



Medical Skin Care Spotlight

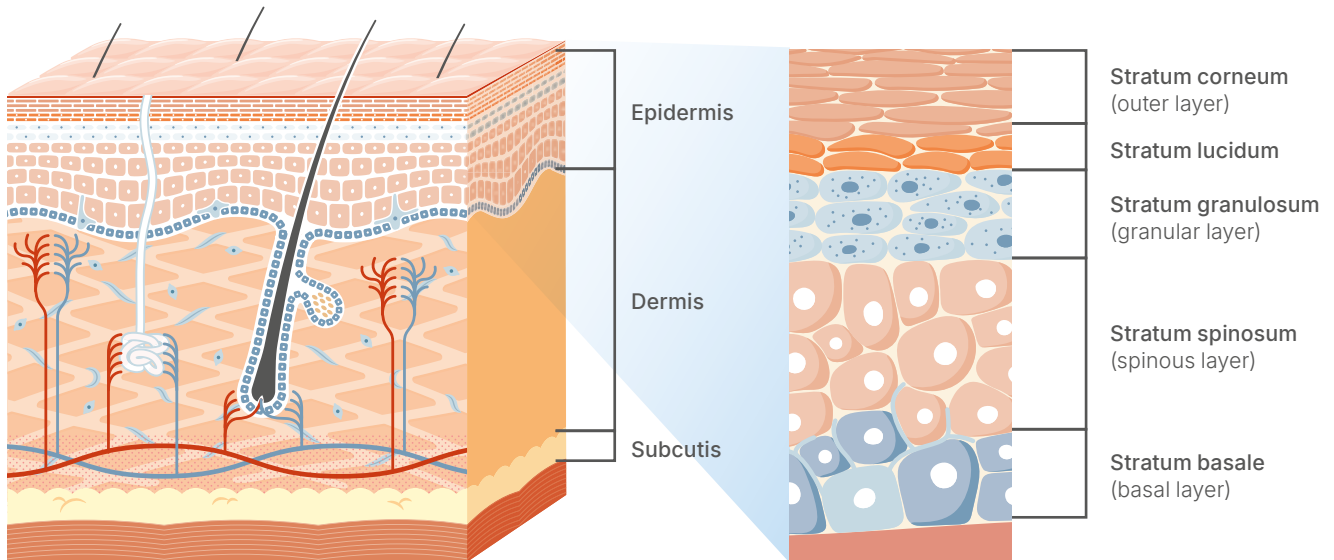
Skin and SkinCare

With an area of around 2m² the skin is the largest organ of the human body. It performs numerous functions to maintain health and well-being. Besides its important role as a protective cover, this metabolic and sensory organ is also required for thermoregulation as well as water and electrolyte balance.

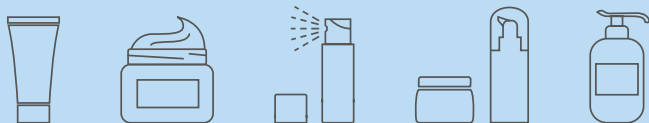
The skin cannot be replaced, so it is essential to protect and nourish it to retain its natural functions.

The skin is made of 3 basic layers: the epidermis, the dermis and the subcutis:

Layers of the epidermis



Biesterfeld 
Lab and Innovation Centre



Lab & Innovation Centre

In our Lab and Innovation Centre in Hamburg we have the possibility to support the development of tailored solutions together with our customers. We can serve different example formulations which can be a good starting point for your project. Through the addition of additives from our wide ranging portfolio also existing formulations can be enhanced.

If you have an idea for a project get in touch:
Pharma@biesterfeld.com



Consumers are increasingly demanding a higher quality of life and are taking charge of their health and well-being. At the same time, regulations on consumer healthcare products are continually evolving to ensure safety and minimize public risk.

With our topical portfolio including various raw materials from our trusted suppliers we offer highly effective solutions for treating and preventing different skin conditions.

DuPont™ Liveo™

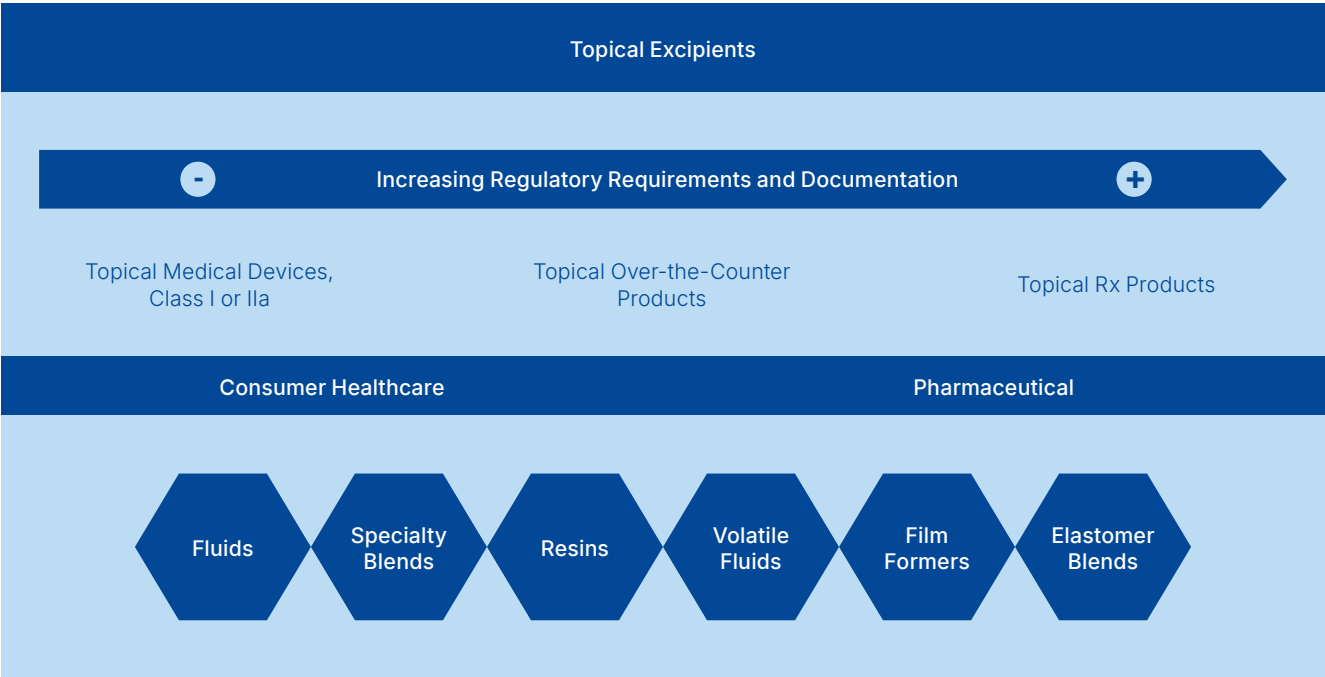
As a global leader in silicones with more than 70 years of experience in the healthcare industry, DuPont offers solutions, expertise, quality and compliance support for your topical applications:

DuPont™ Liveo™ Topical Pharmaceutical Excipient product range is composed of silicone-based materials that allow you to formulate innovative solutions for consumer healthcare application and for the efficient delivery of your Active Pharmaceutical Ingredients (API) in topical forms like creams, lotions, gels, ointments, sprays or sticks.

DuPont silicone-based excipients enable unique and aesthetically appealing formulations, making your pharmaceutical finished dosage forms easier to apply and more pleasant to use, thereby helping to increase patient compliance.



- Silicone / Silicone Blends:**
- › Wash-off resistance
 - › Skin protection
 - › Dry, smooth feel
 - › Non-greasy / non-stinging
 - › High spreadability
 - › Controlled release
 - › Long-lasting / substantivity



Nouryon

Nouryon manufactures a range of products for applications in the pharmaceutical industry. It works according to the highest international standards and continuously carries out product testing to ensure these standards are met.

Today, with sustainability and green values being the key drivers in product innovations, CEKOL® cellulose gum is a preferred choice as a bio-based and biodegradable hydrocolloid. By selecting the right raw materials and adjusting the production process steps, it is possible to tailor the functionality of specific CEKOL® grades to different applications. CEKOL® cellulose gum is a water-soluble polymer derived from wood or cotton cellulose and produced to minimum 99.5% purity. Products manufactured from wood cellulose satisfy GMO-free requirements. The product hydrates and dissolves readily in hot and cold water. By choosing the right CEKOL® type, the formulator can achieve the desired rheology for any aqueous system, including suspensions and emulsions. Besides controlling the rheology, CEKOL® cellulose gum is known for its excellent water-retaining and film-forming capacity.



Nouryon

Cekol:

- › Rheology modification
- › Film-forming
- › Water retention
- › Surface activity
- › EP/USP compliance

Grillo Zinkoxid GmbH

With over 100 years of experience, Grillo Zinkoxid GmbH is one of the market leaders in developing and producing zinc oxides in different qualities. As a traditional and family-owned company, Grillo offers customer-focused solutions for various uses of zinc oxides. The products are ideally suited for providing end-to-end service for customers focusing on areas of treatment such as skin and wounds.

To protect consumers, it is important to apply the most stringent standards in the production of medications. Ultra-pure, so-called pharmaceutical zinc oxide is an important additive for many medications used in human medicine.

The zinc oxide qualities from Grillo Zinkoxid GmbH are manufactured by the indirect process (French process) according to EU-GMP Guideline Part II.

They can be used in numerous pharmaceutical and cosmetic applications such as skin creams, pastes, wound dressings and sprays.



GRILLO

Zinc Oxide:

- › Antiseptic
- › Antibacterial
- › Antimicrobial
- › Anti-inflammatory
- › Wound healing
- › Allergy-friendly
- › EP-/USP-compliance/
BP-compliance

Avesta

Avesta offers high-quality macrogols for pharmaceutical and topical applications. Macrogols, also known as polyethylene glycols (PEGs), are versatile excipients widely used in semisolid formulations thanks to their excellent solubility, compatibility and functionality.

Depending on the molecular weight, macrogols can act as solvents, consistency agents, ointment bases or moisture-retaining components in creams, gels, ointments and other dermatological formulations. They help to improve texture, spreadability and stability while supporting the efficient incorporation of active ingredients.

With their well-established use in pharmaceutical applications, Avesta macrogols are a reliable choice for the development of effective and patient-friendly skincare products.



Macrogol:

- › Moisture retention
- › Solubility enhancement
- › Texture improvement
- › Ointment base
- › Spreadability enhancement

Tereos

Tereos offers a broad range of pharmaceutical-grade products for topical and skincare applications. With strong expertise in plant-based ingredients and pharmaceutical excipients, Tereos supports the development of high-performance formulations designed to meet both regulatory and market requirements.

The pharma portfolio includes product groups such as sugar and sorbitol, which can contribute to formulation stability, skin feel, moisture management and product performance. These ingredients are suitable for a wide variety of applications such as creams, lotions, gels and other topical dosage forms.

Combining quality, reliability and a strong commitment to sustainability, Tereos pharma products provide valuable solutions for innovative skincare and pharmaceutical formulations.



Sorbitol:

- › Moisturising effect
- › Exfoliating effect
- › Sensory enhancement
- › Texture control

Contact

For more information feel free to reach to the Healthcare experts at Biesterfeld at

pharma@biesterfeld.com

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