

PRODUCTS FOR THE PERSONAL CARE INDUSTRY



PRODUCT PROTECTION

.....
CATALOG 2019



FOREWORD

Dear Customer,

Welcome to Evonik's first Product Protection catalog. Building on the reputation of the past, it features Dr. Straetmans as Evonik's future brand for competences and solutions in stabilizing cosmetic formulations against the deteriorating effects of microorganism and oxygen.

Besides a broad range of service offers, it comprises an extensive range of modern preservation systems, innovative actives against a variety of microbiologically caused skin disorders, effective natural antioxidant and chelating agents.

Together with the Evonik specialty ingredients for Personal Care and the Evonik Active Ingredients catalogs, the present catalog provides you access to one of the most comprehensive portfolios of functional and active raw materials in the cosmetic industry.

Evonik invites you to dive into a whole world of ideas, concepts and solutions for your tomorrow's product.

MORE INFORMATION
ON EVONIK PRODUCTS
CAN BE FOUND IN THE
Active Ingredients Catalog
AND IN THE
Catalog of Products.

HIGHLIGHTS

PAGE 32 + 34

PAGE 12

PAGE 28

NATURAL EXTENSION OF OUR DERMOFEEL® RANGE OF ANTIOXIDANTS:

dermofeel® TocoBalance

Rapeseed based antioxidant with a balanced content of mixed tocopherols for product and skin protection at once.

dermofeel® TocoSkin

Sunflower based antioxidant with a high content of alpha-tocopherol for effective skin protection, suitable for certified natural cosmetics.

DERMOSOFT® AND VERSTATIL® RECOMMENDATION SHEET

Find out about your options for alternative antimicrobial protection or economic and convenient preservation.

DEODORANT PRODUCT GROUP

Uniting three different modes of action from our product lines for maximum performance in deodorant applications.

dermosoft® & TEGO® COSMO

Antimicrobial efficacy for the prevention of germ growth and odor formation.

TEGODEO®

Efficient odor absorber, either available as pure material or convenient blend.

dermofeel® TEC eco

Smart odor inhibitor by blocking enzyme activity of bacteria.

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SERVICE

High quality raw materials are just one factor to successful product development. Knowledge and support when formulating with them is also key to bring your ideas to market as fast as possible.

Having in-house, proven experts with many years of experience, Evonik Dr. Straetmans offers the complete package of services, to help guarantee your development success.

OUR MICROBIOLOGICAL SERVICES INCLUDE:

Microbiological challenge testing according to Pharm. Eur. 2011, 5.1.3 or any other protocol

- Proof of sufficient preservation according to cosmetic regulation 1223/2009/EC
- Periodic performance updates
- Full reports and interpretation of results

Identification of microbiological contamination by molecular biological method

- Recommendations of preservative measures against specific organisms
- Customer designed challenge testing against specific microorganisms
- Claim substantiation for targeted application

OUR PRODUCT DEVELOPMENT AND QUALITY CARE SERVICES INCLUDE:

Product development

- Detailed formulation advice for all Dr. Straetmans raw materials
- Prototype formulations with proven stability and claims

Quality care

- Stability testing
- Quality control of production

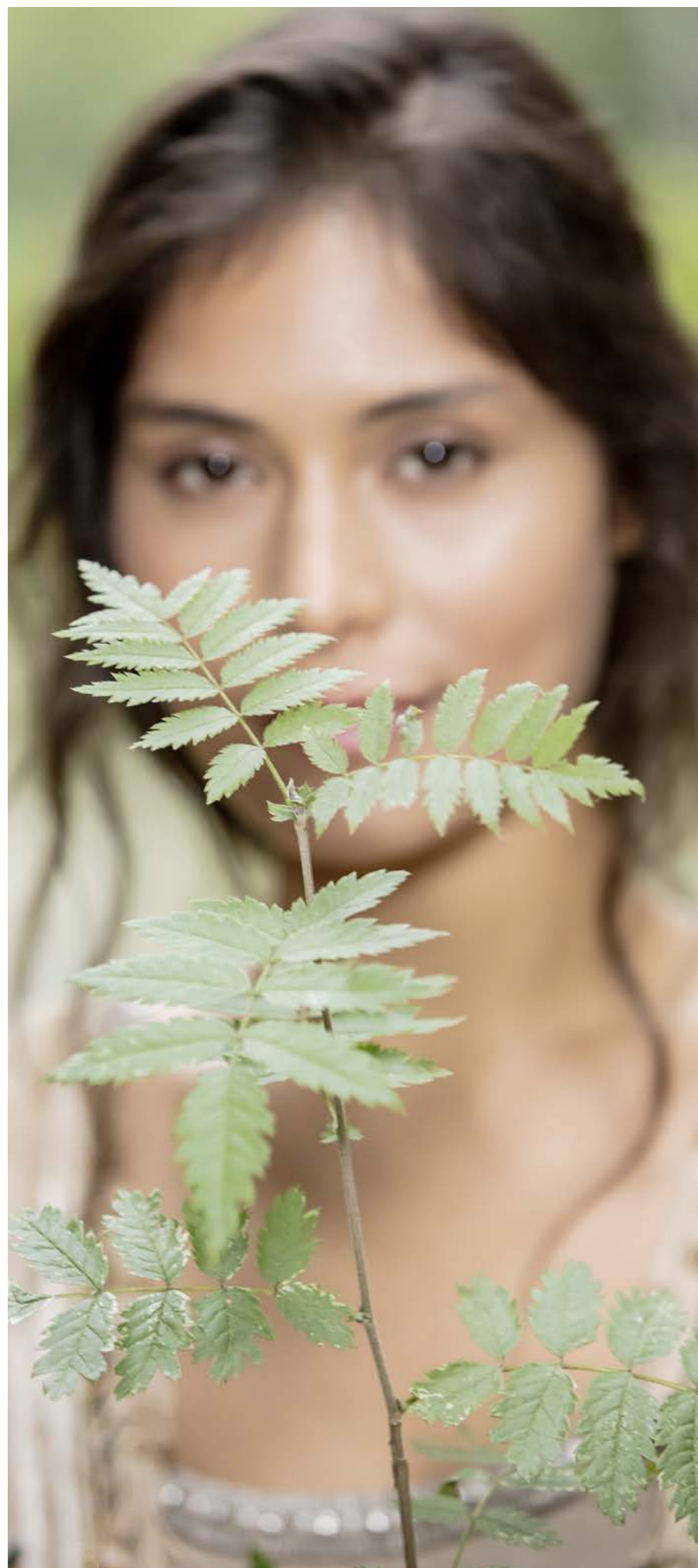
OUR REGULATORY SERVICES INCLUDE E.G.:

- Formulation guidance according to natural cosmetic guidelines
- Country specific formulation and regulatory advice
- Advice in product registration according to local legislation
- ... and this is just a small part of what we offer. Let us know how we can support your product innovation!

WORKSHOP TRAINING SERVICE:

- For customers and partners
- Enhance the knowledge transfer
- Present new applications technology
- Tailor-made customer sessions
- Skin Care workshops

FOR FURTHER
INFORMATION PLEASE
CONTACT:
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SUSTAINABILITY: BECAUSE IT'S PERSONAL

OUR ATTITUDE TOWARDS SUSTAINABILITY

Our products are extremely personal – consumers quite literally put them on their skin – which means the ingredients are of the greatest importance. We're always striving to come up with better, more beneficial and nourishing formulas – so that consumers can fully experience and maintain their natural beauty. And it's this same attitude that we bring to the environment: to respect, nourish, preserve and enhance. Consumers, too, are clearly concerned about issues such as biodiversity loss, ocean littering and the over-exploitation of natural resources. No longer an abstract future scenario, this is a tangible reality even today, and for each and every one of us. Consumers today know their choices make a difference for the protection and beauty of both their skin and the natural world. At Evonik, we dedicate our research and development to indirectly enabling consumers to make a positive impact – for their personal wellbeing and that of the planet.

As a company, we're fully conscious of the impact our activities have on the environment and society. While our overall impact may be small, there's always scope for innovative new solutions. This is why we've been working to move sustainability concerns to the core of our business activities – and to reconcile them with

our business objectives. When it comes to our business processes, product portfolio and the raw materials we use, we're convinced that adopting a proactive rather than reactive stance to sustainability will benefit consumers just as much as society and the planet.

THE CAREtain® TOOLBOX OFFERS FULL TRANSPARENCY

Our most important objective – and greatest challenge – is to create and maintain transparency. Only transparency allows us to identify non-sustainable areas in the value chain and improve them effectively. While our efforts may not necessarily be visible to end consumers, we do our part to create differentiation options for cosmetics manufacturers, and the choices these manufacturers make are ultimately passed down to consumers.

Our **CAREtain®** Toolbox is a dynamic, ever-growing information system which has allowed us to quantify, qualify and make tangible our sustainability attitude – for our clients and us as a company. The toolbox currently maps the most important sustainability aspects with impact on sourcing, processing and application for our cosmetics ingredients. It includes such categories as RSPO-certified, biodegradability, COSMOS status, vegan and origin. With the **CAREtain®** Toolbox, Evonik aims to create transparency as well as a sustainable

edge regarding its products and raw materials – and to provide its clients with an instrument for developing their own eco-optimized products.

For further information, please visit us on: www.evonik.com/caretain.

BUT WHAT ABOUT PALM OIL?

Palm oil and palm kernel oil are ingredients that supply valuable fatty acids for a wide range of cosmetics. The cultivation of oil palms is undeniably one of the industry's greatest challenges. At Evonik, we still use palm-derived components and are fully aware of the sustainability issues this entails. The increasing demand for palm oil is compounded by a lack of regional development options. This continues to lead to devastating and even illegal deforestation of highly valuable biospheres, thereby adding to the rise in greenhouse gas emissions. Even so, palm-derived components are still considered the best available option for our industry – their harvesting takes up a mere six percent of all arable land used for plant oil production, while yielding a third of global plant oil. On average, the output of alternatives such as sunflower, rapeseed, coconut or soy plants is three times lower than that of oil palms.

