



# Oil Components

**drstraetmans**  
intelligence behind beauty



## THE BASIS FOR OPTIMUM PERFORMANCE

Oil components are the heart of a cosmetic composition, strongly influencing the skin feel and performance of the whole product. They are easily perceived by the user and together with the perfume are likely to decide about the first and probably remaining impression of the product. This is the reason why it is so important for cosmetic developers to carefully choose the oil components for the formulation. Many oils with different characteristics are available and it is crucial to balance the desired skin feel and the functionality that is to be achieved.

Natural oil components are in the focus of many cosmetic manufacturers and there are many native oils and solid fatty materials for cosmetic formulations. These natural oils have the advantage to occur in the metabolic pathways of every living cell in our body. When they are absorbed into deeper layers of the skin, they will be built into biological structures or simply be digested by the cell's enzymes. On the other hand native oils sometimes are susceptible to oxidative deterioration and they often lack certain functionalities to play the role of functional materials in cosmetic formulations. This is why semi-synthetic or fully synthetic oil components are often preferred for specific applications.

**Skin feel** is certainly a subjective criterion that will influence the general product perception by customers. The tactile properties of a cosmetic formulation are commonly mediated by the employed oil components. Their spreadability and other attributes like polarity or viscosity is responsible for the subjective sensation of smoothness, permeability or greasiness to the customer. Ideally a mixture of different basic oil components is employed to create a broad spreading cascade, giving the best consumer acceptance.

Within the **dermofeel**<sup>®</sup> range, Dr. Straetmans offers a series of functional oil components with different spreadability which can furnish your product with an elegant sensoric profile. Also the viscosity shall be in a range that is accepted by the customer. Therefore the strong increase of viscosity and poor spreadability of products with high pigment load are bothersome for the development of sunscreens. In these occasions it may be helpful to use oil components that can carry a high pigment load, as it is required for compositions with high SPF. On the other hand the resulting viscosity shall not increase to a level that will have a negative impact on the convenience of the product. For sun protection **dermofeel**<sup>®</sup> BGC (Butylene Glycol Dicaprate/Dicaprylate), **dermofeel**<sup>®</sup> TC-7 (Triheptanoin) and **dermofeel**<sup>®</sup> MCT (Tricaprylin) are the ideal candidates. A newly developed natural oil component with excellent sensorial properties is **dermofeel**<sup>®</sup> sensolv (Isoamyl Laurate). It is produced from 100% regrowing plant material and is a very competitive option for all kinds of high quality suncare products and colour cosmetics.

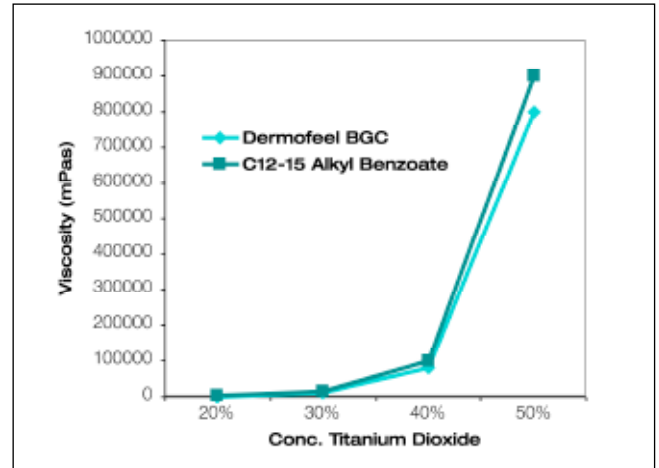


Fig. 1: Comparison of viscosity buildup with different concentrations of Titanium Dioxide using different oil components.

**Functionality** is among further characteristics for oil components one that is not directly perceived by consumers, but improves the performance of the composition. Most formulators are well aware of limitations, when dispersing pigments, be it in liquid emulsions or solid formulations. Also here polarity and spreadability are decisive factors for the performance of the cosmetic product. Today with changing regulations on sunscreens, the requirements for the oil components as solvents for different kinds of filters are rising.

