

THE MODERN ART OF BEAUTY



ONE OF NATURE'S MASTERPIECES:
hair follicles surrounded by epidermis





ARE YOU LOOKING FOR OUR PRODUCT CATALOGS?
 Do you need detailed documentation about our portfolio? Are you interested in inspiration for new formulations? Well, it is all always at your fingertips: you will find all data about our products, certificates, product samples, video training, and much more on our online platform intoBeauty®. intoBeauty® replaces all our printed product catalogs because it is simply so much better. It provides you with search and filter functions. It is always up-to-date. It is interactive. It is comprehensive. It is available anytime and anywhere. And it does not waste any paper. You can find more information about intoBeauty® and the registration process on page 33. But if you are already convinced, you will get access right here:



**EVERY PIXEL
 FULL OF
 INFORMATION**
 <<<<

**THE
 MODERN ART
 OF BEAUTY**
 EXHIBITION
 <<<<



04	TABLE OF CONTENTS
06	FACTS AND FIGURES
08	FOREWORD
10	SUSTAINABILITY
14	COMPANY PORTRAIT
16	ACTIVE INGREDIENTS
20	ACTIVE DELIVERY SYSTEMS
22	SKIN CARE, SUN CARE, COLOR COSMETICS
24	HAIR CARE AND CLEANSING
26	PRODUCT PROTECTION
30	TECH TOOLS
32	INTOBEAUTY®
34	PRODUCT SELECTION TOOL
36	CARETAIN® TOOLBOX
37	PERSONAL CARE PROTECTION GUIDE
38	SENSORY KALEIDOSCOPE
39	CERAMIDE KNOWLEDGE CENTER
40	FORMULATION HUB
42	SIMDERMA®
43	INNOVATION STUDIO
44	KNOWLEDGE TRANSFER