As a member of the RSPO, we're involved in driving forward the development of sustainable palm oil

cultivation. Today, most of the palm-based ingredients we use in products for the personal care industry are certified as either Mass Balance* or Segregated**.

Our next step in this process is to stop actively promoting the non-certified palm-based product varieties in our portfolio. This strategy will contribute to the expansion of the use of certified palm derivatives in novel final product developments and is also in line with Evonik's commitment to promote RSPO efforts. As far as our attitude towards sustainability goes, we're always looking to the horizon.

*MASS BALANCE (MB):

Certified sustainable palm oil is mixed in with conventional palm oil and is monitored administratively. This is a first move towards partially substituting conventional palm oil.

**SEGREGATED (SG):

Certified sustainable palm oil from a variety of production areas is used but kept separate from conventional ingredients throughout the supply chain.

MULTIFUNCTIONAL ANTIMICROBIALS & PRESERVATIVES



INNOVATIVE RAW MATERIALS FOR ALTERNATIVE AND ECONOMIC PRESERVATION

Since many years, preservatives are subject to intense marketing and safety discussions. As a result, several standard preserving systems are facing public depreciation, legal restrictions or even prohibition. Consequently, for formulators the number of approved systems to cope with the legal demand of bringing microbiologically stable products to the market is declining steadily.

While several years ago, alternative strategies such as the use of multifunctional antimicrobials have only been curiosities or interesting options, today, the use of these components as integral part of a preservation concept has become indispensable.

Under the trade name **dermosoft**®, Evonik Dr. Straetmans has developed a range of multifunctional antimicrobial additives which became a synonym for pioneering inventions that are meanwhile established market standards. The antimicrobial activity of these multifunctional ingredients can be used as a secondary benefit to complement and support the preservation of cosmetic products.

With our **Verstail**® products, we added a carefully chosen line of traditional preservatives to our portfolio. Balancing out the different marketing and budget demands, with the requirement to keep efficacy and safety at the highest level, is the main focus of the **Verstail**® range. We are constantly developing this product line and are offering tailor-made solutions also for more specific applications and preservation challenges.

Both, the **dermosoft**® and **Verstail**® product line, alone or in combination, have proven their effectiveness as reliable preserving systems in thousands of challenge tests. With our web tool (<https://www.dr-straetmans.de/en/pcpg>) we guide you through an extended range of publicly accepted antimicrobials and provide you with valuable preserving options for your individual formulation type and marketing concept. Establishing the effectiveness of these options in microbiological challenge tests is part of our customer service.

Please also refer to the formulation database on our homepage www.dr-straetmans.de in which you will find numerous formulations of proven antimicrobial stability.

