●

INCI: Sodium Caproyl/Lauroyl Lactylate, Triethyl Citrate, Salvia Officinalis (Sage) Oil
Description: A 100% natural blend of deodorizing and moisturizing emollients. Triethyl Citrate combined with sage oil effectively helps diminish bacteria by cleaving certain esters in sweat and and preventing the release of short chain fatty acids that can produce unpleasant odors.

GreenGard™ PA (GLE-10068) Use Level 0.05-0.2% ●●●●●

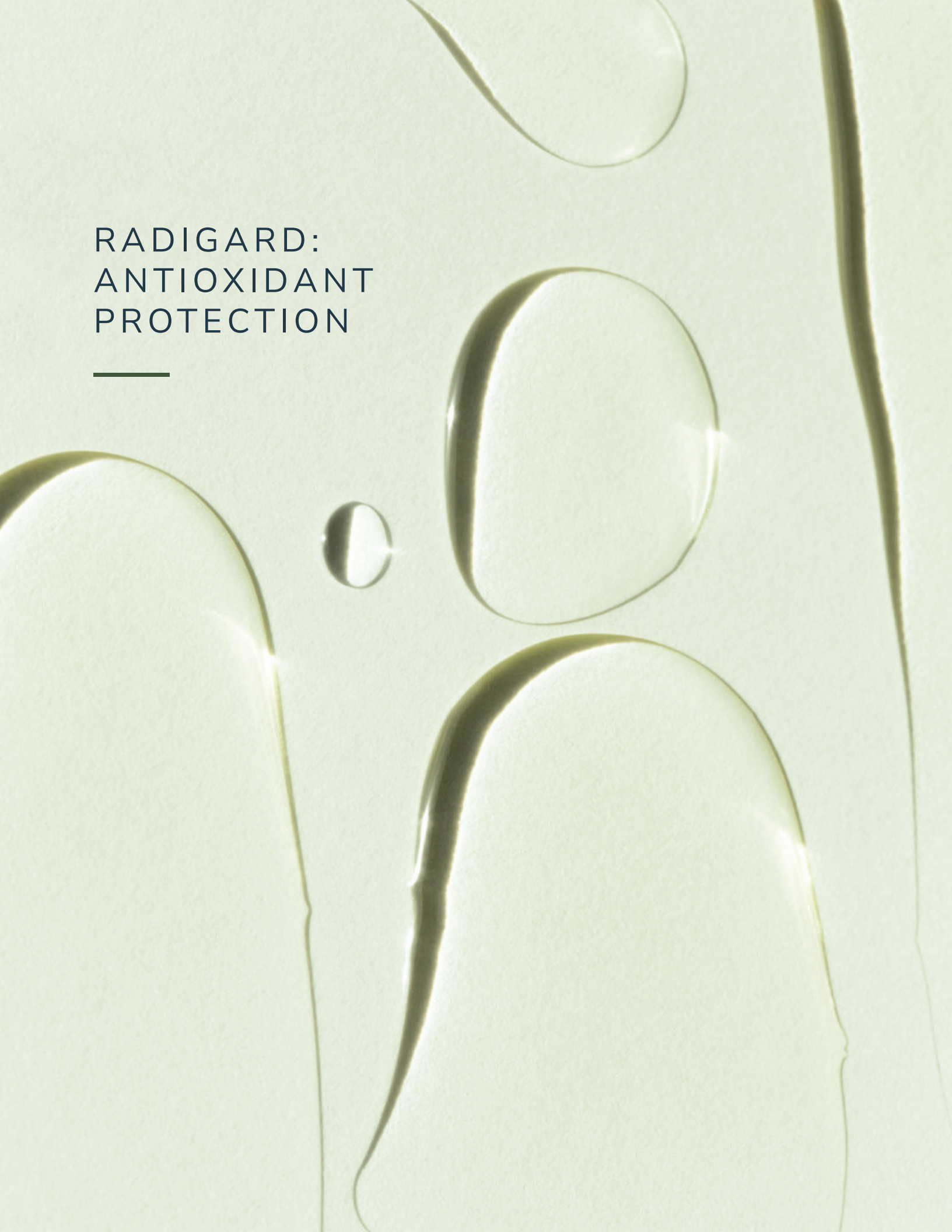
INCI: Phytic Acid, Water
Description: Natural chelating agent from rice in liquid form and 1:1 disodium EDTA replacement. Forms a biodegradable complex with metal ions. Supplied as pH 1-3.