10,000
CUSTOMERS
GLOBALLY

> 800
PRODUCTS
> 150
EXPERTS
WORKING IN R&D

IN OUR PORTFOLIO
& TECHNICAL SUPPORT

20%
OF SALES ARE OF PRODUCTS
LAUNCHED IN THE LAST FIVE YEARS

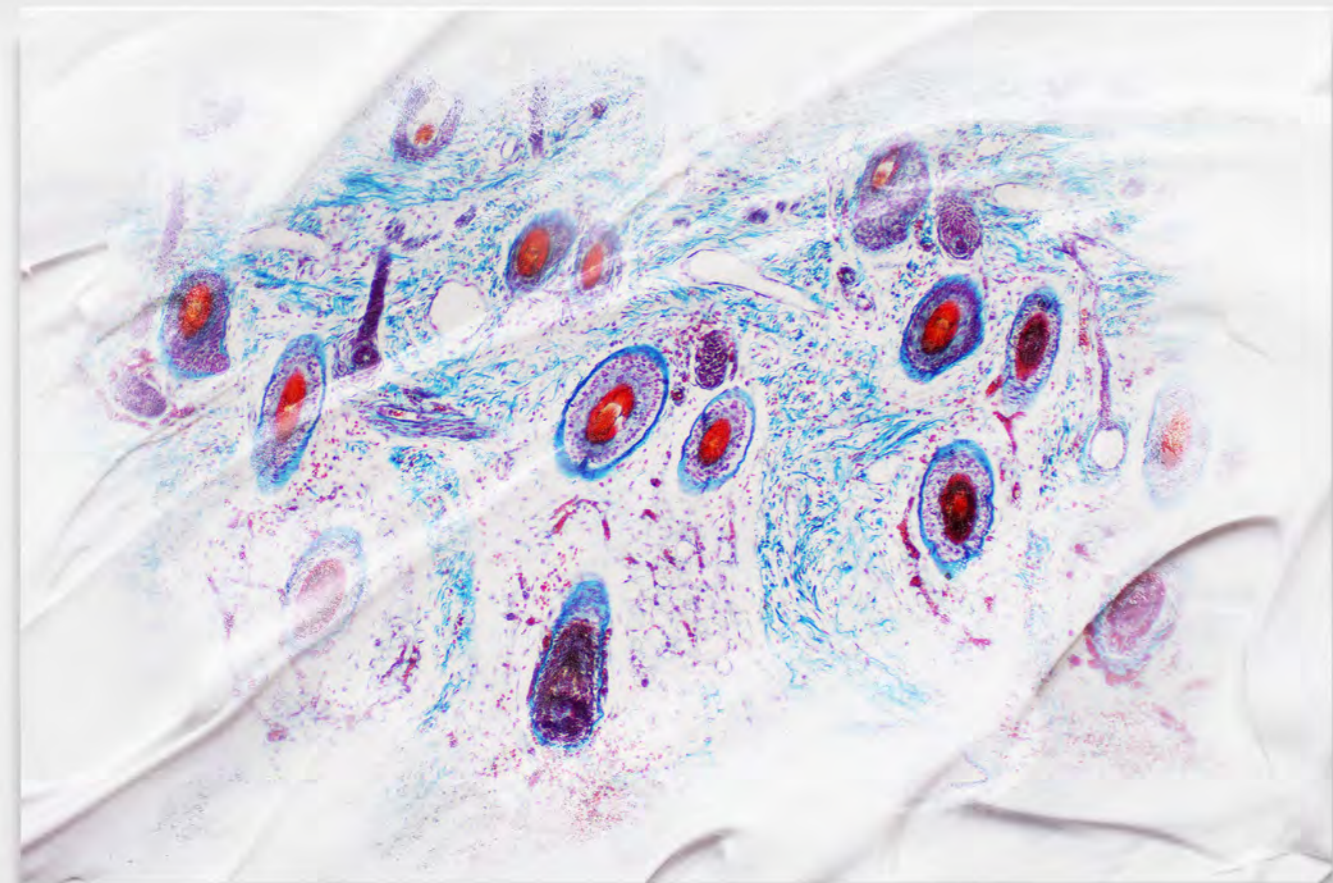
11+
PRODUCTION SITES WORLDWIDE

0-2%
COMPLAINT RATE
IN RELATION TO
PRODUCT QUALITY

>1,200
ACTIVE PATENTS AND
PATENT APPLICATIONS

#1
IN
BIOSURFACTANTS

>50%
OF OUR PORTFOLIO IS
BIODEGRADABLE



EACH INDIVIDUAL CELL IN THE BODY IS A MASTERPIECE



Every cell in the human body is a work of art, and works of art must be treated with care and respect. That is why we strive to develop and produce ingredients of the highest quality, with precision and purity.

Our beauty palette contains over 800 ingredients that we can mix into thousands of potential improvements for your beauty and personal care products: from creams to conditioners, deodor-

ants to lotions, and powders to shampoos. We combine ceramides with the right delivery systems. We match emulsifiers with suitable emollients. We pair biosurfactants with suitable preservation systems. Our goal is always to add value to your product and obtain an advantage for you in the market.

What we deliver is more than just ingredients. We deliver system solu-

tions. At our company, experts from every field come together to make your products more nourishing, sustainable, innovative, and easy to use. They create concepts and formulations that are precisely tailored to your objectives and production conditions.

This brochure aims to give you a brief introduction to Evonik as your sustainable specialties partner. Learn about our

product areas, our technologies, our expertise, and our passion on the following pages. As you read, we hope that you will find us to be just the right codeveloper for your next product.



NATURE IS THE BEST INSPIRATION FOR INNOVATION



Like many artists, we mainly search for inspiration in nature. It is where we find the raw materials and processes that we use to develop sustainable and innovative solutions for your next generation of products.

According to our sustainability ambitions, we follow a distinct portfolio transformation toward products enabling circularity and utmost efficacy of final products and applications. Alternative bio-based and more diverse feedstocks, and carbon optimized processes will continue to be intensively promoted to obtain a wide range of products with perceivable community

impact and consumer value. This portfolio transformation is driven by the strong, intrinsic motivation of our employees to create a positive environmental impact for the current and generations to come.

And with this portfolio transformation, we open new doors for you, too. Consumers are critical, especially in the beauty and personal care market. They demand products that respect people and the planet. With our portfolio, you can provide the products they desire. Products that are both sustainable AND innovative.

The market for natural cosmetics is growing rapidly, but our range of products for natural

cosmetics is growing at least as fast: from bio-surfactants to alternative product preservation and from vegan phytochemicals to organic extracts. Incidentally, we are already the leading European supplier of plant extracts with over 1,000 different plants in extraction – many of them certified organic and fair trade. We are sure that you will find something there for your next generation of products.

Are you interested in some facts about our sustainability efforts?




I What you get from Evonik isn't just raw materials. You get solutions. System solutions that are tailored to your product's personality and your production methods. To deliver on this promise, for you, our organization has built up dynamic flexibility and extensive expertise. Or, in one word, flexpertise.





A PORTRAIT OF EVONIK FOR THE BEAUTY AND PERSONAL CARE INDUSTRY



Our personal care experts are like sculptors. They sculpt picture-perfect bodies. Where they differ from sculptors, though, is in their working materials. Instead of marble and a chisel, they use market research, formulation knowledge, technical understanding, and a wide range of ingredients with proven efficacy.

I Evonik brings together international personal care experts in all fields: skin, hair, active ingredients, delivery systems, product protection, and much more. This diversity gives us the multidisciplinary creativity that we use to create new concepts, new formulations, and new products that become a market success. You can see this in our figures: 20% of our revenue comes from innovative products less than five years old. We have over 1,200 patents filed, which

makes us regulars at the patent office. You can take advantage of this creative potential! Challenge us with your product ideas or production problems. We have over 150 R&D and technical-support experts who are ready to give your next product that crucial added value, whether it be a prototype formulation or marketing support.

Try giving us a call! If you'd like some more reasons, have a read of the next few pages and you'll find a portrait of our departments.

ACTIVE INGREDIENTS

CERAMIDES
 SPHINGOLIPIDS
 ADVANCED BOTANICALS
 PLANT EXTRACTS
 CARE BIOTICS
 HYALURONIC ACID SPECIALTIES
 PEPTIDES
 AMINO ACIDS
 ALPHA HYDROXY ACIDS
 CHOLESTEROL SPECIALTIES
 ACTIVE DELIVERY SYSTEMS



ACTIVE INGREDIENTS

The personal care market is continuously developing, just like art. There are new movements and styles that are created around the world each year. At Evonik, we do not only seek to follow these movements, but also to have a key influence on them.

