Multifunctional Active Ingredients

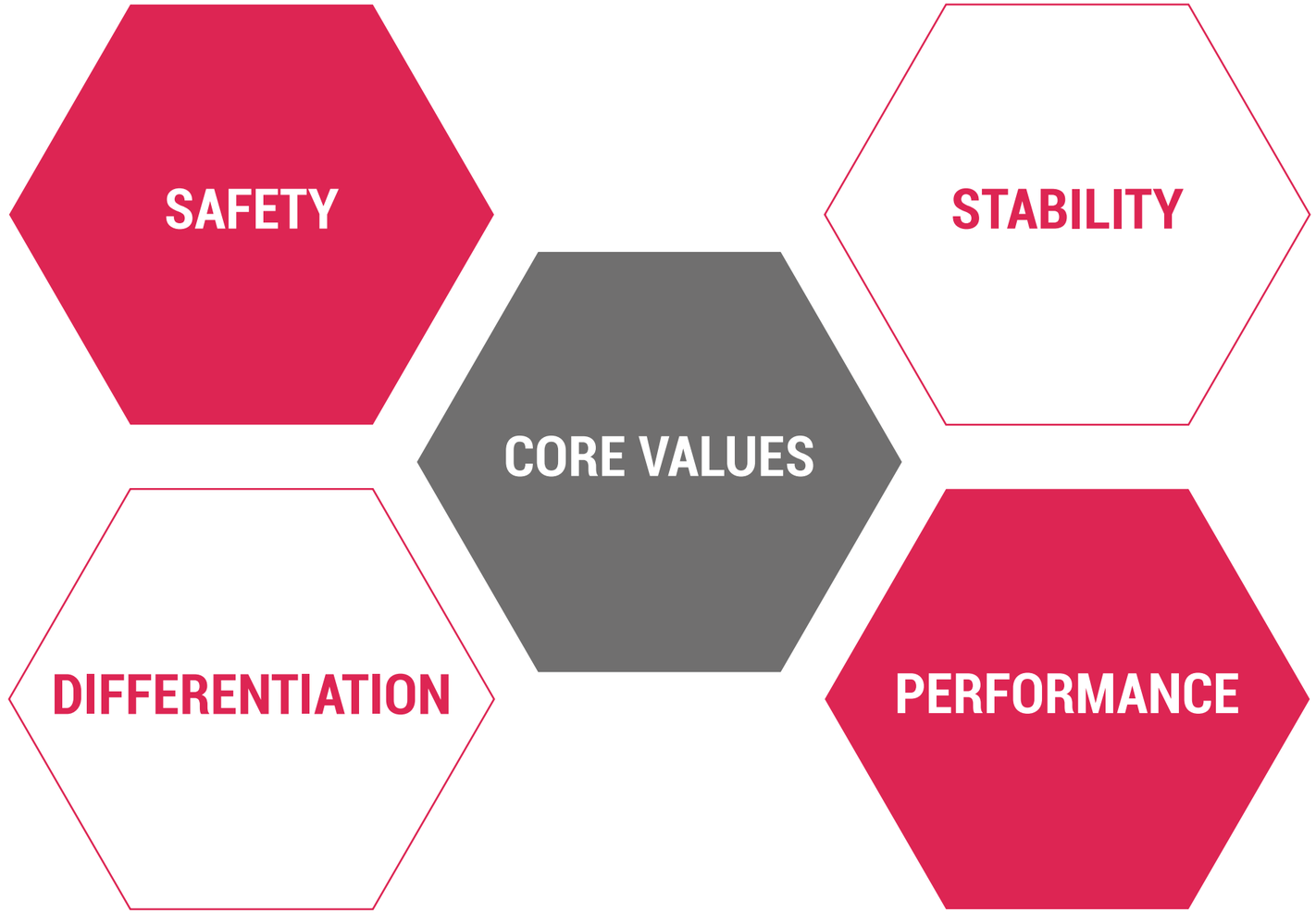
for the Personal Care Industry

www.sytheonltd.com

SYTHEON
...making innovation work

Our Value Drivers

Founded in 2006, Sytheon is a research-based company committed to developing high-performance active ingredients for the personal care industry. The innovation process is driven by four core criteria for qualifying a potential blockbuster



Product Category

Every active ingredient in the Sytheon portfolio is inspired by nature: either they are directly derived from Mother Nature, or they are inspired by natural chemistry and made through organic synthetis. Sytheon's goal is to supply blockbuster ingredients with proven performances for unique and superior end-products. All active ingredients are multifunctional and can be used in all major skin care categories:

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Product Portfolio

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Claims Overview

Asyntra® D-Stress

Destress Your Skin

Isosorbide Dicaprylate, Bakuchiol, Ethyl Linoleate

VitaSynol® C

Stable and Bioavailable Vitamin C

Tetrahexyldecyl Ascorbate

Synoxyl® AZ

Microbiome Friendly 24/7 Prevention & Repair of Skin Damage

Acetyl Zingerone

Synoxyl® HSS

A Breakthrough Photostabilizer with In-vivo SPF Boosting

Trimethoxybenzylidene Pentanedione

Synovea® HR & Asyntra® SL

The Gold Standards In Skin Lightening & Even Toning

Hexylresorcinol; Caprylic/Capric Triglycerides, Ethyl Linoleate, Hexylresorcinol

Synactin® AC

5-in-1 Solutions for Mitigating Acne-affected Skin

Caprylic/Capric Triglycerides, Ethyl Linoleate, Hexylresorcinol

Sytenol® A

The True alternative to Retinol

Bakuchiol

Synastol® TC

The Holistic Solution to Pollution & Blue Light Damage

Terminalia Chebula Fruit Extract

Hydra Synol® DOI

A Smart Lipophilic Skin Hydrator & Barrier Builder

Isosorbide Dicaprylate

Synovea® EL

A Smart Synergist with Multiple Skin Benefits

Ethyl Linoleate

More info on www.sytheonltd.com

ASYNTRA® D-STRESS

Destress Your Skin

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INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Isosorbide Dicaprylate, Bakuchiol, Ethyl Linoleate	• Enhances Anandamide (the bliss molecule) by reducing FAAH and FABP-5 Enzymes • Strengthens skin barrier by boosting ceramides • Reduces stress by repressing cortisol (stress marker) • Performance enhancer for CBD & Hemp Oil	• Enhances innate antioxidant system to fight against inflammation • Maintains hydration through strengthening skin barrier • Calms skin redness in rosacea-prone skin subjects	2 to 4%	• Stress relief products • Sensitive skin • Even toner	Green chemistry, Plant, Extraction

VitaSynol® C

Stable and Bioavailable Vitamin C

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INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Tetrahexyldecyl Ascorbate	• Improved stability against heat and oxidation compared to Vitamin C • Easy to formulate due to lipophilicity • Reduces melanin synthesis by tyrosinase inhibition • Reduces UV-induced cell damage • Increases Collagen synthesis and reduces its degradation • Improves stability & performances when combined with Synoxyl® AZ	• Corrects & prevents intrinsic & extrinsic aging • Reduces UV induced pigmentation, even toning	2 to 30%	• Corrects & prevents intrinsic & extrinsic aging • Reduces UV induced pigmentation, even toning	Organic synthesis

SYNOXYL® AZ

Microbiome Friendly 24/7 Prevention & Repair of Skin Damage

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INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Acetyl Zingerone	• All-in-one – Antioxidant, Quencher & Selective Chelator – First in the Industry • Reduces immediate and delayed skin damages (CPDs) – First in the Industry • Photochemically stable antioxidant in contrast to conventional antioxidants • Maintains ECM integrity by strongly upregulating all six matrisome genes/proteins • Reverses sign of cellular senescence	• Significant reduction (>25%) in wrinkles, uneven pigmentation & skin redness in 4 weeks • Improved skin's defenses by protecting UV-induced damages	0.5 to 1%	• Sun Preparation: Photoaging prevention • After-Sun: Photoaging repair • Complementary Biological Protection to SPF products • Anti-pollution: Skin Detox	Organic synthesis

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SYNOXYL® HSS

A Breakthrough Photostabilizer with In-vivo SPF Boosting

INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Trimethoxybenzy-lidene Pentanedione	• Highly effective photostabilizer compared to commercial stabilizers • Reduces formation of radicals • Biodegradable – Ecofriendly sunscreen products	• Cost-effective high-performance sunscreen products • In-vivo SPF boosting by ≥50% in organic & inorganic sunscreens while alone no contribution to SPF	0.5 to 2.5%	• High SPF ecofriendly sunscreens based on organic or inorganic UV Filters • Color cosmetics (Lipsticks) • Toiletries using photosensitive fragrances and/or dyes	Organic synthesis

SYNOVEA® HR & ASYNTRA® SL

The Gold Standards In Skin Lightening & Even Toning

INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Hexylresorcinol; **Caprylic/Capric Triglycerides, Ethyl Linoleate, Hexylresorcinol**	• Multi-targeted (9 sites) inhibition of melanin synthesis • Indirect antioxidant – stimulates glutathione • Strong reduction in proinflammatory biomarker NF-kB	• Skin brightening & even toning • Works for normal & hyperpigmented skin of all phototypes • Proven to be 2 to 4-times more effective than Hydroquinone • Significant improvement in skin complexion	0.5 to 1% 2 to 4%	• Skin brightening and even toner • Hyperpigmentation or dark spots correction • Asyntra® SL is a synergistic liquid blend of Hexylresorcinol & Ethyl Linoleate	Organic synthesis