GreenGard™ PA3 (GLE-10069) Use Level 0.05-0.2% ●●●●●

INCI: Sodium Phytate, Water, Alcohol
Description: Natural chelating agent from rice in liquid form and 1:1 disodium EDTA replacement. Forms a biodegradable complex with metal ions. Supplied as pH 2-4.

GreenGard™ PA12 (GLE-10070) Use Level 0.05-0.2% ●●●●●

INCI: Sodium Phytate
Description: Natural chelating agent from rice in liquid form and 1:1 tetrasodium EDTA replacement. Forms a biodegradable complex with metal ions. Supplied as pH 11-12.



RADIGARD: ANTIOXIDANT PROTECTION

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

Radigard™ Product Line:

Provides a dependable shield against oxidation for various oils and serves as an excellent substitute for soy-based tocopherol. Based on rosemary extract, Radigard™ utilizes an advanced carnosic acid oxidation cascade, this extract adds several layers of protection to the oil phase of any formulation, ensuring that your products will last longer. Radigard™ is a valuable addition to protective body and face oils.

Radigard™ SN-R (GLE-10052) **Use Level** 0.1-1.0% ● ● ●

INCI: Helianthus Annuus (Sunflower) Seed Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract

Radigard™ SF-R (GLE-10053) **Use Level** 0.1-1.0% ● ● ●

INCI: Carthamus Tinctorius (Safflower) Seed Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract

Radigard™ CT-R (GLE-10017) **Use Level** 0.1-1.0% ● ● ●

INCI: Caprylic/Capric Triglyceride, Rosmarinus Officinalis (Rosemary) Leaf Extract

Organic Radigard™ CO-R (GLE-4234) **Use Level** 0.1-1.0% ● ● ●

INCI: Canola Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract



ACTIVES

KEY: ● Haircare ● Skincare ● Baby ● Suncare ● Toiletrie ● Deodorant

Inflamox™ Plus (GLA-11004)

Use Level 0.5-2.0%

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INCI: Vaccinium Macrocarpon (Cranberry) Seed Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract, Curcuma Longa (Turmeric) Root Extract, Zingiber Officinale (Ginger) Root Extract

Description: A lipophillic, anti-inflammatory active developed with ayurvedic principles. An in-vitro study demonstrated successful downregulation of inflammatory markers IL-6 and TNFa. In a consumer perception study, Inflamox Plus showed greater redness reduction than an untreated control starting at 4 hours but had the greatest effect at 8 hours.

Vivify™ Plus (GLA-11006)

Use Level 0.5-2.0%

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INCI: Propanediol, Myrothamnus Flabellifolia Leaf/ Stem Extract, Aloe Ferox Leaf Extract

Description: A safeguard active for hair and skin featuring sustainably harvested leaves from Myrothamnus Flabellifolia and Aloe ferox sourced from the cape of South Africa. In-vitro scalp test showed a reduction in UV damage by more than 50% in HDPFC.

BioFer™ Sugar Kelp (GLA-11007)

Use Level 0.5-2.0%

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INCI: Lactobacillus/Sugar Kelp Ferment Filtrate Lysate

Description: A skin firming active featuring a ferment of Laminaria Saccharina (Sugar Kelp) with L.plantarum sustainably farmed off the coast of Maine. Ex-vivo testing showed a marked improvement in skin elasticity within 2 hours with sustained improvement up to 8 hours. In-vitro testing validates results by showing a significant increase in collagen I up regulation.



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INGREDIENTS

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