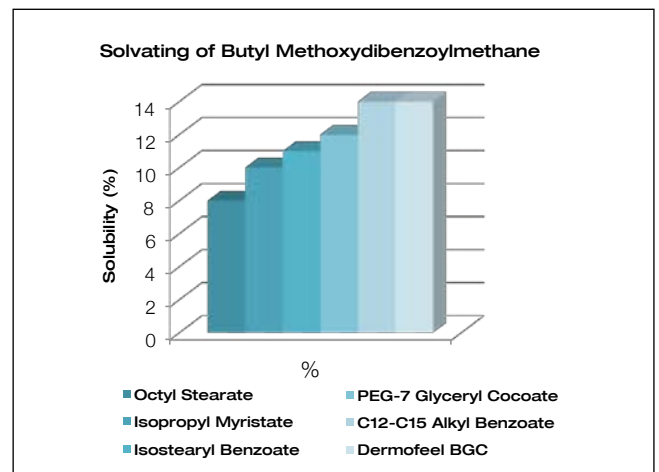


Fig. 2: As one of the most common oil components for sunscreens, Dermofeel BGC shows optimum performance in solvating UV-filters.

Within the **dermofeel**<sup>®</sup> range we offer specialized functional oil components with excellent solvating power for the most commonly used UV-filters combined with an elegant, non-greasy skin feeling. And that explains why our **dermofeel**<sup>®</sup> BGC is an indispensable oil component in some of the largest sunscreen products worldwide, while **dermofeel**<sup>®</sup> sensolv, **dermofeel**<sup>®</sup> TC-7 and **dermofeel**<sup>®</sup> MCT can also be used for natural cosmetics.

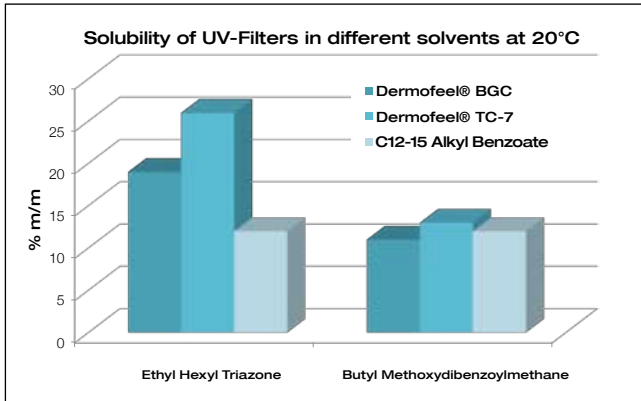


Fig. 3: Dermofeel BGC and Dermofeel TC 7 show better solubility for important sunscreen pigments than standard oil components like C 12-15 Alkyl Benzoate.

**Colours** create a whole world of beauty, freshness and well being. Our functional oil components help to formulate and deliver colours to the skin. And once they are in place they shall provide a persistent effect. Hence, our **dermofeel®** GTI (Glyceryl Triisostearate) and **dermofeel®** GDI (Glyceryl

Triisostearate) along with their great dispersing ability produce a resistant, flexible and long lasting film on the skin. Their capacity to disperse coloured particles and to create a smooth but persistent film on the skin makes them ideal oil components for products like long lasting lipsticks or make-ups but also for sun care and self tanning products. Since **dermofeel®** GTI is non migrating, it is of particular interest for the production of colour cosmetics at the eye zone.

And, **naturally**, we also offer highly polar oil components with excellent dispersing properties for a large variety of pigments, produced from vegetable building blocks. Our **dermofeel®** sensolv, **dermofeel®** MCT and **dermofeel®** TC-7 are the natural alternative, when high performance dispersing power is wanted for naturally oriented product concepts. Thanks to their polarity **dermofeel®** TC-7 and MCT are also used in natural cosmetics for the dispersion of mineral pigments, both in decorative products as well as in sunscreens. These raw materials are in full accordance with natural cosmetic standards, produced using 100% renewable resources, fully biologically degradable and ECOCERT registered.