Our Actives team spends each day looking for new active ingredients to improve the skin's health: for new product promises, new molecules, and unused potential. We do research on ingredients that our clients can easily use in their products and on processes that reduce our clients' time to market.

Our solutions are always system solutions. Not only do we give you actives, but also all the functional ingredients that an active needs for it to have its intended effect in your product. Our complex

and multilayered working methods are structured in a way that lets us adapt our actives to your individual product idea. This comprehensive approach and our eagerness to try new things have made us one of the top-three manufacturers of sustainable specialties with functional ingredients for cosmetics.

And what can we say about quality? Well, Evonik does not just manufacture cosmetic actives. It has also been a preferred supplier of active pharmaceutical ingredients for more than 40 years. Offering extreme purity and constant premium quality is second nature for us.



AGE-DEFYING
BARRIER-STRENGTHENING
MOISTURIZING
NOURISHING
REBALANCING AND PURIFYING
SKIN DEFENSE
SKIN EVENNESS
SENSITIVE SKIN
HAIR CARE
SCALP VITALITY

ACTIVE INGREDIENTS

ACTIVE INGREDIENTS

You probably already know just how impressive our actives portfolio is. What is even more exciting, though, is that many more actives will be added to it in the future! We can make use of eight technological platforms simultaneously to ensure a constant flow of new products and enhancements.



CERAMIDES AND SPHINGOLIPIDS

We strengthen the skin's natural defense barrier with ceramides and sphingolipids made from renewable raw materials using biotechnology.

PEPTIDES AND AMINO ACIDS

We develop bioactive peptides and amino acids with scientifically verified effectiveness, giving your products benefits that are great for publicity.

ADVANCED BOTANICALS

We capture the power of nature in sustainable, customizable actives that are plant- or algae-based. Like antioxidants, for example.

DELIVERY SYSTEMS

When wrapped in a carrier system, active ingredients can penetrate deep into the skin to achieve a targeted effect there.

HYALURONIC-ACID SPECIALTIES

Hyaluronic acids made using biotech give your product rejuvenating and moisturizing effects.

CARE BIOTICS

We develop cosmetic products with a probiotic effect. They have a positive influence on the skin microbiome by stimulating the growth of specific healthy bacteria.

ALPHA HYDROXY ACIDS

Our next-generation AHAs and ABAs can offer consumers a choice of effective skin renewal that is still easy on the skin.

CHOLESTEROLS

With cholesterol, we focus on natural bioidentical molecules that are essential for healthy skin and that bring a rich and caring skin feel into cosmetic formulations.



ACTIVE DELIVERY SYSTEMS



ACTIVE DELIVERY SYSTEMS

Our delivery systems are the secret stars of the personal care industry. They are created to incorporate, integrate, protect, and stabilize the active ingredients within your products. It is this integration that makes cosmetic delivery systems so vitally important for the overall functionality and performance of your formulation – and your customer's satisfaction.

Without an effective delivery system, your active ingredient merely rests on the surface of the skin, where a large part of its effect is lost. Since many active ingredients are biologically unstable, our delivery systems protect and ensure active ingredients go past the outermost skin barrier and truly permeate skin cells, assuring the peak performance of the active ingredients, and ensuring active's safe and timely release. The positive side effect: thanks to this targeted release, you can reduce the amount of active ingredients you need.



Evonik offers you the widest and most advanced variety of delivery platforms for active ingredients that enhance skin penetration, bioavailability, stability, and ingredient performance. You can combine our delivery systems with various ingredients, such as vitamin C, retinol, cannabidiol or peptides, which opens doors for you to smarter and next-generation formulations.

Furthermore, delivery systems are excellent customizable technologies that allow us to adapt to your specific needs and goals, meaning that we can develop outstanding solutions that give you an exceptional position in the market together – each as unique as a work of art.

SOME OF EVONIK'S MASTERPIECES:
delivery systems for the transport and
protection of active ingredients



SKIN CARE SUN CARE COLOR COSMETICS

EMULSIFIERS
EMOLLIENTS
SENSORY ADDITIVES
STABILIZERS



SKIN CARE, SUN CARE, COLOR COSMETICS

We view ourselves as an outstanding partner.

An expert at your level to help with anything related to skin care. What gives us this ability?

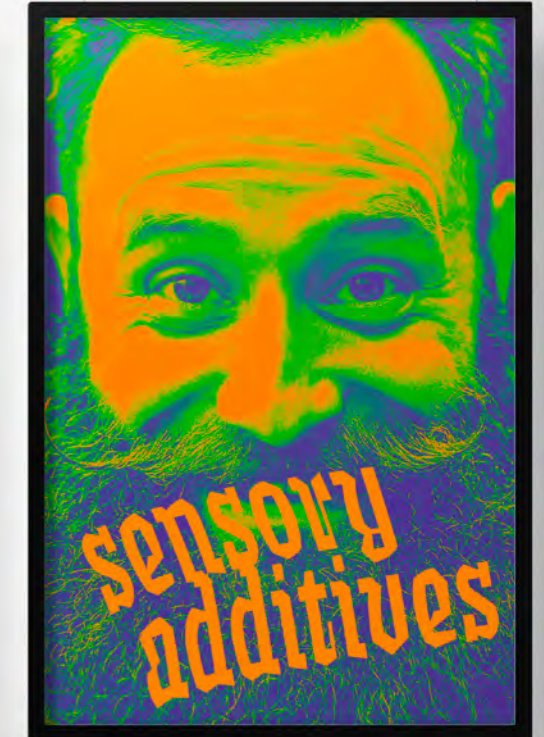
Firstly, our product portfolio. It is as expansive as a painter's color palette. We have access to everything that we need to give your product its very own style. Something with its very own texture and very own benefits, all while leaving a minimal ecological footprint.