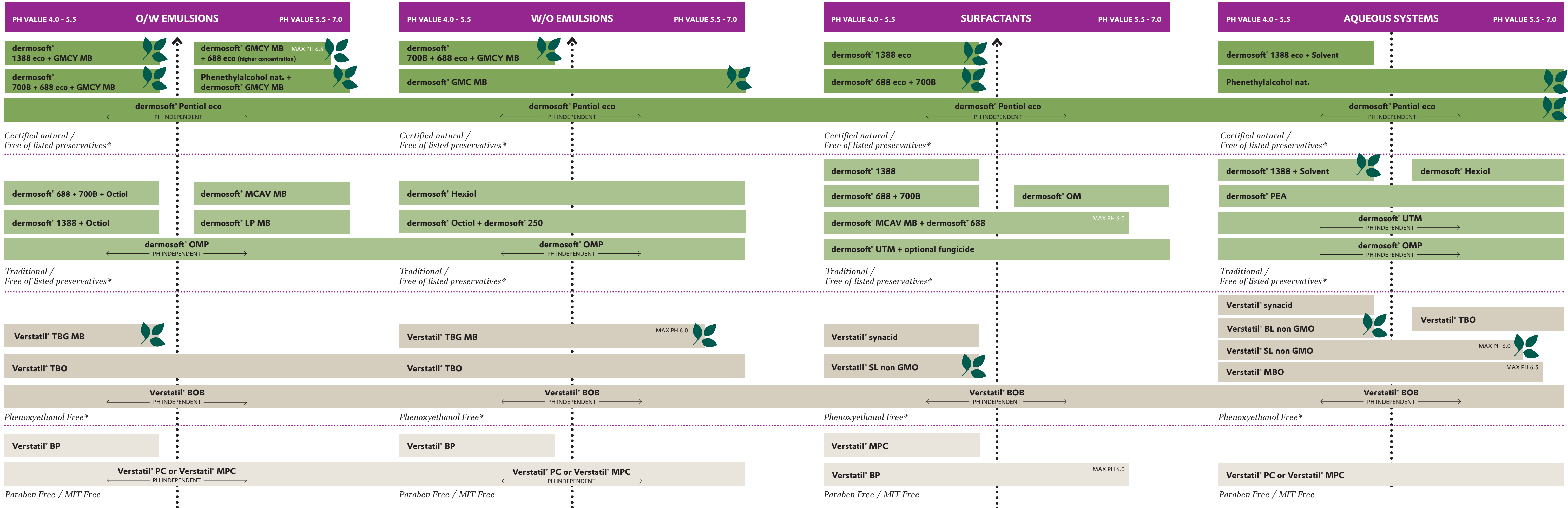




**LET US SHOW YOU THE MANIFOLD
OPPORTUNITIES OF OUR
ANTIMICROBIAL ADDITIVES.**








**THERE ISN'T AN EASY
WAY FOR ALTERNATIVE
PRESERVATION, BUT THERE IS THE
EVONIK DR. STRAETMANS WAY.**



This recommendations should serve as a guidance for working with our dermosoft® and Verstail® products.
 Don't hesitate to contact us to discuss specific project requirements or to discuss the possibility to fulfill special claims like parfum free.
 * Higher-ranking product-concepts include all qualities of minor product-concepts.

MULTIFUNCTIONALS - DERMOSOFT® PRODUCT RANGE




PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES				COSMETIC PROPERTIES	ANTIMICROBIAL EFFICACY*			
			form	dosage	pH-range	natural compliance		gram+	gram-	yeast	mold
ORGANIC ACIDS											
dermosoft® 688	p-Anisic Acid	Mild and skin friendly organic acid with fungicidal activity. Optimum pH < 5.5. Combination with antimicrobial surface active substance (e.g. dermosoft® Octiol or dermosoft® GMCY MB) is recommended to improve the performance of the product even at higher pH.	powder	0.05 - 0.5%	4.0 - 6.5		Masking, pH regulating	✓		✓	✓✓
dermosoft® 688 eco											
dermosoft® anisate	Sodium Anisate	Easy to use water soluble salt of an organic acid with an excellent fungicidal activity. Optimum pH < 5.5. Can be added to the cold water or hot water phase at any step of the process. Combination with antimicrobial surface active substance (e.g. dermosoft® Octiol or dermosoft® GMCY MB) is recommended to improve the performance of the product even at higher pH.	powder	0.05 - 0.5%	4.0 - 6.5		Masking	✓		✓	✓✓
dermosoft® anisate eco											
dermosoft® 700B	Levulinic Acid; Sodium Levulinate; Glycerin; Aqua	Mild and skin friendly plant derived organic acid formulation with bactericidal activity. Optimum pH < 5.5. Easy to handle, water soluble.	liquid	0.5 - 1.0%	4.0 - 6.0		Perfume, skin conditioning, pH regulating	✓✓	✓✓	✓	
dermosoft® 1388	Glycerin; Aqua; Sodium Levulinate; Sodium Anisate	Convenient blend of organic acids with broad antimicrobial activity. pH dependent efficacy. Combination with antimicrobial surface active substance (e.g. dermosoft® GMCY MB) is recommended to improve the performance of the product.	liquid	2.0 - 4.0%	4.0 - 5.5		Masking, skin conditioning, pH regulating	✓✓	✓✓	✓✓	✓✓
dermosoft® 1388 eco											
dermorganics® 1388						 certified organic					

Legend: ✓ = good, but needs a co-active | ✓✓ = very good alone

* the given performance data is only for orientation. Results are depending on the specific formulation. For individual recommendations contact us for support.

detailed information concerning products, natural regulations, regulatory status and formulations are available on request

MULTIFUNCTIONALS - DERMOSOFT® PRODUCT RANGE


PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES				COSMETIC PROPERTIES	ANTIMICROBIAL EFFICACY*			
			form	dosage	pH-range	natural compliance		gram+	gram-	yeast	mold
WETTING AGENTS / SURFACTANTS											
dermosoft® Octiol	Caprylyl Glycol	Universal wetting agent with strong antimicrobial properties. pH independent activity and stability. May reduce the viscosity of emulsions at higher concentrations. Synergistic combination with organic acids. Boosting effect on antimicrobials and preservatives.	waxy solid	0.3 - 1.0%	unlimited		Wetting	✓	✓✓	✓✓	✓
dermosoft® Hexiol	1,2-Hexanediol	Multifunctional additive with solvng and wetting properties. Really good water solubility and good antimicrobial activity. Can be combined with organic acids or used alone.	liquid	1.0 - 3.0%	unlimited		Wetting, solvent	✓	✓✓	✓✓	✓
dermosoft® Pentiol eco	Pentylene Glycol	A sustainable and natural compliant quality of Pentylene Glycol. Liquid, water soluble, multifunctional additive with pH independent activity and low impact on emulsion stability. Combination with co-active or higher concentrations improve the antimicrobial efficacy.	liquid	1.0 - 5.0%	unlimited		Skin conditioning, solvent	✓✓	✓✓	✓✓	✓
dermosoft® GMCY dermosoft® GMCY MB	Glyceryl Caprylate	Vegetable based wetting agent with strong activity against bacteria and yeast. Suitable as co-emulsifier at low concentrations to improve emulsification.	waxy solid	0.3 - 1.0%	4.0 - 7.0		Wetting, refatting, co-emulsifier	✓✓	✓	✓✓	
dermosoft® GMC dermosoft® GMC MB	Glyceryl Caprate	Vegetable based wetting agent with selective antimicrobial activity over a wide pH range. Suitable for W/O emulsions.	waxy solid	0.4 - 0.8%	4.0 - 7.0		Wetting, refatting	✓✓	✓	✓	
dermosoft® EHG	Ethylhexylglycerin	Versatile and multifunctional additive with antimicrobial efficacy. Boosting effect on antimicrobials and preservatives. Easy to handle, pH independent.	liquid	0.3 - 1.0%	unlimited		Emollient, wetting, humectant	✓	✓✓	✓✓	✓
dermosoft® UTM	Undecylenamidopropyl-trimonium Methosulfate; Aqua; Propylene Glycol	Cationic surfactant with antimicrobial efficacy. Easy to handle and clear soluble in water-based mixtures even at higher pH (up to 7).	liquid	1.0 - 3.0%	unlimited		Wetting, conditioning, moisturizing	✓✓	✓✓	✓	