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SYNACTIN® AC

5-in-1 Solutions for Mitigating Acne-affected Skin

INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Caprylic/Capric Triglycerides, Ethyl Linoleate, Hexylresorcinol	• Regulates follicular keratinization & barrier function • Decreases sebaceous gland activity • Decreases follicular bacterial population • Produces anti-inflammatory effect • Reduces post-inflammatory hyperpigmentation	• Mitigates all major targets of acne-affected skin • Improves skin texture & complexion • Significant reduction in skin erythema	2 to 4%	• Anti-acne • Post-inflammatory pigmentation treatments for phototypes IV, V & VI	Organic synthesis

SYTENOL® A

The True alternative to Retinol

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INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Bakuchiol	• Retinol-like activity (DNA microarray & PCR array) • Boosts Collagen I, III & IV • Inhibits MMPs • Broad-action antioxidant • Protects mitochondrial genome • Increases mitochondrial biogenesis	• Double-blind, randomized comparative clinical study with Retinol – significant reduction in wrinkle surface area & hyperpigmentation; much better skin tolerance than Retinol • Anti-acne study- significant reduction in acne lesion & improvement in skin complexion	0.5 to 1%	• Antiaging - day & night • Antiacne • Sun preparation: Preventative protection	Plant, >99% pure well-defined compound

NATRUE APPROVED

SYNASTOL® TC

The Holistic Solution to Pollution & Blue Light Damage

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INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Terminalia Chebula Fruit Extract	• Significantly reduces oxidative stress induced by urban dust & blue light • Significant reduction in pro-inflammatory biomarkers – IL-6 & IL-8 • Repairs & maintains skin barrier and hydration by bolstering FLG, AQP-9 & LOR genes & proteins • Long-lasting skin protection due to cascading effect • Multitargeted anti-aging product – Antiglycation & Glycation reversal	• Reduces wrinkle depth & skin roughness • Significant reduction in under-eye dark circle • Provides even skin tone • Reverses the visible signs of pollution-induced skin damage	0.5 to 1%	• Anti-pollution: skin detox & blue light protection • Green cosmetic skin care: super fruit with ayurvedic claims • Anti-aging	Plant, direct extraction

NATRUE APPROVED

ECOCERT COSMOS APPROVED

HYDRA SYNOL® DOI

A Smart Lipophilic Skin Hydrator & Barrier Builder

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INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Isosorbide Dicaprylate	• Multitargeted skin hydrator & barrier builder (DNA microarray & PCR array) • Stimulates AQP-3 gene (& protein), CD44, tight junctions, desmosome, Epidermal genes/ proteins • Upregulation of E-Cadherin provides skin homeostasis • Boosts ceramide synthase gene	• Smart skin hydrator – helps move moisture where it is needed • Very effective in providing long-lasting (>48 hrs.) & controlled hydration • Improves & extends tanning effect in glow products	2 to 4%	• Long lasting skin hydrator • Barrier building cremes/ lotions • Hair gloss products • Self-tanning glow products • Baby care & color cosmetics NATRUE APPROVED COSMOS APPROVED	Plant, Green chemistry

SYNOVEA® EL

A Smart Synergist with Multiple Skin Benefits

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INCI	In-vitro data and biological properties	Clinical studies	Use level	Applications	Origin
Ethyl Linoleate	• Stimulates genes associated with fatty acid transport, long-chain fatty acid metabolism, and lipid localization • Stimulates genes associated with the negative regulation of adaptive immunity and leukocyte proliferation • Dose-dependent inhibition of proinflammatory biomarker NF-kB • Preserves stratum corneum by bolstering AQP-9, FLG, LOR proteins	• Reduces multiple signs of acne when combined with Triethyl Citrate • Enhances skin lightening effect when combined with Synovea® HR • Maintains stratum corneum acid mantle	2 to 5%	• Skin hydration • Anti-acne products • Hyperpigmentation treatments	Plant, Green chemistry

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COSMOS APPROVED

Claims Overview

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	Asyntra® D-Stress	VitaSynol® C	Synoxyl® AZ	Synoxyl® HSS	Synovea® HR & Asyntra® SL	Synactin® AC	Sytenol® A	Synastol® TC	Hydra Synol® DOI	Synovea® EL
Anti-aging		●	●		●		●	●	●	
Hyperpigmentation-control					●	●				●
Skin Hydration	●							●	●	●
Skin Redness	●		●				●	●		
Anti-acne						●	●			●
Skin Brightening		●			●	●	●	●		●
Anti-inflammation	●		●		●	●	●	●		●
Under-Eye Dark Circles					●			●		
Skin Tone	●		●		●	●		●		
Skin Barrier Repair	●							●	●	●
Skin Protection			●	●	●	●	●	●	●	●
Anti-wrinkle		●	●		●		●	●	●	
Skin Elasticity							●	●	●	
Photostabilizer			●	●						
Antioxidant*			●	■	■		●	●		
Anti-pollution/Blue Light			●					●		
SPF Booster				●						
Solubilizer									●	●
Oil Soluble	●	●	●	●	●	●	●		●	●
Water Soluble								●		

●● Color intensity determines the degree of effectiveness of the active ingredient
■ represents indirect antioxidant activity

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