Secondly, our ability comes from our extensive global expertise in formulations. We know how we need to combine ingredients to meet your performance expectations. What's more, we enjoy new solutions, which means we are always in touch with the latest developments. From our global market data and regional exchanges, we develop trend-inspired concepts so that we can regularly inspire our clients with new and trendy formulations.



Thirdly, we have broad-based, expert knowledge in an incredibly wide variety of disciplines. We are more than just chemists. We do more than just look at a product's sensory properties. With us, you can discuss a product's physical aspects, including its surface tension, polarity, or interactions between different substance categories such as emollients and UV filters.

What really makes a partner outstanding is that they listen. And we listen. Your goals are our goals and we are by your side for all decision-making steps. We love hearing from you.



HAIR CARE AND CLEANSING

CONDITIONING AGENTS
BIOSURFACTANTS
SURFACTANTS
RHEOLOGICAL ADDITIVES
PEARLIZING AGENTS
HYDROPHILIC EMOLLIENTS
SOLUBILIZERS

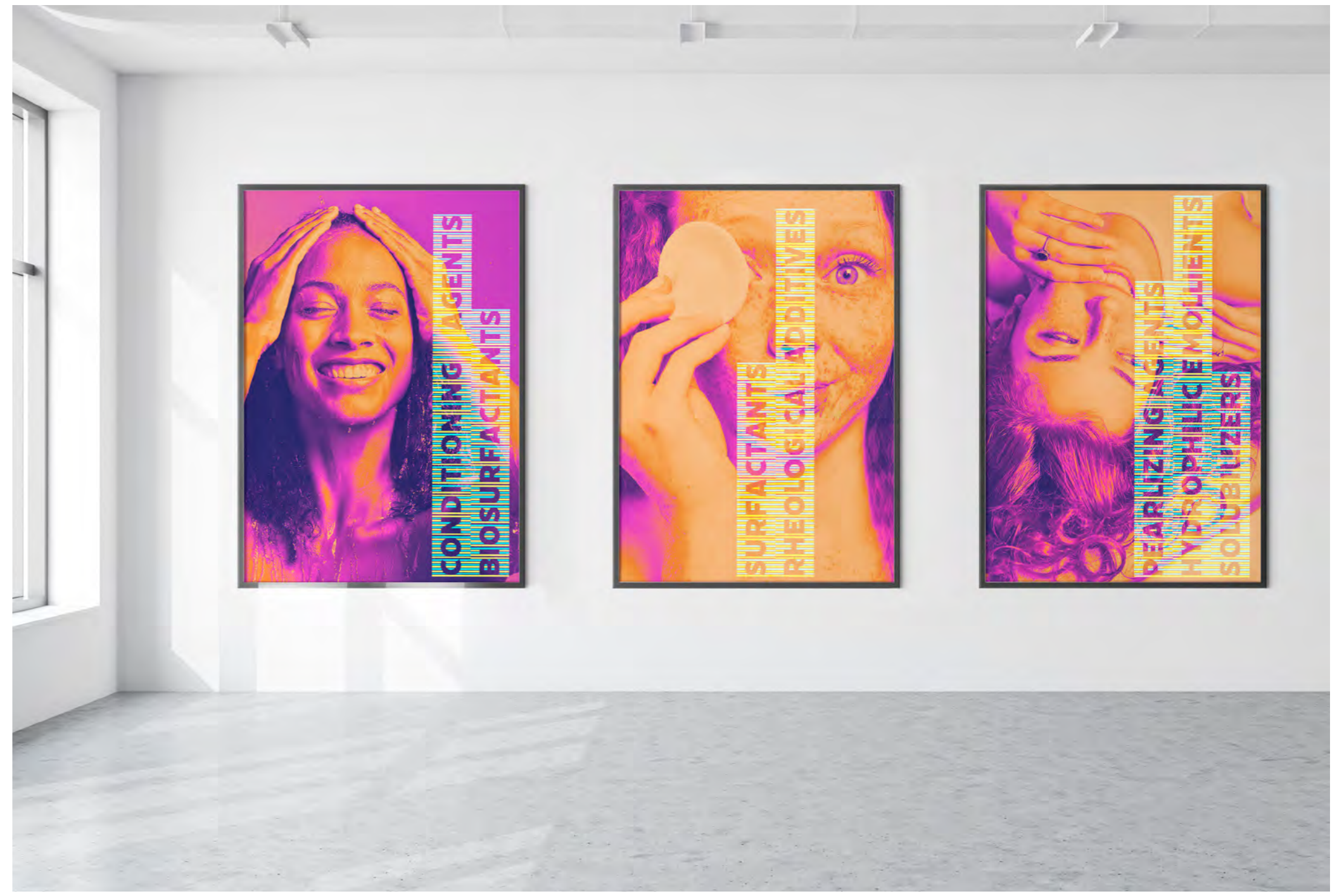


HAIR CARE AND CLEANSING

The human body is a work of art, and works of art need to be cleaned and cared for carefully. That is why we create hair care and cleansing ingredients that are very mild despite their high effectiveness.