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MULTIFUNCTIONALS - DERMOSOFT® PRODUCT RANGE



PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES				COSMETIC PROPERTIES	ANTIMICROBIAL EFFICACY*			
			form	dosage	pH-range	natural compliance		gram+	gram-	yeast	mold
AROMATIC ALCOHOLS											
dermosoft® 250	Phenylpropanol	Fragrance ingredient with antimicrobial activity. Synergistic effect with dermosoft® Octiol . Easy application, pH independent.	liquid	0.05 - 0.2%	unlimited		Perfume	✓	✓✓	✓	✓✓
dermosoft® PEA	Phenethyl Alcohol	Water soluble masking agent with rose like scent and good antimicrobial activity. Easy to handle, pH independent.	liquid	0.7 - 1.0%	unlimited		Masking	✓	✓✓	✓	✓✓
Phenethylalcohol nat.	Phenethyl Alcohol	Plant derived water soluble masking agent with rose like scent and good antimicrobial activity. Easy to handle, pH independent.	liquid	0.7 - 1.0%	unlimited		Masking	✓	✓✓	✓	✓✓
CONVENIENCE BLENDS											
dermosoft® OM	Methylpropanediol; Caprylyl Glycol	Odorless, boosted blend. Due to combination of raw materials the load of wetting agents can be reduced while still achieving an excellent activity against germs, regardless of the pH of the formulation.	liquid	3.0 - 4.0 %	unlimited		Wetting, refatting, moisturizing	✓✓	✓✓	✓✓	✓
dermosoft® OMP	Methylpropanediol; Caprylyl Glycol; Phenylpropanol	Synergistic mixture of surface active ingredients with excellent pH independent antimicrobial activity. Low influence on stability and viscosity of emulsions. Ideal replacement for traditional preservative blends (e.g. parabenes).	liquid	2.5 - 4.0%	unlimited		Wetting, refatting, moisturizing	✓✓	✓✓	✓✓	✓✓
dermosoft® LP	Caprylyl Glycol; Glycerin; Glyceryl Caprylate; Phenylpropanol; Aqua	Synergistic mixture of surface active ingredients with excellent broad antimicrobial activity. Ideal replacement for traditional preservative blends. Low use concentration over wide pH range.	liquid	0.8 - 1.5%	4.0 - 7.0		Wetting, refatting, moisturizing	✓✓	✓✓	✓✓	✓✓
dermosoft® LP MB											
dermosoft® MCAV	Caprylyl Glycol; Dipropylene Glycol; Glyceryl Caprylate	Blend with good antimicrobial properties for perfume free product concepts. Easy handling with low use concentration.	liquid	0.5 - 1.0%	4.0 - 7.0		Wetting, refatting, moisturizing	✓✓	✓✓	✓✓	✓
dermosoft® MCAV MB											

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PRESERVATIVES - VERSTATIL® PRODUCT RANGE


PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES				COSMETIC PROPERTIES	ANTIMICROBIAL EFFICACY*			
			form	dosage	pH-range	natural compliance		gram+	gram-	yeast	mold
Verstatil® PC	Phenoxyethanol; Caprylyl Glycol	Optimized economic blend for reliable preservation of skin care products. Water soluble, chemically stable system with low impact on the stability of the product. pH independent.	liquid	0.8 - 1.0%	unlimited		Preservative, wetting, humectant	✓✓	✓✓	✓✓	✓✓
Verstatil® MPC	Methylpropanediol; Phenoxyethanol; Caprylyl Glycol	Preservative blend of a known preservative, a wetting agent and an activity booster. Enables economic and safe preservation with a low level of phenoxyethanol. Easy to handle and applicable in all kinds of product concepts, with a good water solubility.	liquid	1.0 - 3.0%	unlimited		Preservative, wetting, humectant	✓✓	✓✓	✓✓	✓✓
Verstatil® PE	Phenoxyethanol; Ethylhexylglycerin	Synergistic blend of phenoxyethanol and ethylhexylglycerin with a broad-spectrum antimicrobial efficacy. pH independent.	liquid	0.8 - 1.0%	unlimited		Preservative, humectant	✓✓	✓✓	✓✓	✓
Verstatil® BP	Phenoxyethanol; Benzoic Acid	Synergistic blend of phenoxyethanol and benzoic acid. No discoloration of the product. Optimum pH range between 4.0 - 6.0.	liquid	0.5 - 1.0%	4.0 - 6.0		Preservative	✓✓	✓✓	✓✓	✓✓
Verstatil® BOB	Benzyl Alcohol; Caprylyl Glycol; Benzoic Acid	Optimized blend of multifunctional additives and preservatives with excellent broad antimicrobial activity. Suitable for all types of cosmetic products. Allows the formulator to work without criticized preservatives.	liquid	0.8 - 2.0%	4.0 - 7.0		Preservative, perfuming, wetting	✓✓	✓✓	✓✓	✓✓
Verstatil® TBO	Triethyl Citrate; Caprylyl Glycol; Benzoic Acid	Innovative economic blend for preservation. Easy to use in emulsions, tonics and hydrogels. Clear and odorless product, with a strong antimicrobial activity.	liquid	1.0 - 1.5%	4.0 - 7.0		Preservative, wetting	✓✓	✓✓	✓✓	✓✓
Verstatil® TBG	Triethyl Citrate; Glyceryl Caprylate; Benzoic Acid	Innovative economic blend for reliable preservation of certified natural cosmetic products. Perfect suitable for emulsions, tonics and hydrogels. Easy to use. For Paraben-, MIT- and Phenoxyethanol free product concepts.	liquid	1.0 - 1.5%	4.0 - 6.0		Preservative, solvent, masking, wetting	✓✓	✓✓	✓✓	✓
Verstatil® TBG MB											
Verstatil® SL	Aqua; Sodium Levulinate; Potassium Sorbate	Combines the efficacy of a listed preservative with the mild, skin conditioning performance of a multifunctional organic acid. With broad antimicrobial activity especially in surfactant based and aqueous products.	liquid	1.5 - 2.0%	4.0 - 6.0		Preservative, masking	✓✓	✓✓	✓	✓
Verstatil® SL non GMO	Aqua; Sodium Levulinate; Potassium Sorbate	Mix of potassium sorbate in a liquid blend with the skin conditioning agent levulinic acid for optimized skin compatibility. Easy handling. Combination with antimicrobial surface active substance (e.g. dermosoft® Octiol , dermosoft® GMCY MB) is recommended to improve the performance of the product.	liquid	1.5 - 2.0%	4.0 - 6.0		Preservative, masking	✓✓	✓✓	✓	✓

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PRESERVATIVES - VERSTATIL® PRODUCT RANGE

PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES				COSMETIC PROPERTIES	ANTIMICROBIAL EFFICACY*			
			form	dosage	pH-range	natural compliance		gram+	gram-	yeast	mold
Verstatil® BL	Aqua; Sodium Levulinate; Sodium Benzoate	Synergistic blend of sodium benzoate with the skin conditioning agent levulinic acid for an excellent antimicrobial activity. Perfectly suitable for surfactant based products and tonics.	liquid	1.5 - 2.5%	4.0 - 6.0		Preservative, perfuming	✓✓	✓✓	✓	✓
Verstatil® BL non GMO	Aqua; Sodium Levulinate; Sodium Benzoate	Combines sodium benzoate and the skin conditioning agent levulinic acid, derived from non-GMO sources. Ideal for natural rinse off products and tonics. Suitable for emulsions, in combination with boosting agent.	liquid	1.5 - 2.5%	4.0 - 6.0		Preservative, perfuming	✓✓	✓✓	✓	✓
Verstatil® synacid	Aqua; Glycerin; Sodium Levulinate; Sodium Salicylate; Sodium Anisate	Synergistic blend of multifunctional organic acids and salicylic acid with broad antimicrobial activity and performance against special germs. Ideal for surfactant based and aqueous product concepts. Combination with booster for emulsions recommended.	liquid	2.0 - 3.0 %	4.0 - 6.0		Preservative, perfuming, masking	✓✓	✓✓	✓✓	✓
Verstatil® MBO	Methylpropanediol; Caprylyl Glycol; Benzoic Acid	The tailor-made raw material blend for efficient preservation of wet wipes. Liquid, easy to use blend for the economic formulation of wet wipe solutions. For application in emulsion or water based products.	liquid	0.8 - 1.2%	4.0 - 6.5		Preservative, wetting	✓✓	✓✓	✓✓	✓✓

NATURAL ORGANIC ACIDS

PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES				COSMETIC PROPERTIES	ANTIMICROBIAL EFFICACY*			
			form	dosage	pH-range	natural compliance		gram+	gram-	yeast	mold
Benzoic acid nat.	Benzoic Acid	This natural quality of benzoic acid is derived from cassia oil. It is ideal for 100% plant derived cosmetics. The known organic acid is efficient for the preservation of various product concepts with good activity against yeast and mold. It is recommended to combine with other antimicrobial substances for broadband protection.	powder	0.2 - 1.0 %	4.0 - 6.0		Preservative	✓	✓	✓✓	✓✓
Salicylic acid nat.	Salicylic Acid	This salicylic acid is derived from 100% natural wintergreen oil. The organic acid is known for its preservation efficacy. The activity against yeast and mold is very good. Recommended to combine with other organic acids for full antimicrobial protection.	powder	0.1 - 0.5 %	4.0 - 6.0		Preservative	✓	✓	✓✓	✓✓

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ANTIMICROBIAL SKIN ACTIVES & DEODORANTS



ANTIMICROBIAL EFFICACY BEYOND PRODUCT PROTECTION

Raw materials under the **drstraetmans** brand aim to protect and stabilize cosmetic formulations. Within the portfolio, the **dermosoft**® line is known for targeting the prevention of microbiological spoilage.