Our Oil Components	INCI	Properties
<b>dermofeel®</b> BGC	Butylene Glycol Dicaprylate / Dicaprate	Highly spreading oil component
<b>dermofeel®</b> TC-7	Triheptanoin	Highly spreading oil component of natural origin
<b>dermofeel®</b> MCT	Tricaprylin	Highly spreading oil component of natural origin
<b>dermofeel®</b> GDI	Glyceryl Diisostearate	Medium spreading oil component
<b>dermofeel®</b> GTI	Triisostearin	Highly viscous oil
<b>dermofeel®</b> sensolv	Isoamyl Laurate	Highly spreading, with elegant skin feeling for suncare and baby care. Natural origin

# OUR REPRESENTATIVES ABROAD

## Europe

### Benelux

Jan van Laarhoven-Waalwijk b.v.  
E-Mail: laarhoven@planet.nl

### Bulgaria

Biesterfeld Pro Specialty Chemicals  
E-Mail: pavel.makedonski@biesterfeldpro.com  
www.biesterfeldpro.com

### Croatia

Biesterfeld Spezialchemie d.o.o.  
E-Mail: gordana.peric@biesterfeld.hr  
www.biesterfeld.hr

### Czech Republic

Biesterfeld Silcom s.r.o.  
E-Mail: terezie.sestakova@bisi.cz  
www.bisi.cz

### Denmark/Iceland/Norway

Bionord A/S  
E-Mail: info@bionord.dk  
www.bionord.dk

### France

Lucas Meyer Cosmetics S.A.  
E-Mail: info@lmc cosmetics.fr  
www.lmc cosmetics.fr

### Great Britain

Gemro Products Ltd.  
E-Mail: stephen.blech@gemroproducts.com  
www.gemroproducts.com

### Greece

Cellco Chemicals Ltd.  
E-Mail: paraskevopoulos@cellco.gr

### Hungary

Biesterfeld Special Chemicals Hungary Ltd.  
E-Mail: l.vereckei@biesterfeld.hu  
www.biesterfeld.hu

### Italy

Pharma Cosm Polli srl  
E-Mail: info@pharmacosm.it  
www.pharmacosm.it

### Poland

Biesterfeld Polska Sp.z.o.o.  
E-Mail: r.borzynska@biesterfeld.com.pl  
www.chemia.biesterfeld.com.pl

### Romania

Biesterfeld Spezialchemie Romania S.R.L.  
E-Mail: cmicu@biesterfeld.ro  
www.biesterfeld-spezialchemie.ro

### Spain

Comercial Quimica Jover, S.L.  
E-Mail: comercial@cqjover.com  
www.cqjover.com

### Sweden/Finland

Bionord AB  
E-Mail: lena@bionord.se  
www.bionord.se

### Switzerland

Rahn AG  
E-Mail: schulerg@rahn-group.com  
www.rahn.ch

## Asia/Pacific

### Iran

Tooska-E-Khorasan Trading Co.  
E-Mail: hrt@tooskaco.com  
www.tooskaco.com

### Israel

Efal chemical industries ltd.  
E-Mail: roni@efal.com  
www.efal.com

### Korea

HANA Trading Company  
E-Mail: Hoffnung@hitel.net

### Phillippines

CTC Far East Phils. Inc.  
E-Mail: faith@ctcfareastphils.com  
www.ctc-group.com

### Thailand

Adinop Co. Ltd.  
E-Mail: mail@adinop.co.th  
www.adinop.co.th

### Australia/New Zealand

RejuvaCare  
E-Mail: smorse@rejuvacare.com.au  
www.rejuvacare.com.au

## Americas

### Argentina/Brazil

nordest nova s.a..  
E-Mail: sergio.engrassi@nordest-nova.com  
www.nordest-nova.com

### USA

Kinetik Technologies, Inc.  
E-Mail: chj@kinetiktech.com  
Web: www.kinetiktech.com

### Chile

Maprin Representaciones Ltda.  
E-Mail: JCroxatto@Maprin.cl

### Colombia

Cromaroma Ltda  
E-Mail: cromaroma@etb.net.co

## Africa

### South Africa

Meganede  
E-Mail: megan.jones@meganede.com  
www.meganede.com

## drstraetmans

Dr. Straetmans Chemische Produkte GmbH

Merkuring 60-62 · D-22143 Hamburg  
Phone: +49 40-66 93 56 0 · Fax: +49 40-66 93 56 310

email: info@dr-straetmans.de · www.dr-straetmans.de