□ We do not stop at this challenge, either. Our hair care and cleansing experts are specialized in products that are major challenges for formulators, like multifunctional bio-based ingredients that meet the requirements of natural cosmetics without compromising on performance. So that future organic shampoos foam properly and cleansing products leave no traces in the environment.

We reconceptualize existing products in partnership with you with the aim of inventing something completely new. Imagine, for example, a remoisturizing conditioner as a powdered concentrate. Or what about solid micellar water? Or a leave-in shampoo that glows under water? Join us and we will test out all the things that are possible together. Once your new product has made it to market, our global experience can help you adapt it to different skin and hair types anywhere from Asia to South America.



MULTIFUNCTIONAL ANTIMICROBIALS
PRESERVATIVE BLENDS
ANTIOXIDANTS
CHELATING AGENTS
ANTIMICROBIAL SKIN ACTIVES
DEODORANTS

PRODUCT PROTECTION



PRODUCT PROTECTION

If you want to preserve a painting properly, you speak to a conservator.

If you want to preserve a personal care product properly, you speak to us. Evonik Dr. Straetmans is one of the founding forces behind alternative preservation methods and has over 30 years of market experience.

We offer comprehensive protection in two categories. Firstly, we protect your products against microbial contamination. We do this primarily with our multifunctional antimicrobials from the dermosoft® family. Secondly, we protect products against oxidation, especially ones made of natural raw materials. We do this primarily with our antioxidants from the dermofeel® family. But, of course, our classic preservative blends and our chelating agents are a useful complement for long-lasting product protection.

Beyond product protection, we also offer a testing service for microbiological challenge tests under Cosmetics Regulation 1223/2009/EC. We store all results in our database, which means our recommendations are based on a trove of data featuring more than 20,000 records.

Here's a fun fact in conclusion: some of our antimicrobials are too versatile to be used solely for product protection. They are even used in deodorants, where they deactivate the specific microorganisms that are responsible for body odor.



Innovation is a core part of our business. Innovation is also crucial for our clients. It lets them stand out in the enormous market for personal care.

On the other hand, developing new products is time-consuming and expensive. For this reason, we provide our clients with numerous tech tools that simplify and accelerate processes for innovation.