After years of experience working with our **dermosoft**® line for the protection of cosmetic formulations, we can proudly say that these products can do more. Some of the **dermosoft**® products show selected activity against specific microorganisms, which can cause skin disorders. This makes them valuable natural alternatives to control e.g. dandruff or athlete's foot, with comparable or even superior efficacy.

The combination with potent plant extracts allows us to expand the functionality of the products of this product line even more and to offer solutions for undesired body odor, impure and blemish prone skin.

The perfect partnership for **dermosoft**® regarding the control of body odor was found in the **TEGODEO**® and **TEGO**® **COSMO** line. This is why you can now find them along with their perfect match of our **dermosoft**® deodorant active ingredients. The combination of the different active mechanisms of these product lines can provide best efficacy.



ANTIMICROBIAL SKIN ACTIVES & DEODORANTS





PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES				APPLICATION*	
			form	dosage	natural compliance	blemished skin	foot care	scalp care
ANTIMICROBIAL SKIN ACTIVES								
dermosoft° decalact	Sodium Caproyl/Lauroyl Lactylate	Natural agent with antimicrobial properties. Highly effective against microorganisms causing skin disorders like dandruff, blemished skin and athlete's foot. Natural and mild replacement for triclosan and climbazole.	viscous liquid	0.5 - 2.0 %		+	++	++
dermosoft° decalact MB								
dermosoft° decalact liquid	Sodium Caproyl/Lauroyl Lactylate; Triethyl Citrate	Low viscous convenience blend based on dermosoft° decalact for easy handling with analogous antimicrobial properties.	liquid	0.7 - 1.2%		+	++	++
dermosoft° decalact liquid MB								
dermosoft° decalact sebum	Polyglyceryl-10 Laurate; Sodium Caproyl/Lauroyl Lactylate; Glycerin; Serenoa Serrulata Fruit Extract; Juniperus Communis Fruit Extract	Multitalented natural active ingredient blend fighting the signs of blemish prone skin. In-vivo proven efficacy for reduction of sebum production, redness and pimples at a low dosage. Suitable for certified natural cosmetics.	viscous liquid	2.0%		++		
dermosoft° decalact sebum MB								
dermosoft° GMC	Glyceryl Caprate	Selective efficacy against gram+ bacteria. Suitable for perfume-free concepts.	waxy solid	0.4 - 1.0%		+		
dermosoft° GMC MB								
dermosoft° DGMC	Polyglyceryl-2 Caprate	Selective efficacy against gram+ bacteria. Suitable for perfume-free concepts. Mild and skin friendly vegetable refatting agent. Sensory modifier and texturizer in emulsions. Viscosity regulating effect in surfactant based formulations, depending on surfactant base.	viscous liquid	0.3 - 0.5 %		+		
dermosoft° DGMC MB								

Legend: + = good | ++ = very good

* the given performance data is only for orientation. Results are depending on the specific formulation. For individual recommendations contact us for support.

detailed information concerning products, natural regulations, regulatory status and formulations are available on request

ANTIMICROBIAL SKIN ACTIVES & DEODORANTS

PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES			DEODORANT ACTIVITY*		
			form	dosage	natural compliance	odor inhibitor	antimicrobial	odor absorption
DEODORANT ACTIVES								
dermosoft® decalact deo	Sodium Caproyl/Lauroyl Lactylate; Triethyl Citrate; Salvia Officinalis (Sage) Oil	Natural deo active blend with antimicrobial properties. Highly effective against microorganisms causing body odor. In-vivo proven immediate and 24h deodorant activity. Easy to use.	liquid	0.3 - 1.0%		+	+	
dermosoft® decalact deo MB								
TEGO® COSMO P 813 MB	Polyglyceryl-3 Caprylate	A mild, vegetable based multifunctional co-emulsifier developed for use in deodorant formulations. Shows "intelligent" deodorant activity with extended 24 hours efficacy "on demand". Mild to the skin and easy to formulate.	liquid	0.2 - 2.0%		+	+	
TEGODEO® PY 88 G	Zinc Ricinoleate	Highly effective natural compliant deodorant active based on the odor absorption efficacy of the zinc salt of ricinoleic acid. Does not inhibit natural transpiration. Especially suitable for any emulsion type of deodorant formulations.	pellets	0.5 - 1.5%				+
TEGODEO® CW 90 E	Zinc Ricinoleate; Tetrahydroxypropyl Ethylenediamine; Laureth-3; Propylene Glycol	Easy-to-use deodorant active blend. Especially suitable for formulations with higher water content e.g. in pump sprays (up to 60% water) but also deo sticks and deo roll-on formulations. Highly effective blend based on the odor absorption efficacy of zinc ricinoleate.	liquid	1.5 - 3.0%				+
TEGODEO® HY 77	Zinc Ricinoleate; Triethanolamine; Dipropylene Glycol; Lactic Acid	Highly effective convenient deodorant active blend based on the zinc salt of ricinoleic acid. For deodorant formulations with a high alcohol content. Can be formulated into clear deo sprays (up to 30% water content), deo-sticks and roll-ons.	liquid	1.5 - 3.0%				+
dermofeel® TEC eco	Triethyl Citrate	Natural colourless and odorless oily liquid for use in deodorant formulations. Inhibits esterase based metabolism of sweat components causing malodor. Does not affect the natural skin flora.	liquid	1.0 - 5.0%		+		