SKIN INNOVATION



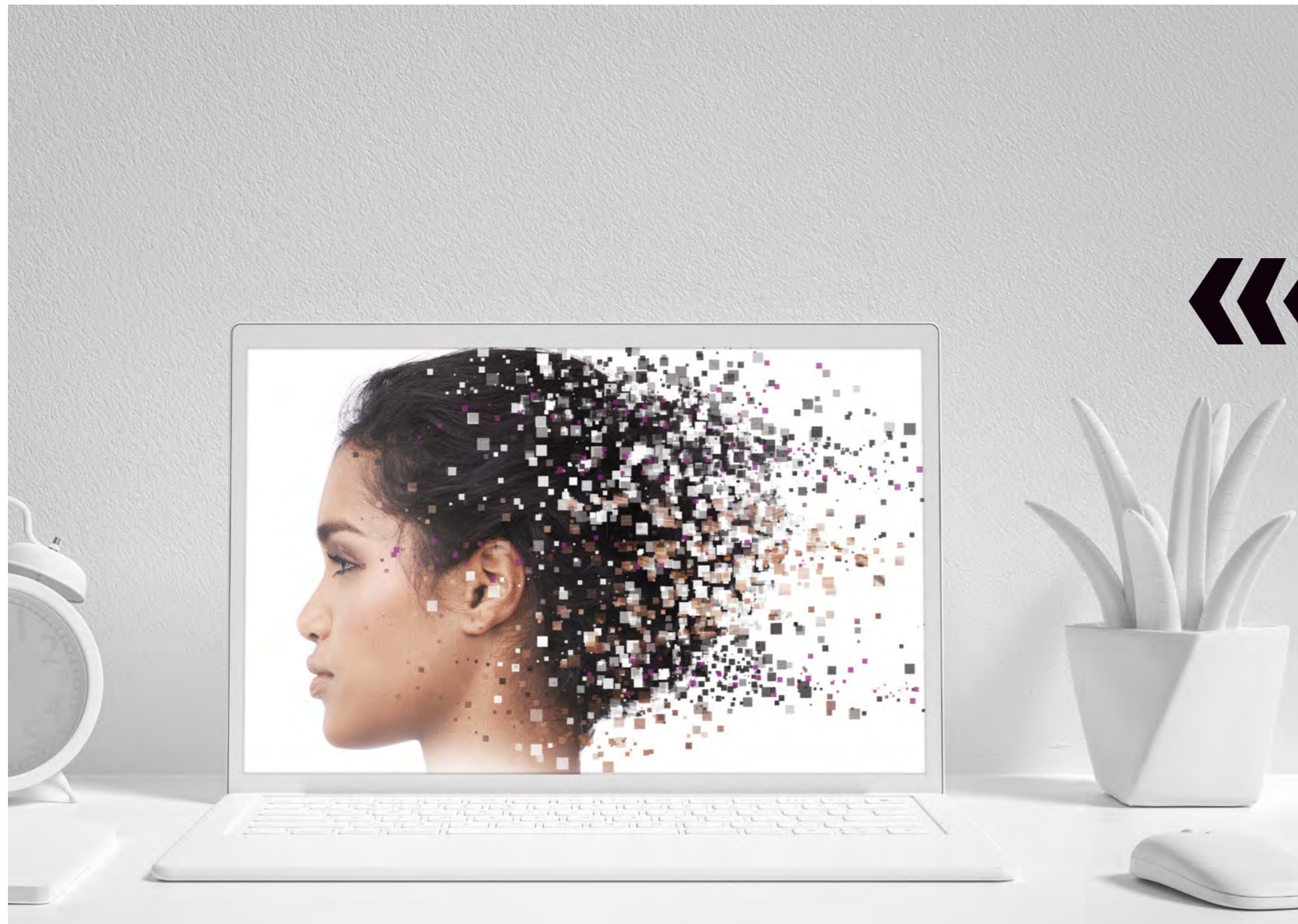


ONE OF NATURE'S MASTERPIECES:
touch corpuscles in skin tissue

ALWAYS STATE OF THE ART: OUR TECHNOLOGY TOOLS

Artists take great care when mixing their colors so that their painting produces a very specific effect. Similarly, manufacturers of personal care products try to produce a very specific effect with their creams and lotions. That is why they take great care when combining their raw materials. Both actions require experience and, most importantly, a lot of time.

□ We provide you with a whole array of pioneering digital and tech tools to reduce your development time and expenses when developing and enhancing products. Using them shortens and smooths out the journey to a product with a targeted effect and targeted sensation. Here we offer you a small look at a few of these tools.



YOU WILL FIND OUR COMPLETE OEUVRE ON INTOBEAUTY®

intoBeauty® is the main research portal for the development of your product. We use it to make ourselves completely transparent, as it gives you open access to product information, market data, certificates, product samples, video training, and much more.

□ So, intoBeauty® is the knowledge source for your formulations and always up to date. And what's more, intoBeauty® allows you to use high-quality technology tools that will shorten and simplify your time to market. There is just one small step left to gain access to intoBeauty®: you have to fill out our registration form. Once your registration is verified and your account is activated, you can browse our treasure trove of data and tools. Get access to intoBeauty® here:



INTOBEAUTY®: A KALEIDOSCOPE OF POSSIBILITIES



- ≡ *On intoBeauty®, you will find detailed product information and documentation about our product portfolio quickly and efficiently.*
- ≡ *Browse insights into the latest market trends and new formulation concepts.*
- ≡ *Download additional useful information such as presentations, brochures, videos, or certifications ranging from halal to RSPO.*
- ≡ *Improve your efficiency with our tech tools, like our Sensory Kaleidoscope, Ceramide Knowledge Center, or CAREtain® Toolbox, for example.*
- ≡ *Order samples for your laboratory testing.*



**PRODUCT SELECTION TOOL
FOR DIVING INTO OUR PORTFOLIO**



- ≡ *The Product Selection Tool helps you to find the right product for your requirements.*
- ≡ *Filter our portfolio by sustainability, market segments, pH value, registration status in different countries, application, intended consumer benefit, sensory properties, chemistry, compatibility, and many more.*
- ≡ *The Product Selection Tool is part of intoBeauty®. Get your access here:*



ONE OF NATURE'S MASTERPIECES:
human skin tissue

CARETAIN® TOOLBOX FOR TRANSPARENCY ON SUSTAINABILITY CRITERIA



- ≡ *The CAREtain® Toolbox is your dynamic information system that helps you to develop your own eco-optimized products.*
- ≡ *The toolbox maps the environmental impact that our ingredients have, from procurement and mixing to final application.*
- ≡ *It includes such categories as RSPO certification, biodegradability, COSMOS status, origin, vegan, and halal.*
- ≡ *Our CAREtain® Toolbox is part of intoBeauty®. Get your access here:*



PERSONAL CARE PROTECTION GUIDE FOR PRESERVATION SYSTEMS



- ≡ *You'll find the right antimicrobial protection for your product in our Personal Care Protection Guide.*
- ≡ *Describe your formulation type in just a few steps and the system will recommend you a preservative combination tailored to it.*
- ≡ *All recommended combinations have proved their performance in challenge testing.*
- ≡ *The Personal Care Protection Guide is part of intoBeauty®. Get your access here:*





SENSORY KALEIDOSCOPE FOR PERFECT-FEELING SKIN



- ≡ *Our Sensory Kaleidoscope is an interactive tool for creating formulas with targeted sensory properties.*
- ≡ *It graphically displays how the sensation of a formulation changes when you add individual emulsifiers or when you change the formulation composition.*
- ≡ *It dynamically illustrates how a formulation feels on the skin during and after application.*
- ≡ *Sensory Kaleidoscope is part of intoBeauty®. Get your access here:*

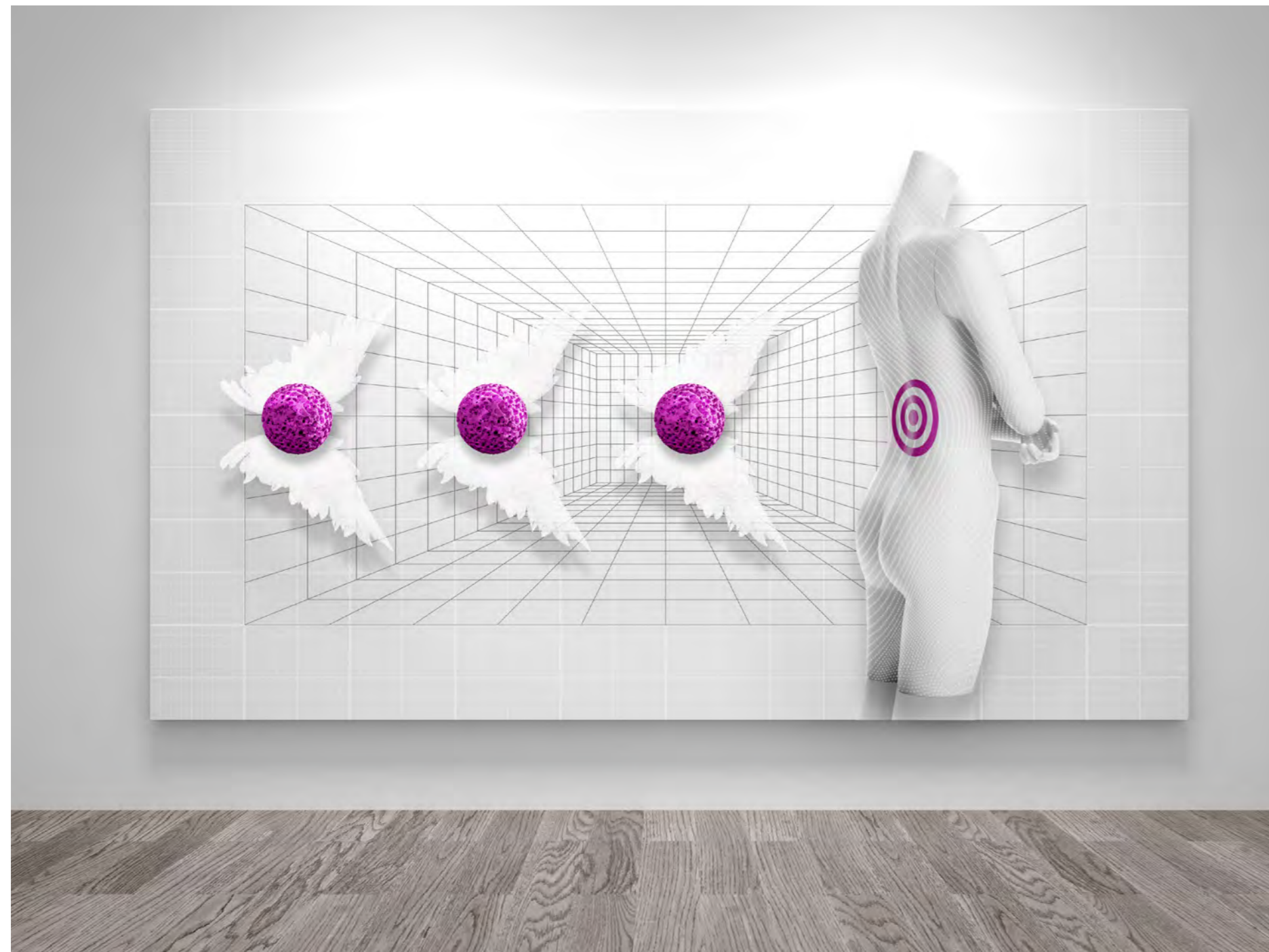


CERAMIDE KNOWLEDGE CENTER FOR FORMULATING WITH CERAMIDES



- ≡ *In our Ceramide Knowledge Center, you will find precise practical knowledge for the processing of ceramides: from the proper processing temperature to complete formulations.*
- ≡ *Key topics include: solubility, O/W and W/O emulsions, processing temperature, and clear formulations.*
- ≡ *Our Ceramide Knowledge Center is part of intoBeauty®. Get your access here:*





FORMULATION HUB FOR DELIVERY SYSTEMS



- ≡ *Formulation Hub is a web platform that offers all the information about our delivery-system portfolio in one place.*
- ≡ *At its heart is a database of customizable formulations where our delivery systems have been applied for current market trends.*
- ≡ *Complementary information, including presentations, brochures, catalogs, and data sheets, is available for download.*
- ≡ *And yes, we offer product samples.*
- ≡ *Are you interested in learning more about Formulation Hub? Get answers here:*



SIMDERMA® FOR EVALUATING EFFICACY

- ▣ *SimDerma® is a screening system that includes multiple laboratory assays.*
- ▣ *The main objective of SimDerma® is to meet the needs and trends of the cosmetics market based on scientific evidences. Therefore, SimDerma® has been developed to identify novel biological activities for cosmetic and skin care ingredients.*
- ▣ *Our SimDerma® platform offers a behavior overview of ingredients and extracts, speeding up the time to market for cosmetic product development.*
- ▣ *SimDerma® also offers you the possibility to combine ingredients looking for synergistic effects among compounds in final blends.*
- ▣ *Are you interested in using SimDerma®? Feel free to contact us: simderma@evonik.com.*