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ANTIOXIDANTS & CHELATORS



ANTIOXIDANT PROTECTION OF SKIN AND COSMETIC PRODUCTS

Besides antimicrobial protection, cosmetic formulations also need protection against oxidation.

Particularly natural ingredients require an adequate antioxidant system.







Within our **dermofeel**® product line, we offer cosmetic additives able to effectively protect ingredients against oxidation. Using combinations of our natural mixed tocopherols and our natural chelating agents, a formulator can achieve the desired protection of his formulation.

Our extended range of natural tocopherols offers solutions for all applications, from targeted efficacy to multifunctional broadband by utilizing various non-GMO plant sources providing different tocopherol compositions.

Expanding the term "protection", our **dermofeel**® line also comprises antioxidants and Vitamin C ester for use in active skin care products as radical scavengers for the skin.





ANTIOXIDANTS & CHELATORS

PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES			
			form	assay	dosage	natural compliance
CHELATING AGENTS						
dermofeel® PA	Phytic Acid; Aqua	Natural chelating agent. Synergistic in combination with cosmetic antioxidants. Natural EDTA replacement.	liquid	50%	0.05 - 0.2%	
dermofeel® PA-3	Sodium Phytate; Aqua; Alcohol	Natural chelating agent. Synergistic in combination with cosmetic antioxidants. Natural EDTA replacement.	liquid	50%	0.05 - 0.2%	
dermofeel® PA-12	Sodium Phytate	Natural chelating agent. Synergistic in combination with cosmetic antioxidants. Natural EDTA replacement.	powder	96%	0.05 - 0.5%	
PRODUCT PROTECTION ANTIOXIDANTS						
dermofeel® Toco 50 non GMO	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	Antioxidant for cosmetic formulations. Natural composition of mixed tocopherols from certified non-GMO sources. Effective protection of oxidizable ingredients.	liquid	50%	0.05 - 1.0%	
dermofeel® Toco 70 non GMO	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	Antioxidant for cosmetic formulations. Natural composition of mixed tocopherols from certified non-GMO sources. Effective protection of oxidizable ingredients.	liquid	70%	0.05 - 1.0%	
NEW dermofeel® TocoBalance	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	Rapeseed based natural antioxidant with a balanced content of mixed tocopheroles from non-GMO sources. Effective protection of oxidizable ingredients with the added benefit of antioxidative activity for the skin.	liquid	70%	0.05 - 1.5%	

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ANTIOXIDANTS & CHELATORS

PRODUCT	INCI	CHARACTERISTICS	APPLICATION PROPERTIES			
			form	assay	dosage	natural compliance
SKIN PROTECTION ANTIOXIDANTS						
NEW dermofeel® TocoSkin	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	Sunflower based antioxidant with a high content of alpha-Tocopherol (vitamin E), suitable for certified natural cosmetics. Prevents the skin from damage caused by free radicals. With anti-inflammatory effect.	liquid	69%	0.05 - 1.0%	
dermofeel® E 74 A non GMO	Tocopheryl Acetate, Helianthus Annuus (Sunflower) Seed Oil	Stable vitamin E ester. Antioxidant - prevents the skin from damage caused by free radicals. With anti-inflammatory effect. Widely used as anti-aging active.	liquid	74%	0.5 - 2.0%	
dermofeel® E 67 non GMO	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	Plant derived alpha-Tocopherol (vitamin E). Antioxidant and radical scavenger in human skin.	liquid	67%	0.05 - 1.0%	
dermofeel® AP	Ascorbyl Palmitate	Vitamin C ester for use in highly active skin care products. Antioxidant - protects skin cells and extracellular matrix and stimulates collagen synthesis. Skin lightening by inhibition of melanin formation.	powder	>98%	0.1 - 1.0%	
dermofeel® AP MB						

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dermofeel® E 74 A non GMO	Tocopheryl Acetate, Helianthus Annuus (Sunflower) Seed Oil	34	
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dermofeel® Toco 70 non GMO	Tocopherol; Helianthus Annuus (Sunflower) Seed Oil	32	
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dermosoft® LP	Caprylyl Glycol; Glycerin; Glyceryl Caprylate; Phenylpropanol; Aqua	18	
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Verstatil® SL non GMO	Aqua; Sodium Levulinate; Potassium Sorbate	12, 20	
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