INNOVATION STUDIO FOR INGREDIENT COMBINATIONS

- ▣ *Innovation Studio is a digital tool that helps to identify potential combinations of active ingredients.*
- ▣ *With our Innovation Studio, you have access to a platform that integrates data obtained by our claim substantiation capabilities such as in vivo/in vitro claim substantiation as well as from our SimDerma® screening platform.*
- ▣ *Identify potential novel combinations of individual ingredients based on the SimDerma® screening results.*
- ▣ *Download product-specific documentation such as screening reports, including information, results, and references if available.*
- ▣ *Try our Ingredient Combinatorial System. This system allows you to obtain a combination applying an algorithm that optimizes the search of the best ingredients, taking into account the selected restrictions.*
- ▣ *Get your access here:*





WORKSHOPS AND SEMINARS

Even with all this technological progress, the most-important tech tool is, and has always been, people. Over 150 R&D and technical-support experts work at Evonik for the beauty and personal care industry. Together, they form an enormous pool of knowledge that we draw creativity from for new solutions.

When we generate knowledge, we do not keep it to ourselves. We love sharing it! It takes a dialog with many experts from many different disciplines to keep an innovation engine going.

Consider yourself invited and welcome to sign up for our regular exchange of expertise. You can find upcoming dates on intoBeauty®:

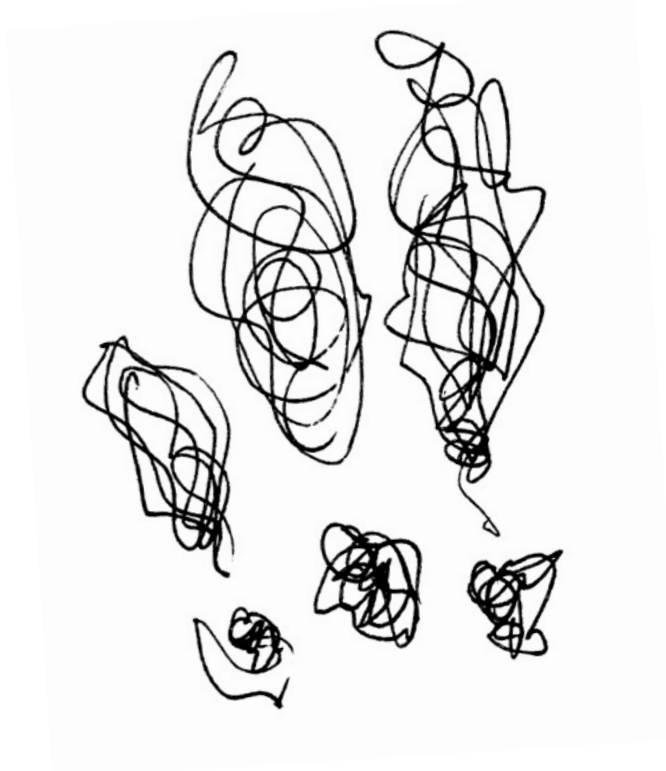


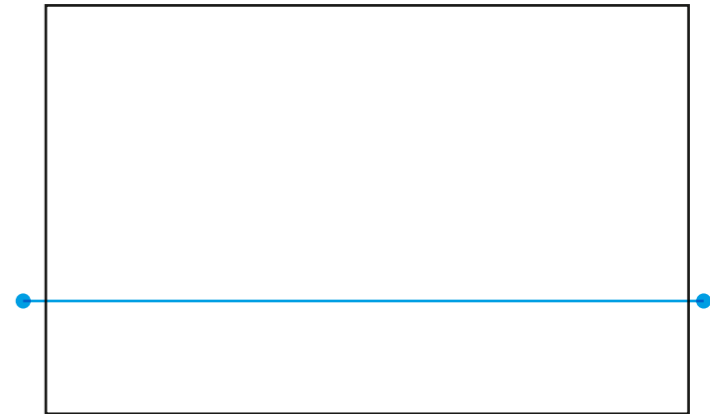
EVONIK ACADEMY OF COSMETIC SCIENCE

Come meet us virtually! Our experts will train you on all aspects referring to Evonik cosmetics ingredients for skin care, hair care and cleansing, product protection, and active ingredients. The focus of our webinars is on holistic solutions putting a strong emphasis on sustainability and naturalness. We give live demonstrations of how selected formulations are produced in the lab and test samples with you that are sent to our training sessions beforehand.

SCIENCE CAMP

At our Science Camp for kids, we invite the scientists of the future to explore chemistry in small experiments. While it might be a bit late for you to join, you are still welcome to find out more about it.







Evonik Operations GmbH

Nutrition & Care / Care Solutions

personal-care@evonik.com

www.evonik.com/personal-care

Disclaimer: This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik Operations GmbH assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. Evonik Operations GmbH expressly disclaims any representations and warranties of any kind, whether express or implied, as to

the accuracy, completeness, non-infringement, merchantability, and/or fitness for a particular purpose (even if Evonik Operations GmbH is aware of such purpose) with respect to any information and recommendations provided. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik Operations GmbH reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

